

**2021 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

**ALABAMA POWER COMPANY
PLANT GASTON
ASH POND**

January 31, 2022

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This 2021 *Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Gaston Ash Pond* has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D), ADEM Admin. Code r. 335-13-15, and Part E of ADEM Administrative Order No. 18-095-GW, under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.



1/31/2022

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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2021 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2021 semi-annual assessment groundwater monitoring activities at the Plant Gaston Ash Pond and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). Semi-annual assessment monitoring and associated reporting for Plant Gaston Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6). Additionally, to streamline and provide more thorough reports to ADEM, APC requested approval to combine the information provided in the Semi-Annual Progress Reports described in Part E of AO No. 18-095-GW into the Semi-Annual Groundwater Monitoring and Corrective Action Reports on March 15, 2021.

The Semi-Annual Progress Reports have historically been provided to the Department in March and September. ADEM approved this approach and revised timeline for submittals on March 16, 2021. APC will now provide the Department with the combined semi-annual reports in January and July of each year.

The CCR unit began the monitoring period in assessment monitoring pursuant to § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (SSI) of Appendix III constituents over background were identified in the results of the first detection monitoring event, and assessment monitoring was initiated in January 2018. Statistically significant levels (SSL) of Appendix IV parameters above groundwater protection standards (GWPS) were identified while in assessment monitoring. Consequently, an assessment of corrective measures (ACM) was initiated on January 13, 2019 and completed on June 12, 2019 according to the requirements of § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order No.18-095-GW. The ACM was subsequently submitted to ADEM and posted to the Site's CCR compliance website. A public meeting to discuss the ACM was held on July 6, 2020.

Since the submittal of the ACM, extensive Site investigations have been performed to select effective corrective measures to address SSLs above GWPS. A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-095-GW and submitted to ADEM on November 31, 2021. Subsequently, within 90 days of remedy selection a Corrective Action Groundwater Monitoring Program document presenting the groundwater corrective action remedies to be implemented at the Site will be submitted to ADEM.

SSLs of Appendix IV parameters arsenic, lithium, and molybdenum were detected above GWPS during 2021 semi-annual monitoring events. The following summarizes activities for 2021 groundwater monitoring at the Site:

- Responded to the February 3, 2021 ADEM Semi-Annual Progress and Groundwater Delineation Reports Comments letter on March 5, 2021.
- ADEM approved the Additional Upgradient Monitoring Well Installation Plan to install five additional groundwater monitoring wells on January 8, 2021.
- Installed five additional upgradient monitoring wells between February 2, 2021 and March 2, 2021. Upgradient background wells (GN-AP-MW-38 through GN-AP-MW-42) were installed on the opposite side of the Coosa River, hydraulically disconnected from downgradient flow away from the Gaston Ash Pond, and spatially distanced to capture the maximum natural variability.
- Developed and sampled the five additional upgradient background wells (GN-AP-MW-38 through GN-AP-MW-42) between March 22, 2021 and April 13, 2021.
- Submitted the Semi-Annual Remedy Selection and Design Progress Report on June 8, 2021.
- Completed the first semi-annual assessment groundwater monitoring event between March 29, 2021 and April 16, 2021.
- Received ADEM approval on Alternate Source Demonstration submitted for combined radium 226 + 228 on June 30, 2021.
- Submitted the First Semi-Annual Groundwater Monitoring and Corrective Action Report on July 31, 2021.
- Completed the second semi-annual assessment groundwater monitoring event between September 20, 2021 and October 8, 2021.
- Continued the evaluation of monitored natural attenuation (MNA) and geochemical manipulation as potential groundwater remediation technologies for the Site as described in the Semi-Annual Remedy Selection and Design Progress Reports for the Assessment of Corrective Measures submitted in June 2021 in accordance with § 257.97(a) and ADEM Admin. Code r. 335-13-15-.06(8)(a).
- Submitted a Groundwater Remedy Selection Report on November 31, 2021.

The CCR unit concluded the monitoring period in assessment monitoring and APC will begin implementing the selected groundwater remedies identified in the Groundwater Remedy Selection Report submitted to ADEM in November 2021. The following monitoring-related activities are planned for the CCR unit:

- Completed and submit a Corrective Action Groundwater Monitoring Program document presenting the groundwater corrective action remedies to be implemented.
- Evaluate and plan for remedy implementation, which may include: the collection of additional data, technical research, and development of pilot programs for the remediation of arsenic, lithium, and molybdenum.
- Conduct the first semi-annual assessment monitoring event in the first half of 2022 and submit the semi-annual groundwater monitoring report summarizing the findings to ADEM by July 31, 2022.

An **Executive Summary Table** highlighting program status and significant findings from the most recent annual monitoring period has been included on the next page.

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

Assessment Monitoring Initiated: July 16, 2019
Monitoring Period: January 1 - December 31, 2021
Beginning Status: Assessment
Ending Status: Assessment

Statistical Analysis Results *

Appendix III SSIs

Parameter	Wells
Boron	GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-20
Calcium	GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22
Chloride	GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22
Fluoride	GN-AP-MW-17
pH	GN-AP-MW-16, GN-AP-MW-17
Sulfate	GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22
TDS	GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22

Appendix IV SSLs

Parameter	Wells
Lithium	GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, and GN-AP-MW-20
Molybdenum	GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, and GN-AP-MW-20
Combined Radium 226 + 228	GN-AP-MW-20

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

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

Date Initiated: January 13, 2019
Date Complete: June 12, 2019
Public Meeting Date: July 6, 2020

Groundwater Remedy

Selected During Period: Yes
Selection Date: November 30, 2021
Initiated During Period: No
Ongoing During Period: No

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ABBREVIATIONS

ACM	Assessment of Corrective Measures
ADEM	Alabama Department of Environmental Management
AL	Alabama
APC	Alabama Power Company
APCEL	APC Environmental Laboratory
ASD	Alternate Source Demonstration
ASTM	Alabama Power Company Environmental Laboratory
BGS	below ground surface
CCR	Coal Combustion Residual
CEC	cation exchange capacity
CFR	Code of Federal Regulations
COC	chain of custody
COI	constituents of interest
CSM	conceptual Site model
DO	dissolved oxygen
EPA	United States Environmental Protection Agency
ft	feet
GW	groundwater
GWPS	Groundwater Protection Standard(s)
LCL	Lower Confidence Limit(s)
m	meter
mg/L	milligram per liter
MNA	monitored natural attenuation
MSL	mean sea level
MW-	denotes “Monitoring Well”
NCDS	National Coal Data System
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
pCi/L	picocuries per liter
PE	Professional Engineer
PG	Professional Geologist
PL	prediction limits
PQL	practical quantitation limit
PVC	polymerizing vinyl chloride
QA/QC	quality assurance/quality control
RL	reporting limit
RPD	relative percent difference
SEM	scanning electron microscopy
SM	Standard Method(s)
SSE	selective sequential extraction
SSI	statistically significant increase
SSL	statistically significant level

TAL	Test America, Inc.
TOC	top of casing
TDS	total dissolved solids
USGS	Unites States Geological Survey
UTLs	Upper Tolerance Limits

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2021 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2021 semi-annual assessment groundwater monitoring activities at the Plant Gaston Ash Pond (Ash Pond) and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). Semi-annual assessment monitoring and associated reporting for the Ash Pond is performed in accordance with the monitoring requirements 40 CFR § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

2.0 MONITORING PROGRAM STATUS

The Site is currently in assessment monitoring and evaluating groundwater corrective action alternatives. In accordance with CFR § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Ash Pond during sampling events conducted in 2019. Pursuant to § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4(i), APC completed an ACM in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-095-GW.

An Alternate Source Demonstration (ASD) for combined radium 226+228 was submitted as an appendix in the 2018 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2019. ADEM responded on November 14, 2019, indicating ADEM was in concurrence that the radium could be naturally occurring, but requested additional data or documentation to definitively determine the source of the radium. A further study on the source of the radium at the Ash Pond was initiated in July 2020. An amended Alternate Source Demonstration with data showing a natural source for combined radium 226 + 228 in groundwater at the Site. The completed ASD was submitted along with the 2020 Annual Groundwater Monitoring Report. This ASD documented an alternative source for combined radium 226 +228 exceedances and was approved by ADEM in a correspondence letter dated June 30, 2021.

In accordance with § 257.97(a), ADEM Admin. Code r. 335-13-15-.06(8)(a), and Part C of Administrative Order No. 18-097-GW, Semi-Annual Remedy Selection and Design Progress Report(s) were submitted beginning in December 2019. The semi-annual progress reports were prepared to describe the progress made in selecting and designing a remedy for the Site.

A Groundwater Remedy Selection Report was prepared and submitted in November 2021 to meet the requirements of 40 CFR § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of ADEM Administrative Order AO 18-095-GW. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program will be developed and submitted to ADEM for review.

In accordance with § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6), APC will continue semi-annual assessment monitoring, including all monitoring wells in the certified groundwater monitoring system and any well installed to characterize the horizontal and vertical extent of SSLs

3.0 □ SITE LOCATION AND DESCRIPTION

APC's E.C. Gaston Steam Plant (Plant Gaston) is in Shelby County, Alabama. The physical address is 31972 Alabama Highway 25, Wilsonville, AL 35186. Plant Gaston lies in Section 1, Township 21 South, Range 1 East, Sections 5 and 6, Township 21 South, Range 2 East, and Sections 31 and 32, Township 20 South, Range 2 East data are based on visual inspection of USGS topographic quadrangle maps and GIS maps (USGS, 1980, 1982a, 1982b, 1983).

The Ash Pond is located south-southwest of the main plant along the Coosa River. **Figure 1, Site Location Map**, depicts the location of the Plant and Ash Pond with respect to the surrounding area.

3.1 □ PHYSICAL SETTING

Plant Gaston's topography is characterized by a flat valley adjacent to the Coosa river. Elevations typically range from 400 to 600 feet above mean sea level (MSL) in the Coosa Valley district of the Valley and Ridge physiographic province. The Coosa Valley extends approximately 20 miles (Sapp and Emplainscourt, 1975). Local topography is characterized by moderate relief with elevations ranging from approximately 395 MSL along the eastern plant boundary to approximately 530 feet MSL at a hilltop in the southwestern portion of the plant. **Figure 2, Site Topographic Map**, provides the topography of the Site.

3.2 □ SITE GEOLOGY AND HYDROGEOLOGY

Plant Gaston is located in the Coosa Valley district of the Valley and Ridge Physiographic Province of central Alabama. The geologic units on the property have been folded and faulted at various intervals, and several faults consisting of low-to-high angle thrust faults and some normal faults are present. Fault sets trend obliquely to one another in the northeastern portion of the plant, resulting in a series of imbricate thrust slices of Fort Payne chert, Parkwood and Floyd shales, and Newla limestone (Frings, 1980).

The plant is on a portion of the Valley and Ridge province known as the Coosa deformed belt, which is a long, sinuous, structurally complex zone that can be subdivided laterally into three segments by two lateral offsets. (GSA, 2010b) The Coosa deformed belt is situated on the Yellowleaf thrust sheet, which is a shallowly detached structural complex with small-scale, commonly isoclinal parasitic folding (McIntyre, *et al.*, 2010). Two lateral offsets subdivide the belt, the Harpersville offset and the Reeds Mill offset. The Harpersville offset is located on the southwest end of the Coosa deformed belt and lies just northeast of the plant.

The boundaries of the Coosa deformed belt are delineated by the Coosa synclinorium to the north and the Pell City thrust fault to the south. Most structures in the belt trend northeast-southwest, although a northwest-southeast trend is encountered in the plant area. Imbricate thrust slices of sedimentary Paleozoic rocks comprise the geological material of the belt (Frings, 1981). The area is underlain by a structurally complex Paleozoic sequence of sedimentary rocks that range from Cambrian to Mississippian in age. Carbonate rocks comprise the bulk of the Cambrian and Ordovician rocks, and cherty limestone, sandstone, and shale comprise the Mississippian-age units. Also present in some portions of the plant is a thin unit of Devonian-age sandstone or shale.

Near the Ash Pond, the shallow subsurface bedrock geology is composed entirely of dolomites of the Knox Group. Boring logs from various on-Site investigations indicate that the Ash Pond is underlain by 11 to 63-foot-thick layer of residual clay, mainly formed by the in-situ weathering of the underlying Cambrian-Ordovician-age Knox dolomite. The actual thickness of the natural overburden may be lower than 63 feet, since fill and embankment material were used around the periphery of the Ash Pond. At the Site, the Knox dolomite is characterized as a light to medium gray, fine-grained dolostone with bedded chert.

Evidence of faulting was not observed in core samples and no faults have been mapped underneath the Ash Pond. A small splay thrust fault has been mapped in the area (Szabo, 1969, Frings, 1981). This splay fault has been interpreted to cross the river near the location of the coal pile and trends to the northwest approximately 500 to 1,500 feet to the north of the Ash Pond. Locally, this splay fault marks the transition from the older Knox dolomite to the Pennsylvanian-aged Parkwood Formation.

Figure 3, Site Geologic Map, illustrates the surface geology at the Site and neighboring areas. **Figure 4a Geologic Cross-Section A-A'**, **Figure 4b Geologic Cross-Section B-B'**, and **Figure 4c Geologic Cross-Section C-C'**, provide an illustration of well screen intervals with respect to stratigraphy and elevation at the Site

3.2.1 □ Uppermost Aquifer

The Valley and Ridge aquifer system, found in the Coosa, Cahaba, Birmingham-Big Canoe, and Murphrees Valleys, includes the Weisner Formation, Shady Dolomite, Conasauga Formation, Copper Ridge and Chepultepec Dolomites, and the Longview, Newala, Lenoir, and Little Oak Limestones. In some areas, the Knox Group includes Copper Ridge, Chepultepec, Longview, and Newala united as one group. This aquifer system includes the Ketona, Brierfield, and Bibb Dolomites in Shelby County. Other rock units of Cambrian to Devonian age are included within the Valley and Ridge aquifer system, due to the fact they do

not form effective barriers to ground water movement among permeable units of the system. However, these other units are not significant sources of ground water (Kopaska-Merkel *et al.*, 2005).

At the Site, the uppermost aquifer consists of Knox dolomite. Wells were generally screened in fractured or weathered intervals of Knox dolomite, where permeability is enhanced. Depths to these intervals are highly variable at the Site and range from 35 to nearly 125 feet below ground surface (BGS) excluding delineation wells.

3.2.2 □ Flow Interpretation

The local groundwater flow pattern at the Site is generally towards the north-northwest, west, north-northeast, and east. A topographic high directly to the south of the pond forms a localized groundwater divide and provides space for upgradient locations. Groundwater flow in these areas is towards the Plant Gaston rim ditch located along the boundary of the Ash Pond. Groundwater flow at the Site is accomplished via fractured flow and other secondary discontinuities within the rock fabric such as weathered zones and bedding planes.

3.3 □ GROUNDWATER MONITORING SYSTEM

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

3.3.1 □ Monitoring Wells

The detection and compliance groundwater monitoring network consists of 20 monitoring wells installed around the perimeter of the Ash Pond and 5 additional upgradient wells installed on the adjacent side of the Coosa River east-southeast of the Ash Pond. Horizontal and vertical delineation wells were added in three phases of delineation beginning in late 2018. Monitoring and delineation well locations are presented in **Figure 5, Monitoring Well Location Map..**

3.3.1.1 □ Upgradient Wells

Data used to establish background water quality or selection of upgradient wells include (1) review of groundwater elevation data and potentiometric surface contour maps to determine groundwater flow direction and (2) a screening of Appendix III CCR indicator parameters for apparently elevated concentrations of indicator parameters. In 2019, Ash Pond closure activities necessitated the abandonment of GN-AP-MW-2 located southwest of the Ash Pond. If an upgradient well is abandoned due to pond closure activities or by an unforeseen circumstance, the historical data from that well will remain in the upgradient data pool and therefore, the well remains part of the upgradient network by legacy. Data collected from GN-AP-MW-2 will continue to be used for statistical analysis for the Site. Monitoring well location GN-AP-MW-3 will serve as upgradient background monitoring location for the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the Site.

A plan for the installation of additional upgradient well locations was submitted to ADEM for review on November 20, 2020 and approved on January 8, 2021. These potential upgradient wells were installed east-southeast of the Ash Pond in February 2021. Suitability of these well locations as viable background or upgradient will be evaluated as described in the Site Groundwater Monitoring Plan (April 2020, August 2020). A well installation report containing boring and well construction logs is included as **Appendix A, Well Installation Report**.

Upgradient and potential upgradient wells were generally installed across middle sections of the Knox Dolomite. The lone exception is potential upgradient well location, GN-AP-MW-39, which is interpreted to be installed across a structural contact and the metasedimentary Wash Creek Slate unit. **Table 1a, Compliance Monitoring Well Network Details** summarizes well construction details for upgradient and potential upgradient monitoring well locations.

3.3.1.2 □ Downgradient Wells

Monitoring well locations GN-AP-MW-4 through GN-AP-MW-22 are used as downgradient locations for the Ash Pond. Downgradient locations are located west, north, and east of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the Site. Downgradient wells were installed across upper and middle sections of the Knox Dolomite. Individual screened horizons were selected based upon water availability, groundwater recharge rates, and or guided by surficial geophysical methods to target potential preferential flow paths. **Table 1a** summarizes well construction details for downgradient monitoring well locations.

3.3.1.3 □ Delineation Wells

Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-095-GW, additional monitoring wells were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring. Delineation occurred in three distinct phases beginning in December 2018 and ending in March 2020. Delineation wells were installed across upper, middle, and lower Knox intervals to assess potential impacts. **Table 1b, Delineation Well Network Details** summarizes well construction details for delineation wells installed since December 2018. Additionally, delineation wells are identified on **Figure 5** with distinct symbology to represent horizontal or vertical delineation. All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program.

3.3.1.4 □ Monitoring Well Replacement and Abandonment

During 2021, no monitoring well replacement or abandonment activities occurred. **Table 1c, Abandoned Well Network Details** provides a list of monitoring wells previously abandoned and summarizes their historical well construction details and design purpose.

3.4 □ GROUNDWATER MONITORING HISTORY

In accordance with § 257.94(b) and ADEM Admin. Code r. 335-13-15-.06(5)(b), eight independent samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV prior to October 17, 2017. Background groundwater samples were collected over the period of March 2016 to June 2017. Semi-annual groundwater monitoring was initiated at the Ash Pond in August 2017.

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

Statistical evaluations of 2018 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS, and the Site entered Assessment of Corrective Measures. Pursuant to 40 CFR §257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-095-GW, additional monitoring wells (**Table 1b, Figure 5**) were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring in two phases of groundwater investigations between

December 2018 and June 2020. These wells, along with the compliance monitoring well network, are sampled semi-annually.

Delineation wells installed at the Site have been sampled concurrently with the compliance monitoring well network beginning with the first semi-annual sampling event in February 2020. However, occasionally, additional data collection has occurred independent of routine compliance sampling events to support continuing assessment activities at the Site (e.g., Phase III delineation sampling).

3.4.1 □ Available Monitoring Data

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

3.4.2 □ Historical Groundwater Flow

Historical groundwater elevations and potentiometric surface maps show that groundwater flow patterns are consistent across monitoring events and as described in **Section 3.2.2**. As Ash Pond closure activities progress over the years and upon completion of closure, groundwater elevations will likely display variability representative of changing Site hydrodynamics and eventually, a new set of equilibrium conditions. As this timeline progresses, groundwater elevations and trends will be qualitatively reviewed against this historical data set.

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

3.4.3 □ Monitoring Variances

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

1. □ Retains boron as an Appendix III detection monitoring parameter and excludes it as an Appendix IV assessment monitoring parameter.

2. □ Authorizes the use of Federally-published GWPS of 0.006 milligrams per liter (mg/L) for cobalt, 0.015 mg/L for lead, 0.040 mg/L for lithium, and 0.100 mg/L for molybdenum in lieu of background where those levels are greater than background levels.

3.5 □ GROUNDWATER SAMPLING AND ANALYSIS

Site compliance wells are sampled semi-annually between: (1) late winter – mid spring and (2) early to late fall. The temporal spacing between sampling events is sufficient to ensure that sampling events yield independent groundwater samples and generally, represent different climatic or meteorological seasons which often foster a degree of natural variability in groundwater quality.

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

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

3.5.1 □ Groundwater Sample Collection

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

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

- □ 0.2 standard units for pH.

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

During purging and sampling, an AquaTroll instrument was used to monitor and record field parameters. Once stabilization was achieved, samples were collected and submitted to the laboratory following standard chain-of-custody (COC) protocol. Field data recorded in support of groundwater sampling activities for the monitoring events are included in **Appendix D, Laboratory and Field Records**.

3.5.2 Sample Preservation and Handling

Groundwater samples were collected within the designated size and type of laboratory-supplied containers required for specific parameters. Sample bottles were pre-preserved by the laboratory. Where temperature control was required, samples were placed in an ice-packed cooler and cooled to less than 6 °C immediately after collection. Blue ice or other cooling packs were not used for cooling samples. An ice-packed cooler was on hand when samples were collected.

3.5.3 Chain of Custody

A chain-of-custody (COC) record was used to track sample possession from the time of collection to the time of receipt at the laboratory. All samples were handled under strict COC procedures beginning in the field. COC records are included with the analytical laboratory reports included in **Appendix D**.

3.5.4 Laboratory Analysis

Laboratory analyses were performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama and Pace Analytical Services, LLC (Pace). Both APCEL and Pace are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. **Table 2, Monitoring Parameters and Reporting Limits**, lists assessment monitoring constituents analyzed from Site groundwater samples. Laboratory analytical data reports for the monitoring events are presented in **Appendix D**.

3.5.5 □ Monitoring Period Sampling Events

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f), the following describes monitoring-related activities performed during the preceding year. Semi-annual Assessment Monitoring sampling events occurred in March-April 2021 and September-October 2021.

The first semi-annual assessment monitoring event took place between March 29, 2021 and April 16, 2021. A groundwater monitoring report summarizing data and activities from semi-annual sampling event 1 was submitted to the Department in July 2021. The second semi-annual assessment monitoring event took place between September 20, 2021 and October 8, 2021.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during each Assessment Monitoring event. All groundwater sampling activities were conducted by APC Field and Water Services. Pace Analytical Services performed the laboratory analyses of Radium-226 and Radium-228 (reported combined). APCEL performed the remaining Appendix III and Appendix IV analyses. Analytical data from the groundwater monitoring events is included as **Appendix D** in accordance with the requirements of § 257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(f)3.

4.0 □ GROUNDWATER ELEVATIONS AND FLOW

During the first semi-annual sampling event, groundwater elevations ranged from 397.04 to 431.37 feet NAVD88 (feet above reference 1988 North American Vertical Datum). **Figure 6A, Potentiometric Surface Contour Map (March 29, 2021)** depicts groundwater elevations and inferred groundwater flow direction from higher elevation to lower.

During the second semi-annual sampling event, groundwater elevations ranged from 395.85 to 429.35 feet NAVD88 (feet above reference 1988 North American Vertical Datum). **Figure 6B, Potentiometric Surface Contour Map (September 21, 2021)** depicts groundwater elevations and inferred groundwater flow direction from higher elevation to lower.

As shown on **Figures 6A** and **6B**, groundwater generally flows radially away from the Site with some flow toward the Site coming from the hillside to the south. Also as shown on **Figures 6A** and **6B**, there is an upward vertical gradient from wells installed at deeper intervals to those installed at more shallow intervals along the river side of the Ash Pond. This implies that groundwater is flowing vertically upward to more shallow intervals and discharging to the Coosa River. This upward vertical gradient appears to occur between Lower Knox and Middle Knox intervals as well as Middle Knox to Upper Knox intervals. The presence of vertical gradients demonstrates varying degrees of hydraulic confinement between Knox Dolomite intervals beneath the Site.

Potentiometric surfaces also show that groundwater flow proximal to recently installed and potential upgradient locations are generally towards the west and the Coosa River. This demonstrates that the Coosa River is a groundwater flow divide, and hydraulically, supports an upgradient designation for wells GN-AP-MW-38 through GN-AP-MW-42. Recent groundwater elevations for the Site have been tabulated and included in **Table 3, Recent Groundwater Elevations Summary**.

4.1 □ GROUNDWATER FLOW VELOCITY CALCULATIONS

Because the geology at the Ash Pond is not homogeneous or isotropic with respect to groundwater flow, groundwater velocity calculations using derivations of Darcy's Law are not applicable to groundwater at the Site. The hydrogeologic characteristics of fractured rock typically produce preferential groundwater flow paths, so groundwater velocity is much more variable than in uniform porous media such as sand. During monitoring well installation, multiple techniques were used to successfully intercept groundwater flow paths with the monitoring wells located around the Ash Pond. These flow paths correspond to

weathered zones or intervals of more concentrated or unhealed fractures. Therefore, groundwater flow velocity at the Site cannot be accurately quantified using existing Site data. Slug testing provided horizontal hydraulic conductivities for the uppermost aquifer between 4.36×10^{-4} cm/sec and 0.022 cm/sec with an average of 6.02×10^{-3} cm/sec.

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

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

5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

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

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

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where the relative percent differences are below 20%, the difference is considered acceptable and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4A, Relative Percent Difference Calculations**, provides the relative percent differences for sample and sample duplicates during the second semi-annual monitoring event of 2021. RPD calculations for the first semi-annual event are located in **Appendix E, Lab Data Validation – First Semi-Annual Monitoring Event**. All RPDs were below 20% for 2021 sampling events.

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

Based on this data validation step, nineteen (19) chromium results have qualifiers modified from J to (+) U*, and the corresponding MDL value, updated to match the blank concentration detected on the same date. **Table 4C, Field QC: Validation Results (Blanks)** provides a summarized list of data validation flags that could be applied to Site data during the second semi-annual monitoring period. Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation and or (2) constituents flagged are not Site COI. The extent of trace chromium detections in blanks can be explained by a low MDL value of 0.000203 mg/L.

5.2 □ STATISTICAL METHODOLOGY AND TESTS

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

5.2.1 □ Appendix III Evaluation

Interwell prediction limits, combined with a 1-of-2 verification strategy, were constructed for boron, calcium, chloride, fluoride, pH, sulfate, and TDS. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. If the most recent sample exceeds its respective background statistical limit, an initial statistically significant increase (SSI) is identified.

Groundwater Stats Consulting demonstrated that these test methods were appropriate in the October 2017 Statistical Analysis Plan, which was updated in the September 2019 data screening evaluation and also, included in the revised Statistical Analysis Plan (August 2020). Time series plots were used to screen proposed background data for suspected outliers, or extreme values that would result in limits that are not

conservative from a regulatory perspective. Suspected outliers at all wells for Appendix III parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database.

The following adjustments were made:

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

5.2.2 Appendix IV Evaluation

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

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

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

- (1) The maximum contaminant level (MCL) established under CFR §141.62 and 141.66.

(2) Where an MCL has not been established:

(i) Cobalt 0.006 mg/L.

(ii) Lead 0.015 mg/L.

(iii) Lithium 0.040 mg/L.

(iv) Molybdenum 0.100 mg/L.

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

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

5.3 STATISTICAL EXCEEDANCES

Analytical data from the 2021 semi-annual monitoring events were statistically analyzed in accordance with the Professional Engineer (PE)-certified Statistical Analysis Plan, published October 2017 and revised August 2020, by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

5.3.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix F, Statistical Analysis**, Appendix III constituents have not returned to background levels.

5.3.2 Appendix IV Constituents

Table 5, Summary of Background Levels and Groundwater Protection Standards, summarizes the background limit established at each monitoring well and the GWPS. A summary table of the statistical limits accompanies the prediction limits in **Appendix F**.

The following subsections describe statistical exceedances during the semi-annual monitoring events of 2021.

5.3.2.1 □ First Semi-Annual Groundwater Monitoring Event

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

- □ GN-AP-MW-15R: Lithium, Molybdenum.
- □ GN-AP-MW-16: Lithium, Molybdenum.
- □ GN-AP-MW-17: Lithium, Molybdenum.
- □ GN-AP-MW-20: Combined Radium 226+228, Lithium, Molybdenum.

Table 6, First Semi-Annual Monitoring Event Analytical Summary, provides a summary of all detected constituents for the first semi-annual sampling event.

5.3.2.2 □ Second Semi-Annual Groundwater Monitoring Event

During the second semi-annual monitoring event, statistical analysis of Appendix IV data incorporating limits defined in the 2019 ADEM Variance (section 3.3.4) identified the following SSLs over GWPS at the listed downgradient wells:

- □ GN-AP-MW-15R: Molybdenum.
- □ GN-AP-MW-16: Lithium, Molybdenum.
- □ GN-AP-MW-17: Lithium, Molybdenum.
- □ GN-AP-MW-20: Combined Radium 226+228 (ASD), Lithium, Molybdenum.

As described in **Section 2**, an ASD documenting an alternative source for combined radium 226 + 228 was submitted along with the 2020 Annual Groundwater Monitoring and was subsequently approved by ADEM on June 30, 2021. This ASD addressed elevated concentrations observed in downgradient well GN-AP-MW-20 and therefore, elevated combined radium 226 + 228 concentrations observed in both semi-annual sampling events of 2021 are treated as an exceedance un-related to the facility.

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

5.3.2.3 Delineation Wells

Limited groundwater analytical data is available for delineation wells installed at the Site, so groundwater quality is simply compared to the GWPS. A review of analytical data derived from delineation wells revealed the following GWPS exceedances during the first semi-annual sampling event:

- GN-AP-MW-16V: Lithium, Molybdenum.
- GN-AP-MW-17SV: Lithium, Molybdenum.
- GN-AP-MW-17V: Combined Radium 226 + 228, Lithium, Molybdenum.
- GN-AP-MW-20SV: Molybdenum.
- GN-AP-MW-20V: Lithium, Molybdenum.
- GN-AP-MW-28H: Combined Radium 226+228, Lithium, Molybdenum.
- GN-AP-MW-29H: Combined Radium 226+228, Lithium, Molybdenum.
- GN-AP-MW-32V: Lithium,
- GN-AP-MW-33V: Lithium
- GN-AP-MW-34V: Molybdenum.
- GN-AP-MW-37V: Lithium, Molybdenum.

A review of analytical data derived from delineation wells revealed the following GWPS exceedances during the second semi-annual sampling event:

- GN-AP-MW-16V: Lithium, Molybdenum.
- GN-AP-MW-17SV: Lithium, Molybdenum.
- GN-AP-MW-17V: Combined Radium 226 + 228, Lithium, Molybdenum.
- GN-AP-MW-20SV: Molybdenum.
- GN-AP-MW-20V: Lithium, Molybdenum.
- GN-AP-MW-28H: Combined Radium 226+228, Lithium, Molybdenum.
- GN-AP-MW-29H: Combined Radium 226+228, Lithium, Molybdenum.
- GN-AP-MW-32V: Lithium.
- GN-AP-MW-33V: Arsenic, Lithium.
- GN-AP-MW-34V: Molybdenum.
- GN-AP-MW-37V: Lithium, Molybdenum.

Details regarding the installation and sampling of these wells, and future proposed actions as a result of these exceedances, were submitted to ADEM in a Groundwater Investigation Report on May 13, 2019 and subsequent updates in September 2019, March 2020, and September 2020.

To address SSLs at the Site, an ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic, molybdenum, and lithium in groundwater at the Site in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-095-GW. The ACM was submitted to ADEM and placed in the operating record on June 12, 2019. Since the completion of the ACM, additional investigations have culminated in the Groundwater Remedy Selection Report submitted in November 2021. This report documents in more detail selected remedies, positive impacts of pond closure, expected or potential performance, and high level discussion of implementation.

6.0 □ GROUNDWATER ASSESSMENT

As required by Part E of the Order (AO 18-095-GW) and correspondence from ADEM (March 2021), this report provides an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018). The primary purpose of this plan and subsequent phases of work were to identify the horizontal and vertical extent of groundwater impacts defined by EPA Appendix IV groundwater protection standards.

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

6.1 □ CHRONOLOGY OF DELINEATION ACTIVITIES

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

6.1.1 □ Delineation Wells

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

Phase I – Groundwater Investigation (November 2018 – March 2019)

Phase I was conducted between the dates of November 29, 2018 to March 8, 2019. **Table 1b** and **Figure 5**, present details of the CCR monitoring well network and locations of on-Site delineation wells. The following summarizes all activities that were completed during Phase I of groundwater delineation at the Site:

- Installation and sampling of five vertical delineation wells (GN-AP-MW-16V, GN-AP-MW-17V, GN-AP-MW-17SV, GN-AP-MW-20V, and GN-AP-MW-20SV) generally offset from the eastern waste boundary compliance wells and screened in the Unit 2 Knox Aquifer.
- Utilization and sampling of one previously installed deep piezometer (GN-AP-MW-23D) for vertical delineation southwest of the Ash Pond.
- Installation and sampling of two horizontal delineation wells (GN-AP-MW-28H and GN-AP-MW-29H) proximal to the eastern property boundary installed in the Unit 2 Knox Aquifer and in the direction of groundwater flow away from the facility.
- Utilization and sampling of three previously installed shallow piezometers (GN-AP-MW-23S, GN-AP-MW-26, and GN-AP-MW-27) for horizontal delineation west of the Ash Pond.
- Collected five ash samples for waste characterization analyses from the Plant Gaston Ash Pond.
- Developed the eleven delineation wells between December 10, 2018 and February 18, 2019.
- Collected water samples from the delineation wells and three pre-existing Ash Pond piezometers between December 5, 2018 and March 8, 2019.
- Submitted a Semi-Annual Progress Report documenting groundwater investigation activities on March 30, 2019.
- Submitted to ADEM a Groundwater Investigation Report to the Department on May 13, 2019. This report recommended a second phase of groundwater investigation to complete delineation of groundwater impacts as required by Part B of the Order.
- Submitted an Assessment of Corrective Measures for the Ash Pond to the Department on July 11, 2019 as required by Part C of the Order.
- Submitted a Phase II – Groundwater Delineation Plan to the Department on August 15, 2019. This plan documented planned activities associated with proposed Phase II delineation efforts.
- On December 30, 2019, provided the Department with a response to comments received from the Department on November 14, 2019.

Phase II – Groundwater Investigation (August 2019 – October 2019)

Following a review of data obtained from the Phase I Investigation, additional groundwater investigation was proposed to the Department in a Phase II Delineation Plan submitted August 15, 2019. Phase II was

conducted to complete vertical delineation along the eastern boundary of the Site. Phase II was conducted between the dates of August 28, 2019 to October 24, 2019. The following summarizes all activities that were completed during Phase II of groundwater delineation at the Site:

- Installed four vertical delineation wells (GN-AP-MW-31V, GN-AP-MW-32V, GN-AP-MW-33V, and GN-AP-MW-34V) and one horizontal delineation well (GN-AP-MW-30H) between August 28, 2019 and September 21, 2019.
- Completed semi-annual assessment groundwater sampling event between September 16, 2019 and September 25, 2019.
- Submitted a Semi-Annual Progress Report documenting groundwater investigation activities on September 30, 2019.
- Developed four delineation wells between October 15, 2019 and October 18, 2019. Well GN-AP-MW-31V did not produce sufficient water for development.
- Sampled the four delineation wells between October 21, 2019 and October 24, 2019. Delineation well GN-AP-MW-31V did not produce sufficient water to be sampled and was designated as a water level only piezometer.
- Abandoned 2 monitoring wells (GN-AP-MW-1, and GN-AP-MW-2) located south of the Ash Pond as needed due to pond closure activities.

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

Following a review of data obtained from the Phase I and II Investigations, additional groundwater investigation was necessary to vertically delineate lithium and molybdenum southeast of the ash pond. Phase III was conducted between the dates of February 15, 2020 to April 30, 2020. The following summarizes all activities that were completed during Phase III of groundwater delineation at the Site:

- Installed four deep vertical delineation wells (GN-AP-MW-31VR, GN-AP-MW-35V, GN-AP-MW-36V, and GN-AP-MW-37V) between February 15, 2020 and March 28, 2020. Delineation well GN-AP-MW-31VR replaced previously installed GN-AP-MW-31V that did not produce sufficient water for sampling.
- Completed semi-annual assessment groundwater sampling event between February 17, 2020 and February 28, 2020.

- Submitted a Semi-Annual Progress Report documenting groundwater investigation activities on March 30, 2020.
- Developed the four delineation wells between April 7, 2020 and April 15, 2020. Partial development via air-lifting was also employed while the drilling team was on-Site in March 2020.
- Sampled the four delineation wells between April 29, 2020 and April 30, 2020.

6.2□ NATURE AND ESTIMATED QUANTITY OF RELEASE

Part B of the Order requires collecting data on the nature and estimated quantity of material released. To collect data regarding the nature of the source and estimated quantity of material released leachability testing of 5 ash samples and sampling of ash pore-water at 3 locations was conducted. Leachability testing was conducted for EPA Resource and Recovery Act (RCRA) heavy metals, while ash pore-water was sampled for all EPA Appendix III and IV constituents. Groundwater quality data is compared to source water and leachate composition to provide a basis for evaluating the degree to which the source area has contributed constituents to groundwater.

6.3□ DISCUSSION OF DELINEATION RESULTS

Three phases of delineation field activities were performed at the Plant Gaston Ash Pond. Successive, deeper vertical delineation wells were installed proximal to the river on the eastern side of the Ash Pond to continue the vertical delineation of lithium and molybdenum during Phase II and Phase III.

Prior to the installation of compliance monitoring wells, an ERI study was conducted to characterize potential preferential flow pathways through the rock mass and aid in the determination of well location targets and well screen intervals (depths). ERI is a non-invasive means of imaging subsurface features and materials. ERI results are presented as 2D transects or cross-sections that profile the electrical resistivity of subsurface materials. Lower resistivity zones can correspond to rock discontinuities, weathered layers/zones, and or groundwater saturation. These ERI results were also used to help guide the depth and extent of vertical delineation.

6.3.1□ Arsenic Delineation

Figure 7A, Arsenic Concentration Call-Out Map shows arsenic concentrations from the most recent sampling event. As indicated on this figure, arsenic concentrations exceed the GWPS at a single vertical delineation well, GN-AP-MW-33V, located east of the Ash Pond and screened across a middle to lower

interval of the Knox Dolomite. Prior to the most recent sampling event, GN-AP-MW-33V had an arsenic concentration range of 0.004 to 0.011 mg/L, but during the most recent sampling event rose from 0.009 to 0.021 mg/L. This increase in arsenic correlated positively with a sharp increase in DO (0.49 to 1.14 mg/L) and an increase in iron (0.08 to 0.15 mg/L) and correlated negatively with CCR-indicator parameters such as boron, calcium, chloride, and conductivity which all showed a decrease from the previous sampling event. Negative correlations with CCR indicator parameters imply an alternate source or a sequestered source of arsenic. Given the positive correlation with DO and iron, the most plausible mechanism appears to be the oxidation of iron minerals and corresponding release of sorbed-arsenic near the well screen interval. This mechanism could be related to nearby dewatering operations associated with on-going closure activities and thus, represent a temporary and transient condition. **Figure 8A, Arsenic Concentrations Along Geologic Cross-Section B-B'** show the vertical and lateral extent of arsenic in this area. This figure demonstrates that arsenic is delineated and also supports a localized source of arsenic.

Historically, arsenic has exceeded the GWPS at only compliance well GN-AP-MW-17. Arsenic concentrations have been slowly trending downward since January 2018 – a trend that was preceded by shift in ORP conditions from strongly positive (oxidizing) to negative (reducing) between June 2017 and January 2018. Two out of the last three sampling events, including the most recent, have shown arsenic concentrations below GWPS in well GN-AP-MW-17. As shown on **Figure 8A**, arsenic has been successfully delineated in the vertical extent. GN-AP-MW-17 is located within 10 to 20 feet of the Coosa river and therefore, arsenic delineation to the southeast was not feasible.

As shown on **Figures 5, 7A, and 8A**, numerous delineation wells were installed lateral to the northeast and southwest to assess potential width of impacts to groundwater. These lateral or horizontal delineation wells provided arsenic concentrations at low-level, trace or estimated concentrations below the GWPS. The data gathered from these lateral wells supports the interpretation of a discrete fracture as the source or transport mechanism for arsenic.

6.3.2 □ Lithium Delineation

As shown on **Figure 7B, Lithium Concentration Call Out Map**, lithium concentrations over GWPS have been limited to the southeastern portion of the Site and in the zone defined by ERI as having potential for preferential groundwater flow. Similar to the arsenic discussions above, further horizontal delineation was not feasible due to physical limitations and the inability to access additional drilling locations.

Lateral delineation to the northeast and southwest shows that lithium concentrations over the GWPS extend from an area between GN-AP-MW-16 to GN-AP-MW-15R to the northeast to just southwest of delineation wells GN-AP-MW-34V and GN-AP-MW-35V. To the northeast, wells GN-AP-MW-30H and GN-AP-MW-31VR show successful delineation and to the southwest, compliance well GN-AP-MW-19, demonstrates successful delineation. This can be visualized in both **Figure 7B** and **Figure 8B, Lithium Concentrations Along Geologic Cross-Section B-B'**.

Historically, lithium has exceeded the GWPS at compliance well GN-AP-MW-15R. However, concentrations have dropped steadily and significantly since September 2019. The most recent lithium concentration was below the GWPS. Trends in other CCR indicator parameters show a similar strong decreasing trend in well GN-AP-MW-15R.

Figure 8B shows that the vertical extent of lithium, southeast of the Site, has largely been delineated in the vertical extent. The lone exception is deep vertical delineation well, GN-AP-MW-37V, which exceeds the lithium GWPS by only 0.021 mg/l and historically, has demonstrated concentrations below GWPS. Concentrations and trends in this well will continue to be monitored but at this time no additional vertical delineation in this area is being recommended.

Figure 8B also shows that lithium concentrations are generally the highest between elevations 300 and 360 ft MSL where preferential flow was indicated on geophysical imaging. The 0.04 mg/l contour line presented on **Figure 8B** indicates that lithium concentrations above the GWPS extend from the top of rock (380 to 370 ft MSL) to an elevation of roughly 145 ft MSL. This zone is interpreted to be a vertical geologic structure that allows for preferential migration and agrees strongly with ERI data. The zone between 300 and 360 ft MSL is likely a more weathered or fractured layer of dolomite.

6.3.3 □ Molybdenum Delineation

As shown on **Figure 7C, Molybdenum Concentration Call Out Map**, molybdenum concentrations over GWPS are limited to the southeastern portion of the Site and in the zone defined by ERI as having potential for preferential groundwater flow. Similar to the arsenic and lithium discussions above, further horizontal delineation was not feasible due to physical limitations and the inability to access additional drilling locations to the southeast.

Historically, well GN-AP-MW-5, west of the ash pond has exhibited molybdenum exceedances. However, molybdenum concentrations have decreased below the GWPS and during the most recent sampling event, molybdenum was not classified as an SSL. To the west, previously existing piezometers GN-AP-MW-23S, GN-AP-MW-26, and GN-AP-MW-27 were converted to horizontal delineation wells, and GN-AP-MW-23D to a vertical delineation well, for the purposes of delineating molybdenum proximal to GN-AP-MW-5. These wells are located to the west of the Plant Gaston Ash Pond on APC-owned property.

Historically, downgradient compliance well GN-AP-MW-5, has been the only other well location exhibiting a GWPS exceedance for molybdenum. During the February 2020 sampling event, molybdenum concentrations in well GN-AP-MW-5 decreased well below the GWPS. Historically, concentrations have occurred between 0.35 mg/l and 0.13 mg/l at well GN-AP-MW-5 but have also demonstrated an oscillating, downward trend since January 2018. The February 2020 sampling event provided a concentration of 0.0546 mg/l, and represented the first data point below the GWPS. When looking at recent time series and data, it appears that ash pond closure activities are having a positive impact on reducing COI concentrations. Nearly all appendix III and IV parameters exhibit decreasing trends in well GN-AP-MW-5 with molybdenum falling below GWPS three out of the previous 4 sampling events. DO and ORP exhibit strong negative correlations with molybdenum in well GN-AP-MW-5 indicating that more oxygenated groundwater has led to a decrease in COI concentrations. This could reflect a return to natural groundwater quality in this area of the Site

Molybdenum – Southeast Delineation

Lateral delineation to the northeast and southwest shows that molybdenum concentrations over the GWPS extend from GN-AP-MW-15R to the northeast to just southwest of delineation wells GN-AP-MW-34V and GN-AP-MW-35V. To the northeast, wells GN-AP-MW-30H and GN-AP-MW-31VR show successful delineation and to the southwest, compliance well GN-AP-MW-19, demonstrates successful delineation. This can be visualized in both **Figure 7C** and **Figure 8C, Molybdenum Concentrations Along Geologic Cross-Section B-B'**.

Like lithium, molybdenum in well GN-AP-MW-15R has been trending downward steadily and significantly. This decreasing trend began between April and May of 2019 and has decreased from 0.43 to 0.14 mg/l over that time span. At the current rate of concentration decline, molybdenum will decrease below GWPS by the second semi-annual sampling event of 2022.

Geologic and geochemical data provided on **Figure 8C**, show that molybdenum has also been delineated in the vertical sense to a sufficient degree for remedy selection. This figure shows that molybdenum concentrations are generally the highest between elevations 300 and 360 ft mean sea level (MSL) near southeastern boundary of the Site and nearest to compliance well GN-AP-MW-17. This zone is interpreted to be a vertical geologic structure that allows for preferential migration and agrees strongly with ERI data.

The zone between 300 and 360 ft MSL is likely a more weathered or fractured layer of dolomite. Concentrations appear highest where the potential vertical feature intersect the more weathered/fractured horizontal layer.

Figure 8C also shows that molybdenum concentrations above the GWPS (0.1 mg/L) occur deepest near vertical delineation well GN-AP-MW-37V. The 0.1 mg/l contour line presented on **Figure 8C** indicates that molybdenum concentrations above the GWPS extend from the top of rock (380 to 370 ft MSL) to elevations ranging from 140 ft to 90 ft MSL between wells GN-AP-MW-35V and GN-AP-MW-37V. To the northeast, **Figure 8C** shows that molybdenum exceedances are relatively shallow in comparison, with concentrations above the GWPS, extending down to roughly 300 ft MSL in the vicinity of GN-AP-MW-31VR.

Vertical delineation wells GN-AP-MW-35V and GN-AP-MW-36V show vertical delineation. Vertical delineation well GN-AP-MW-37V exhibited a GWPS exceedance; however, the distribution and extent of molybdenum exceedances in groundwater is established well enough for developing a remedial strategy to address the occurrence.

6.4 □ STATUS OF DELINEATION

Arsenic, lithium, and molybdenum have been horizontally delineated to the extent feasible at the Site. Additional horizontal delineations wells stepped out in the direction of groundwater flow to the southeast are not feasible due to physical limitations.

The vertical extent of impacts have been established and delineated. The lone exception is deep vertical delineation well, GN-AP-MW-37V, which barely exceeds the GWPS for lithium and molybdenum. As shown on **Figures 8B** and **8C**, a sufficient number of vertical delineation wells, geological data, and geochemical data exists to evaluate remedial options southeast of the Site. No additional deeper vertical delineation in the vicinity of GN-AP-MW-37V is currently planned for these reasons. Conditions, concentrations, and trends will continue to be evaluated with respect to this.

6.5 □ GROUNDWATER QUALITY CHANGES AND TRENDS

Important groundwater quality changes or trends have been noted in **Section 6.3**. The key findings include:

- □ Arsenic concentrations in compliance well GN-AP-MW-17 decreased to below GWPS as part of slowly decreasing trend that began between January and April 2018,
- □ Lithium concentrations in compliance well GN-AP-MW-15R decreased to below GWPS as part of strong decreasing trend that began between September 2019 and February 2020,
- □ Molybdenum concentrations in compliance well GN-AP-MW-15R are decreasing towards the GWPS as part of a strong decreasing trend that began between April and May 2019,
- □ Molybdenum concentrations in compliance well GN-AP-MW-5 dropped below the GWPS as part of an oscillating but downward trend that began in January 2018; and
- □ Increase in arsenic concentrations in delineation well GN-AP-MW-33V to a concentration above GWPS.

These changes amount to a 27% reduction in SSLs from historical compliance well SSLs. Many of these downward trends appear to have initiated prior to the start of ash pond closure activities but may have also been reinforced by these activities - namely the halt to sluicing and ash dewatering. Trends and groundwater quality changes will continue to be monitored throughout closure to evaluate assessment needs and to better inform groundwater remedy plans. Time-series illustrating the above trends are presented in **Appendix G, Key Trends in Groundwater Quality**.

7.0 EVALUATION OF GROUNDWATER CORRECTIVE MEASURES

Groundwater remedy selection has occurred in the following two stages: 1) completing an ACM to identify potentially feasible remedies for the Site after the initial determination that GWPSs have been exceeded; and 2) evaluating potential remedies to develop a Site-specific remedy plan.

7.1 REMEDY SELECTION

Since submittal of the ACM in June 2019 (Anchor QEA, 2019), investigation have been performed to select effective corrective measures for COIs in groundwater at the Site. Semi-annual and annual status reports regarding investigation and evaluation have been submitted to the Department and posted to the Site's CCR compliance webpage. Based on investigations and evaluation, the following corrective measures were proposed in the Groundwater Remedy Selection Report submitted in November 2021 to address GWPS exceedances at the Plant Gaston Ash Pond:

- 1) Source control to include dewatering, consolidation, and capping of the Ash Pond;
- 2) Monitored Natural Attenuation (MNA); and,
- 3) Permeation grouting in areas with relatively high permeability

7.1.1 Source Control

The Site will be closed in a manner that controls “the source(s) of releases so as to reduce or eliminate, to the maximum extent feasible, further releases of constituents in Appendix IV to this part into the environment,” as required by 40 CFR § 257.97(b)(3) and ADEM Admin. Code r. 3351315.06(8)(b)3.

Closure of the Site will be accomplished by dewatering, consolidating the footprint to a smaller area, and capping the CCR with a final cover system. The proposed corrective action strategy incorporates the closure of the Site, which will effectively control the source of CCR constituents to groundwater by removing free liquid from the CCR, reducing the area of the Site footprint, and capping the CCR in place to prevent further stormwater infiltration. Specifically, the design for the Site closure calls for dewatering and consolidating the CCR material from the current Site footprint of approximately 269 acres to an area of approximately 193 acres within a diked area. Stormwater management features will be constructed around the perimeter of the consolidated CCR material, along with a final cover consisting of an engineered synthetic turf and geomembrane (APC 2020). Site closure activities began in 2019.

The final cover will be constructed to “control, minimize or eliminate, to the maximum extent feasible, post-closure infiltration” of stormwater into the closed CCR unit, which will mitigate potential releases of COIs to groundwater. The final cover system, at a minimum, will meet or exceed the requirements of 40 CFR § 257.102(d)(3)(ii) and ADEM Admin. Code r. 335-13-15-.07(3)(d)3(ii) (alternative cover system). Current design for the cover is the synthetic ClosureTurf cover system that utilizes a 50-mil linear low-density polyethylene geomembrane overlain by an engineered synthetic turf. The synthetic turf will contain a minimum 1/2-inch sand infill. The permeability of the final cover system will be less than the permeability of the natural subsoils beneath the surface impoundment. Final design will ensure the disruption of the integrity of the final cover system is minimized through a design that accommodates settlement and subsidence, in addition to providing an upper component for protection from wind or water erosion. The final cover system will have a permeability of 10⁻⁵ cm/sec or less (APC 2020). Infiltration will also be impeded by providing sufficient grades and slopes to 1) preclude the probability of future impoundment of water or sediment on the cover system; 2) ensure slope and cover system stability; 3) minimize the need for further maintenance; and 4) be completed in the shortest amount of time consistent with recognized and generally accepted good engineering practices (APC 2020).

7.1.2 □ Monitored Natural Attenuation (MNA)

MNA is a selected remedy for the Gaston Ash Pond. Based on the geochemical investigations, several lines of evidence support multiple attenuating mechanisms, depending upon the COIs. The major attenuating mechanisms include the following:

- □ Sorption on iron oxides (arsenic and molybdenum)
- □ Cation exchange on clays and manganese oxides (lithium)
- □ Precipitation of arsenate and molybdate phases (arsenic and molybdenum, respectively)

Rates of attenuation were determined by results of reactive transport modeling and by extrapolating decreasing trends on the concentration versus time graphs to the GWPS for areas where decreasing trends were observed. For molybdenum, estimated time to achieve GWPSs by MNA is 2 to 35 years. Depending on location, estimated time to achieve GWPSs for lithium by MNA ranges from less than 20 years to approximately 100 years (near GN-AP-MW-17). Though these time frames are reasonable to achieve GWPSs by MNA, permeation grouting is expected to accelerate time to achieve GWPSs, particularly in the area of GN-AP-MW-17. Permeation grouting, which will prevent future migration of COIs away from the facility boundary, is planned for the area near GN-AP-MW-17. During recent sampling events, arsenic concentrations were below the GWPS and are expected to continue to decrease as the selected remedies are

implemented. However, due to short-term perturbations in groundwater flow and geochemistry due to consolidation (moving CCR) and dewatering, temporary increases in COI concentrations may be observed in some wells.

Column studies were performed to assess the ability for the aquifer (soil) to chemically attenuate COIs and help determine the stability of the attenuated COIs. Column studies indicate that arsenic, lithium, and molybdenum are attenuated (sorbed) by aquifer media. The column attenuation capacity was extrapolated to the entire mass of the aquifer downgradient of the consolidated Site but within the property boundary. The extrapolation showed that the aquifer has an attenuating capacity of many more times the mass of arsenic, lithium, and molybdenum requiring attenuation.

Selective sequential extraction (SSE) was performed on samples of well solids (precipitates) and soils used in the column studies to assess the stability of the attenuated COIs and their host minerals. Arsenic, lithium, and molybdenum are expected to remain immobile because they are attenuated primarily in stable mineral phases or occur in areas that will be treated by permeation grouting to prevent impacted groundwater flow beyond the closed pond boundary.

Corrective action performance monitoring consists of two major components: 1) monitoring for sitewide corrective action, which would include MNA and the positive benefits of source control and permeation grouting at the Site scale; and 2) remedial effectiveness monitoring in the areas of grouting. Sitewide monitoring applies to MNA because MNA will be implemented over the entire Site.

7.1.3□ Permeation Grouting

At the Site, the intent of permeation grouting will be to create a low-permeability subsurface wall to impede the flow of impacted groundwater away from the source. The wall is created by filling fractures, bedding planes, and other void spaces in the rock with cement grout. Permeation grouting has been performed successfully at Plant Gaston to improve foundation conditions to enable horizontal drilling for the installation of a natural gas pipeline under the Coosa River. Permeation grouting is proposed along east side of the pond (river side) in the area of groundwater impacts. As described in **Section 6.3**, this area appears to be a structurally mediated preferential flow zone and appears to be a good candidate for permeation grouting. To determine the effectiveness and refine the implementation process of permeation grouting at the Site, a pilot test will be performed for approximately 150 feet in the vicinity of wells GN-AP-MW-17, GN-AP-MW-17V, and GN-AP-MW-17SV, to a depth of approximately 150 feet. A detailed pilot test plan will be prepared prior to implementation of the permeation grouting pilot test. However, the pilot test is

expected to contain the components as described below or similar components. The horizontal and vertical extent of the full-scale permeation grouting program are dependent on further evaluation and the results of the pilot test.

Both low- and high-mobility grout will be utilized in the pilot test program to ensure adequate filling of spaces in the rock and a resulting wall that is as impermeable as possible. The reactive ingredient in both grouts is Portland cement. Low-mobility grout typically contains sand to increase its viscosity, limit its distance of travel, and fill larger spaces in the rock. High-mobility grout does not contain sand, can penetrate smaller spaces (e.g., smaller fractures) in the rock, and will travel greater distances from the grout hole. Other ingredients may be added to the grout to improve its properties and serve as fillers. Any additional additives used in the pilot test program will be determined to be environmentally acceptable based on their safety data sheets and other information. Prior to injection of grout into ground, a test block using the grout mix will be created, and USEPA Method 1315 (monolith leaching test) will be performed on the test block to ensure that the cement grout will not introduce COIs into the rock aquifer.

The major measures of success of a grout wall include permeability reduction within the wall and a lower potentiometric surface on the downgradient side of the wall after grouting. Reduction in groundwater flow will also reduce or eliminate mass flux of COIs away from the closed pond. Slower groundwater travel times should aid MNA because slower travel times allow more time for attenuation mechanisms to operate.

7.1.4 Adaptive Site Management

As applied here, adaptive Site management is a component of the corrective action monitoring program, in which monitoring results are continually evaluated to determine if the system is making progress toward achieving remedy goals. Based on system performance—either achieving goals or not making expected progress—the remedy system may need to be adapted or changed. Adaptation of the system may include ceasing actions no longer necessary or changing the system because it is not performing as expected. The adaptive Site management approach plans for changes at the Site and provides a process to make changes as necessary.

7.2 CORRECTIVE ACTION MONITORING PROGRAM

As required by 40 CFR § 257.98(a) and ADEM Admin. Code r. 335-13-15-.06(9)(a), the owner/operator must implement the groundwater remedy within 90 days of selecting a remedy, including establishing a corrective action groundwater monitoring program. That monitoring program must perform the following

actions: 1) meet the assessment monitoring requirements of 40 CFR § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6); 2) document the effectiveness of the remedy; and 3) demonstrate compliance with the GWPS. A corrective action groundwater monitoring program providing Site-specific remedy monitoring details will be submitted within 90 days of the Groundwater Remedy Selection Report (Anchor 2021).

8.0 SUMMARY AND CONCLUSIONS

Semi-annual assessment monitoring events took place in March-April and September-October 2021. Statistical evaluations of the 2021 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. To address previously identified SSLs, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on November 31, 2021. Focus at the Site now begins to shift towards planning and implementation of remedies along with continued evaluation of assessment and compliance data.

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

- Completed and submit a Corrective Action Groundwater Monitoring Program document presenting the groundwater corrective action remedies to be implemented.
- Evaluate and plan for remedy implementation, which may include: the collection of additional data, technical research, and development of pilot programs for the remediation of arsenic, lithium, and molybdenum.
- Conduct the first semi-annual assessment monitoring event in the first half of 2022 and submit the semi-annual groundwater monitoring report summarizing the findings to ADEM by July 31, 2022.

9.0 REFERENCES

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Tables



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

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-AP-MW-3	Upgradient	Middle Knox Dolomite	33.22911	-86.47461	444.34	447.14	81.6	375.94	365.94	10	9/30/2015
GN-AP-MW-38	Upgradient	Middle Knox Dolomite	33.23268	-86.45639	402.50	404.93	74.4	340.93	330.93	10	2/6/2021
GN-AP-MW-39	Upgradient	Wash Creek Slate	33.23688	-86.4519	413.93	416.71	78.3	348.81	338.81	10	2/22/2021
GN-AP-MW-40	Upgradient	Middle Knox Dolomite	33.23101	-86.4523	411.79	414.32	72.2	352.52	342.52	10	2/17/2021
GN-AP-MW-41	Upgradient	Middle Knox Dolomite	33.23007	-86.45673	404.61	407.28	76.8	340.88	330.88	10	2/7/2021
GN-AP-MW-42	Upgradient	Middle Knox Dolomite	33.22744	-86.45374	430.01	433.01	107.3	336.11	326.11	10	2/20/2021
GN-AP-MW-4	Downgradient	Middle Knox Dolomite	33.22617	-86.47804	437.86	440.57	96.1	354.87	344.87	10	11/6/2015
GN-AP-MW-5	Downgradient	Upper Knox Dolomite	33.22817	-86.47903	428.06	431.30	63.1	378.65	368.65	10	9/17/2015
GN-AP-MW-6	Downgradient	Upper Knox Dolomite	33.23014	-86.47904	424.61	427.85	50.3	387.95	377.95	10	9/21/2015
GN-AP-MW-7	Downgradient	Upper Knox Dolomite	33.23259	-86.47908	416.80	420.02	64.7	365.75	355.75	10	9/23/2015
GN-AP-MW-8	Downgradient	Middle Knox Dolomite	33.23467	-86.47884	426.87	429.63	84.7	355.34	345.34	10	10/14/2015
GN-AP-MW-9	Downgradient	Mid-Lower Knox Dolomite	33.23576	-86.47681	422.16	424.85	135.7	299.56	289.56	10	11/12/2015
GN-AP-MW-10	Downgradient	Middle Knox Dolomite	33.23655	-86.47459	422.69	425.69	82.6	353.49	343.49	10	9/4/2015
GN-AP-MW-11	Downgradient	Middle Knox Dolomite	33.23731	-86.47253	422.62	425.39	77.4	358.35	348.35	10	10/9/2015
GN-AP-MW-12	Downgradient	Middle Knox Dolomite	33.23811	-86.47035	422.43	425.22	89.5	346.12	336.12	10	9/9/2015

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



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

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-AP-MW-13	Downgradient	Upper Knox Dolomite	33.23883	-86.46819	421.21	424.04	65.4	369.02	359.02	10	9/1/2015
GN-AP-MW-14	Downgradient	Middle Knox Dolomite	33.24021	-86.46548	424.54	427.20	97.1	340.55	330.55	10	12/10/2015
GN-AP-MW-15R	Downgradient	Middle Knox Dolomite	33.23771	-86.46187	438.00	438.15	67.5	381.09	371.09	10	6/2/2016
GN-AP-MW-16	Downgradient	Upper Knox Dolomite	33.23613	-86.46255	419.08	422.30	50.4	382.35	372.35	10	9/16/2015
GN-AP-MW-17	Downgradient	Middle Knox Dolomite	33.23456	-86.46379	404.86	407.75	67.4	350.73	340.73	10	10/13/2015
GN-AP-MW-18	Downgradient	Middle Knox Dolomite	33.23275	-86.46499	413.22	416.13	60.9	365.64	355.64	10	9/11/2015
GN-AP-MW-19	Downgradient	Middle Knox Dolomite	33.23056	-86.46778	413.75	416.16	91.9	334.66	324.66	10	11/3/2015
GN-AP-MW-20	Downgradient	Middle Knox Dolomite	33.23129	-86.46585	403.89	406.65	88.3	328.75	318.75	10	12/1/2015
GN-AP-MW-21	Downgradient	Upper Knox Dolomite	33.22979	-86.47908	425.25	428.25	38.5	400.15	390.15	10	6/9/2016
GN-AP-MW-22	Downgradient	Upper Knox Dolomite	33.22895	-86.47906	424.11	427.11	34.1	403.41	393.41	10	6/8/2016

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



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

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-AP-MW-17SV	Vertical Delineation	Upper Knox Dolomite	33.23634	-86.46248	404.10	406.92	29.5	387.82	377.82	10	12/5/2018
GN-AP-MW-20SV	Vertical Delineation	Upper Knox Dolomite	33.23486	-86.46363	403.07	405.78	33.0	383.20	373.20	10	12/3/2018
GN-AP-MW-20V	Vertical Delineation	Mid-Lower Knox Dolomite	33.23478	-86.46371	403.25	406.25	118.9	297.75	287.75	10	1/10/2019
GN-AP-MW-17V	Vertical Delineation	Middle Knox Dolomite	33.23133	-86.46593	402.25	405.25	102.0	313.65	303.65	10	1/17/2019
GN-AP-MW-16V	Vertical Delineation	Mid-Lower Knox Dolomite	33.23536	-86.46324	420.26	422.88	123.3	309.98	299.98	10	2/6/2019
GN-AP-MW-23D	Vertical Delineation	Lower Knox Dolomite	33.22819	-86.47944	425.94	428.69	147.4	291.73	281.73	10	--
GN-AP-MW-32V	Vertical Delineation	Mid-Lower Knox Dolomite	33.23592	-86.46319	451.07	453.77	243.3	220.92	210.92	10	9/17/2019
GN-AP-MW-33V	Vertical Delineation	Mid-Lower Knox Dolomite	33.23469	-86.46413	451.26	454.29	243.2	221.54	211.54	10	9/21/2019
GN-AP-MW-34V	Vertical Delineation	Mid-Lower Knox Dolomite	33.23154	-86.46624	445.15	447.98	229.8	228.55	218.55	10	9/3/2019
GN-AP-MW-31VR	Vertical Delineation	Mid-Lower Knox Dolomite	33.23833	-86.46136	435.28	438.65	194.4	254.68	244.68	10	3/24/2020
GN-AP-MW-36V	Vertical Delineation	Lower Knox Dolomite	33.23459	-86.46421	451.34	454.37	349.0	125.74	105.74	20	3/14/2020
GN-AP-MW-35V	Vertical Delineation	Lower Knox Dolomite	33.23158	-86.46626	446.08	449.39	353.9	115.88	95.88	20	3/31/2020
GN-AP-MW-37V	Vertical Delineation	Lower Knox Dolomite	33.23604	-86.46309	450.79	453.46	347.7	126.19	106.19	20	2/19/2020
GN-AP-MW-29H	Horizontal Delineation	Middle Knox Dolomite	33.23138	-86.46588	403.56	407.06	103.5	313.96	303.96	10	1/22/2019
GN-AP-MW-28H	Horizontal Delineation	Middle Knox Dolomite	33.23591	-86.46281	410.53	413.90	103.5	320.53	310.53	10	2/1/2019
GN-AP-MW-23S	Horizontal Delineation	Upper Knox Dolomite	33.22814	-86.47944	426.15	429.15	27.7	411.87	401.87	10	6/10/2016
GN-AP-MW-26	Horizontal Delineation	Upper Knox Dolomite	33.23029	-86.47977	422.45	425.51	24.5	404.23	394.23	10	6/19/2016

Notes:

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

(1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.

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

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



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

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-AP-MW-27	Horizontal Delineation	Upper Knox Dolomite	33.22815	-86.47972	428.35	428.35	24.5	404.23	394.23	10	--
GN-AP-MW-30H	Horizontal Delineation	Upper Knox Dolomite	33.23854	-86.46124	434.99	437.87	76.7	371.54	361.54	10	9/6/2019

Notes:

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

(1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.

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

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



**Table 1c. - Abandoned Well Network Details
Plant Gaston Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-AP-MW-1	Abandoned	Mid-Lower Knox Dolomite	33.23122	-86.47087	457.72	460.54	199.1	271.82	261.82	10	12/3/2015
GN-AP-MW-2	Abandoned	Middle Knox Dolomite	33.2303	-86.47366	442.81	445.67	126.0	330.04	320.04	10	10/7/2015

Notes:

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

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

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

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



Table 2. Parameters And Reporting Limits

Plant Gaston Ash Pond
03/30/2021 - 09/29/2021

Appendix III Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Boron	EPA 200.7	0.1015	mg/L
Calcium	EPA 200.7	0.406-4.06	mg/L
Chloride	SM4500Cl E	1-16	mg/L
Fluoride	SM4500F G 2017	0.1	mg/L
pH (Field)	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	1-50	mg/L
TDS	NA	NA	mg/L
Appendix IV Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Antimony	EPA 200.8	0.001015	mg/L
Arsenic	EPA 200.8	0.000203	mg/L
Barium	EPA 200.8	0.000203	mg/L
Beryllium	EPA 200.8	0.001015	mg/L
Cadmium	EPA 200.8	0.000203	mg/L
Chromium	EPA 200.8	0.001015	mg/L
Cobalt	EPA 200.8	0.000203	mg/L
Fluoride	SM4500F G 2017	0.1	mg/L
Lead	EPA 200.8	0.000203	mg/L
Lithium	EPA 200.7	0.02	mg/L
Mercury	EPA 245.1	0.0005	mg/L
Molybdenum	EPA 200.8	0.000203-0.001015	mg/L
Selenium	EPA 200.8	0.001015	mg/L
Thallium	EPA 200.8	0.000203	mg/L
Combined Radium 226 + 228	Total Radium Calculation	NA	pCi/L

Notes:

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



Table 3.
Recent Groundwater Elevations Summary
Plant Gaston Ash Pond
April 2019 - September 2021

Well Name	Top of Casing Elevation (ft. NAVD)	Groundwater Elevation (ft. NAVD)							
		4/1/2019	9/16/2019	2/17/2020	4/29/2020	7/20/2020	3/29/2021	4/12/2021	9/21/2021
GN-AP-MW-1	460.54	432.14	428.36	--	--	--	--	--	--
GN-AP-MW-2	445.67	431.74	429.25	--	--	--	--	--	--
GN-AP-MW-3	447.14	430.71	428.11	432.58	430.40	426.85	430.50	--	429.35
GN-AP-MW-4	440.57	428.29	420.57	438.60	434.34	421.16	431.37	--	426.36
GN-AP-MW-5	431.30	419.87	413.86	426.28	424.68	414.32	422.61	--	421.35
GN-AP-MW-6	427.85	417.51	413.47	419.02	418.05	412.97	417.63	--	417.29
GN-AP-MW-7	420.02	415.41	407.47	416.58	415.95	411.23	416.10	--	415.28
GN-AP-MW-8	429.63	417.11	406.9	417.98	417.48	413.37	417.56	--	417.35
GN-AP-MW-9	424.85	419.52	415.75	419.84	419.64	418.01	419.74	--	419.76
GN-AP-MW-10	425.69	420.91	418.03	420.44	420.26	419.25	420.64	--	421.00
GN-AP-MW-11	425.39	422.06	419.35	422.02	421.91	420.2	421.90	--	422.18
GN-AP-MW-12	425.22	425.22	423.48	425.22	425.22	425.22	425.22	--	425.22
GN-AP-MW-13	424.04	424.04	424.04	424.04	424.04	424.04	423.20	--	424.04
GN-AP-MW-14	427.20	399.71	399.42	401.33	400.86	399.95	400.32	--	400.71
GN-AP-MW-15R	442.60	403.47	402.2	404.02	402.24	400.69	402.11	--	400.03
GN-AP-MW-16	422.30	402.93	402.2	404.01	401.89	400.96	402.30	--	400.06
GN-AP-MW-17	407.75	407.75	407.75	407.75	407.75	407.75	406.30	--	404.59
GN-AP-MW-18	416.13	396.19	395.96	398.18	397.21	395.97	398.51	--	395.92
GN-AP-MW-19	416.16	412.99	409.86	415.86	414.36	411.22	414.09	--	413.40
GN-AP-MW-20	406.65	398.57	397.99	400.20	398.59	398.07	400.53	--	397.69
GN-AP-MW-21	428.25	417.81	413.5	420.14	418.89	412.83	417.80	--	417.37
GN-AP-MW-22	427.11	418.91	413.36	423.61	422.23	413.5	420.40	--	419.59
GN-AP-MW-16V	422.88	415.81	413.41	413.48	410.39	407.92	406.78	--	405.34
GN-AP-MW-17V	405.25	404.95	405.25	404.95	403.83	402.79	403.24	--	401.49
GN-AP-MW-17SV	406.92	398.54	398.5	399.87	398.15	397.81	399.70	--	397.81
GN-AP-MW-20V	406.25	399.13	398.55	400.72	398.95	398.44	400.84	--	398.07
GN-AP-MW-20SV	405.78	396.32	396.02	398.23	396.50	396.06	398.73	--	396.28
GN-AP-PZ-23D	428.69	419.35	413.44	425.61	423.43	417.62	422.06	--	420.88
GN-AP-PZ-23S	429.15	419.92	413.85	426.02	424.61	--	422.68	--	421.54
GN-AP-MW-26	425.51	416.69	413.14	417.84	417.19	--	417.21	--	416.58
GN-AP-MW-27	428.35	419.95	413.86	426.43	424.52	413.88	422.87	--	421.74
GN-AP-MW-28H	413.90	408.28	406.7	407.70	405.10	414.27	403.79	--	401.94
GN-AP-MW-29H	407.06	406.82	407.06	407.06	407.06	412.83	405.87	--	403.81
GN-AP-MW-30H	437.87	--	--	398.29	396.08	413.72	398.48	--	395.85
GN-AP-MW-31V	438.49	--	--	398.17	397.11	403.59	397.04	--	395.90
GN-AP-MW-31VR	438.65	--	--	--	396.69	407.06	397.91	--	395.95
GN-AP-MW-32V	453.77	--	--	422.87	419.38	395.76	411.74	--	411.11
GN-AP-MW-33V	454.29	--	--	416.52	419.90	402.18	410.58	--	409.19
GN-AP-MW-34V	447.98	--	--	406.28	404.70	414.34	405.71	--	402.16
GN-AP-MW-35V	449.39	--	--	--	404.07	413.35	404.33	--	401.57
GN-AP-MW-36V	454.37	--	--	--	414.34	396.27	410.40	--	408.45
GN-AP-MW-37V	453.46	--	--	--	417.12	395.97	410.38	--	409.54
GN-AP-MW-38	404.93	--	--	--	--	--	--	399.27	397.70
GN-AP-MW-39	416.71	--	--	--	--	--	--	401.81	397.19
GN-AP-MW-40	414.32	--	--	--	--	--	--	400.89	397.39
GN-AP-MW-41	407.28	--	--	--	--	--	--	400.37	397.28
GN-AP-MW-42	433.01	--	--	--	--	--	--	400.10	397.08

Notes:
ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum
(1) "-" Not Measured
(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Ash Pond
09/21/2021 - 09/27/2021

GN-AP-MW-22				
Sample Date = 9/27/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	1.43	1.44	0.70%
Calcium	mg/L	77.7	78.9	1.53%
Chloride	mg/L	28.6	28.4	0.70%
Sulfate	mg/L	122	114	6.78%
TDS	mg/L	402	385	4.32%
Barium	mg/L	0.036	0.0351	2.53%
Cobalt	mg/L	0.00031	0.00028	9.52%
Molybdenum	mg/L	0.0388	0.0383	1.30%
GN-AP-MW-5				
Sample Date = 9/27/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.721	0.725	0.55%
Calcium	mg/L	53.1	50.6	4.82%
Chloride	mg/L	14.6	14.6	0.00%
Sulfate	mg/L	33.5	33.5	0.00%
TDS	mg/L	240	229	4.69%
Barium	mg/L	0.0266	0.0262	1.52%
Molybdenum	mg/L	0.0541	0.0541	0.00%
GN-AP-MW-23D				
Sample Date = 9/21/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	1.46	1.47	0.68%
Calcium	mg/L	51.9	53	2.10%
Chloride	mg/L	55	55.7	1.27%
Sulfate	mg/L	80.7	80.7	0.00%
TDS	mg/L	377	407	7.65%
Arsenic	mg/L	0.00102	0.00102	0.00%
Barium	mg/L	0.0577	0.0582	0.86%
Molybdenum	mg/L	0.00537	0.00549	2.21%
GN-AP-MW-39				
Sample Date = 9/21/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	36.1	35.9	0.56%
Chloride	mg/L	2.94	2.99	1.69%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Ash Pond
09/21/2021 - 09/27/2021

GN-AP-MW-39				
Sample Date = 9/21/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Fluoride	mg/L	0.181	0.18	0.55%
Sulfate	mg/L	14.5	14.1	2.80%
TDS	mg/L	139	138	0.72%
Arsenic	mg/L	0.00049	0.00046	6.98%
Barium	mg/L	0.0283	0.0289	2.10%
Molybdenum	mg/L	0.00088	0.00103	15.37%
GN-AP-MW-41				
Sample Date = 9/21/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	31.7	31.8	0.32%
Chloride	mg/L	2.78	2.75	1.09%
Sulfate	mg/L	1.44	1.38	4.26%
TDS	mg/L	148	148	0.00%
Barium	mg/L	0.0213	0.022	3.23%

Notes:

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



Table 4b. - Field QC: Blank Detections

Plant Gaston Ash Pond
09/27/2021 - 09/29/2021

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
09/29/2021	EB-1	Chromium	0.0003 J	mg/L	0.0002
09/29/2021	FB-5	Chromium	0.00028 J	mg/L	0.0002
09/28/2021	FB-3	Chromium	0.00029 J	mg/L	0.0002
09/27/2021	FB-2	Chromium	0.00031 J	mg/L	0.0002
09/27/2021	FB-4	Chromium	0.0003 J	mg/L	0.0002
09/27/2021	FB-1	Chromium	0.00024 J	mg/L	0.0002
09/29/2021	EB-1	Molybdenum	8E-05 J	mg/L	7E-05

Notes:

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



Table 4c – Field QC: Data Validation Results (Blanks)

Plant Gaston Ash Pond
09/27/2021 - 09/29/2021

List of Compliance Sample Concentrations < 5x Blank Concentrations							
Sample Date	QC Sample	Parameter	QC Sample Result (5x)	Sample Location	Result	Units	Validation Flag
09/29/2021	EB-1	Chromium	0.0015	GN-AP-MW-17	0.00028 J	mg/L	+(U)*
09/29/2021	EB-1	Chromium	0.0015	GN-AP-MW-17SV	0.00027 J	mg/L	+(U)*
09/29/2021	EB-1	Chromium	0.0015	GN-AP-MW-17V	0.00033 J	mg/L	+(U)*
09/28/2021	FB-3	Chromium	0.00146	GN-AP-MW-18	0.00029 J	mg/L	+(U)*
09/28/2021	FB-3	Chromium	0.00146	GN-AP-MW-20	0.00029 J	mg/L	+(U)*
09/28/2021	FB-3	Chromium	0.00146	GN-AP-MW-20SV	0.0003 J	mg/L	+(U)*
09/27/2021	FB-1	Chromium	0.0012	GN-AP-MW-21	0.00037 J	mg/L	+(U)*
09/27/2021	FB-1	Chromium	0.0012	GN-AP-MW-22	0.00031 J	mg/L	+(U)*
09/27/2021	FB-2	Chromium	0.00155	GN-AP-MW-3	0.0005 J	mg/L	+(U)*
09/29/2021	FB-5	Chromium	0.00138	GN-AP-MW-30H	0.00038 J	mg/L	+(U)*
09/29/2021	FB-5	Chromium	0.00138	GN-AP-MW-31VR	0.00026 J	mg/L	+(U)*
09/27/2021	FB-2	Chromium	0.00155	GN-AP-MW-32V	0.00029 J	mg/L	+(U)*
09/29/2021	FB-5	Chromium	0.00138	GN-AP-MW-34V	0.00032 J	mg/L	+(U)*
09/29/2021	EB-1	Chromium	0.0015	GN-AP-MW-35V	0.00023 J	mg/L	+(U)*
09/27/2021	FB-2	Chromium	0.00155	GN-AP-MW-37V	0.00038 J	mg/L	+(U)*
09/27/2021	FB-2	Chromium	0.00155	GN-AP-MW-4	0.00082 J	mg/L	+(U)*
09/27/2021	FB-1	Chromium	0.0012	GN-AP-MW-5	0.00036 J	mg/L	+(U)*
09/27/2021	FB-1	Chromium	0.0012	GN-AP-MW-6	0.00035 J	mg/L	+(U)*
09/27/2021	FB-1	Chromium	0.0012	GN-AP-MW-7	0.00037 J	mg/L	+(U)*

Notes:

- (1) Lab qualifiers have been appended to validation flag
- (2) QC Sample listed represents the source of comparison
- (3) Only Appendix 4 data validated (excluding Radium)

Appendix IV Analytes			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.0283	2
Beryllium	mg/L	0.003	0.004
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.01	0.01
Fluoride	mg/L	0.3	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.05	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00856	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002
Combined Radium 226 + 228	pCi/L	1	5

Notes:

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



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Ash Pond
3/30/2021-4/13/2021

Analyte	Units	GN-AP-MW-3	GN-AP-MW-38	GN-AP-MW-39	GN-AP-MW-40	GN-AP-MW-41	GN-AP-MW-42	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-6
		04/05/2021	04/12/2021	04/12/2021	04/12/2021	04/12/2021	04/12/2021	04/13/2021	04/05/2021	04/07/2021
Appendix III										
Boron	mg/L	<0.03	<0.03	<0.03	0.0342 J	<0.03	<0.03	0.2	0.885	2.4
Calcium	mg/L	30.6	23.2	35	22.9	26.6	11.7	52.2	53.3	75.5
Chloride	mg/L	1.91	5.88	2.91	4.13	3.05	4.18	12.8	18.8	45.5
Fluoride	mg/L	0.0801 J	<0.06	0.163	0.0651 J	<0.06	<0.06	0.0842 J	0.0874 J	0.0872 J
pH_Field	SU	7.67	7.99	7.09	7.77	7.18	6.14	7.33	7.47	7.02
Sulfate	mg/L	3.2	12.6	14.6	7.23	2.99	4.92	15.6	38.7	151
TDS	mg/L	136	129	146	118	126	77.3	248	256	436
Appendix IV										
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.000829	0.000283	0.000946	0.000195 J	0.000179 J	0.000163 J	0.000142 J	0.000148 J	9.55e-005 J
Barium	mg/L	0.0222	0.008	0.0226	0.0107	0.0155	0.0154	0.0151	0.027	0.0211
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000855	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00065 J	0.000599 J	0.000345 J	0.000871 J	0.000441 J	0.000307 J	0.000909 J	0.000278 J	0.000259 J
Cobalt	mg/L	<6.8e-005	9.61e-005 J	<6.8e-005	0.000109 J	0.000167 J	0.00168	<6.8e-005	9.62e-005 J	<6.8e-005
Combined Radium 226 + 228	pCi/L	0.143 U	0.369 U	0.176 U	0.161 U	0.456 U	0.404 U	0.474 U	1.4	0.387 U
Lead	mg/L	<6.8e-005	0.000124 J	<6.8e-005	0.000114 J	0.000122 J	<6.8e-005	<6.8e-005	0.00014 J	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.01 J	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00538	0.000402	0.00167	0.000473	<6.8e-005	0.000176 J	0.000137 J	0.0562	0.0119
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	0.000203 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00015 J	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" - Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Ash Pond
3/30/2021-4/13/2021

Analyte	Units	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R
		04/07/2021	04/06/2021	04/05/2021	04/05/2021	04/05/2021	04/05/2021	04/06/2021	04/06/2021	04/06/2021
Appendix III										
Boron	mg/L	1.9	0.0327 J	0.0314 J	0.0854 J	0.271	0.427	<0.03	<0.03	2.54
Calcium	mg/L	86.8	51.1	31.7	40	40.1	64.8	43.8	78.2	98.6
Chloride	mg/L	22.4	3.9	9.25	3.88	7.09	19.7	5.06	3.37	105
Fluoride	mg/L	0.0705 J	0.114	0.15	0.0627 J	0.0634 J	0.0733 J	0.0794 J	0.124	0.116
pH_Field	SU	7.51	7.23	7.8	6.93	7.63	6.88	7.5	7.51	7.64
Sulfate	mg/L	164	3.29	15.1	11.4	50.1	96.8	<0.5	77.5	230
TDS	mg/L	436	256	211	184	217	372	193	342	590
Appendix IV										
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.000194 J	0.00108	0.00234	0.000311	0.000237	0.00276	0.000661	0.000441	0.000767
Barium	mg/L	0.0245	0.018	0.104	0.0142	0.00832	0.0751	0.0389	0.0659	0.0541
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000506 J	0.000333 J	0.000295 J	0.000275 J	0.000743 J	0.000278 J	0.000353 J	0.000234 J	0.000777 J
Cobalt	mg/L	<6.8e-005	9.45e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	0.000113 J	0.000142 J	<6.8e-005	0.000352
Combined Radium 226 + 228	pCi/L	0.743 U	0.53 U	0.843 U	0.579 U	0.13 U	1.2	0.66 U	0.875 U	1.2
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000106 J	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.0423
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00021	0.000895	0.000821	0.000248	0.00033	0.000366	0.000329	0.000298	0.156
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Ash Pond
3/30/2021-4/13/2021

Analyte	Units	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-19	GN-AP-MW-20	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-17SV	GN-AP-MW-20SV
		04/05/2021	04/06/2021	04/06/2021	04/05/2021	04/12/2021	04/07/2021	04/07/2021	04/06/2021	04/12/2021
Appendix III										
Boron	mg/L	1.43	3.48	1.44	<0.03	4.29	1.75	1.61	2.58	3.13
Calcium	mg/L	57.6	159	121	42.6	161	72.7	79.7	99.9	132
Chloride	mg/L	19.8	52.8	12.4	12.6	19.8	44.8	38.9	34.4	19.2
Fluoride	mg/L	0.159	0.179	<0.06	0.088 J	0.0644 J	0.0739 J	0.0834 J	0.129	0.108
pH_Field	SU	7.76	9.59	6.67	7.66	7.96	7.24	6.7	7.56	7.02
Sulfate	mg/L	172	421	181	23.1	547	145	124	297	421
TDS	mg/L	333	772	596	220	926	432	409	572	768
Appendix IV										
Antimony	mg/L	<0.000507	0.000633 J	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.00452	0.00999	0.00272	0.00228	0.00368	0.00103	0.000184 J	0.00217	0.00339
Barium	mg/L	0.0421	0.119	0.0483	0.0149	0.0589	0.0375	0.0352	0.0751	0.127
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	9.99e-005 J	0.000391	<6.8e-005	<6.8e-005	0.000123 J	<6.8e-005	<6.8e-005	0.000173 J	<6.8e-005
Chromium	mg/L	0.000319 J	0.000347 J	0.000334 J	0.000316 J	0.00038 J	0.00032 J	0.000307 J	0.000346 J	0.000305 J
Cobalt	mg/L	0.000679	<6.8e-005	0.000633	9.07e-005 J	<6.8e-005	0.000374	0.000333	0.00202	0.000454
Combined Radium 226 + 228	pCi/L	4.28	0.689 U	1.68	0.959 U	15.6	1.12 U	0.365 U	1.13	1.51
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.111	1.01	0.05	<0.007105	0.139	<0.007105	<0.007105	0.251	0.00768 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.514	3.56	0.0307	0.0137	0.811	0.00838	0.0456	1.26	0.146
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	<6.8e-005	0.000389	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000181 J	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Ash Pond
3/30/2021-4/13/2021

Analyte	Units	GN-AP-MW-20V	GN-AP-MW-17V	GN-AP-MW-16V	GN-AP-MW-23D	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-31VR	GN-AP-MW-36V
		04/12/2021	04/06/2021	04/05/2021	04/06/2021	03/30/2021	03/30/2021	03/30/2021	04/05/2021	03/30/2021
Appendix III										
Boron	mg/L	3.05	2.16	1.39	1.46	0.399	0.231	2.85	0.171	0.208
Calcium	mg/L	121	72.8	40.4	34.3	60.5	45.8	122	33.1	33.7
Chloride	mg/L	24.4	34.5	19.8	58.7	45.3	27	19	30.6	195
Fluoride	mg/L	0.0733 J	0.0995 J	0.136	0.105	0.216	0.29	0.106	0.558	0.405
pH_Field	SU	8.14	8.6	8.54	7.89	7.86	7.82	7.88	8.19	8.11
Sulfate	mg/L	499	288	150	33.5	144	17.4	452	21.7	199
TDS	mg/L	844	525	289	309	483	329	810	319	767
Appendix IV										
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.002	0.00122	0.00117	0.0022	0.0046	0.00882	0.00303	0.00359	0.00131
Barium	mg/L	0.0273	0.0491	0.0482	0.0353	0.0584	0.0593	0.0392	0.0267	0.0792
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	0.000249	8.25e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000634 J	0.000443 J	0.00044 J	0.000305 J	0.000277 J	0.000264 J	0.000281 J	0.000397 J	0.000287 J
Cobalt	mg/L	<6.8e-005	0.0001 J	0.000888	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	2.14	10.9	2.4	0.312 U	1.47	1.41	0.371 U	0.716 U	1.83
Lead	mg/L	0.000234	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0463	0.522	0.319	<0.007105	0.07	0.12	0.0396	<0.007105	0.0297
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.311	2.22	0.614	0.00163	0.0352	0.0174	0.273	0.0133	0.0663
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	<6.8e-005	0.000465	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Ash Pond
3/30/2021-4/13/2021

Analyte	Units	GN-AP-MW-35V	GN-AP-MW-37V	GN-AP-MW-29H	GN-AP-MW-28H	GN-AP-MW-23S	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-30H
		03/30/2021	03/30/2021	04/05/2021	04/05/2021	04/06/2021	04/07/2021	04/06/2021	04/06/2021
Appendix III									
Boron	mg/L	0.143	0.526	1.2	0.796	0.672	1.16	0.214	0.0485 J
Calcium	mg/L	38.8	40.1	44.7	39.9	55.2	69.3	25.9	78
Chloride	mg/L	11.3	13.1	25.2	17.2	30.7	40.3	17.4	34.4
Fluoride	mg/L	0.187	0.169	0.078 J	0.0933 J	0.109	0.0741 J	0.0752 J	0.193
pH_Field	SU	7.91	8.04	8.16	7.91	7.23	7.57	6.26	7.15
Sulfate	mg/L	39.4	97.3	168	133	46.3	124	18.3	37.8
TDS	mg/L	252	262	345	287	280	406	143	426
Appendix IV									
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.00223	0.000664	0.00227	0.00321	0.00026	0.000148 J	0.000159 J	0.00801
Barium	mg/L	0.0184	0.0355	0.0577	0.0309	0.0282	0.0177	0.0151	0.082
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000237 J	0.000245 J	0.000293 J	0.000648 J	0.000261 J	0.0003 J	0.000362 J	0.000317 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000304	<6.8e-005	<6.8e-005	<6.8e-005	0.00127
Combined Radium 226 + 228	pCi/L	0.768 U	4.78	18.7	6.64	1 U	0.472 U	0.21 U	1.8
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000129 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	0.0615	0.323	0.148	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0205	0.227	1.01	0.471	0.0175	0.00202	0.00355	0.00231
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000149 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" - Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids



Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Ash Pond
9/21/2021-9/29/2021

Analyte	Units	GN-AP-MW-3	GN-AP-MW-38	GN-AP-MW-39	GN-AP-MW-40	GN-AP-MW-41	GN-AP-MW-42	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-6
		09/27/2021	09/21/2021	09/21/2021	09/21/2021	09/21/2021	09/21/2021	09/21/2021	09/27/2021	09/27/2021
Appendix III										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.149	0.721	2.03
Calcium	mg/L	30.7	22.3	35.9	21.6	31.8	15.4	54.4	50.6	69.2
Chloride	mg/L	1.9	6.09	2.94	2.19	2.78	3.99	11	14.6	45.3
Fluoride	mg/L	0.0805 J	0.0969 J	0.18	0.083 J	0.0994 J	0.0656 J	0.0702 J	0.0989 J	0.0862 J
pH_Field	SU	7.81	7.85	7.3	7.12	7.3	6.07	7.37	7.55	7.92
Sulfate	mg/L	2.76	5.49	14.1	1.31	1.44	3.27	14.3	33.5	156
TDS	mg/L	132	115	139	111	148	83.3	237	240	415
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000731	0.000126 J	0.000489	0.0001 J	<6.8e-005	<6.8e-005	0.000177 J	0.000161 J	0.000138 J
Barium	mg/L	0.021	0.0101	0.0289	0.00746	0.022	0.0114	0.0155	0.0262	0.0223
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000181 J	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000499 J	0.000792 J	0.000331 J	0.00113	0.000452 J	0.000503 J	0.000822 J	0.000361 J	0.000345 J
Cobalt	mg/L	<6.8e-005	8.24e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	0.348 U	0.655 U	0.723 U	0.737 U	0.828 U	0.491 U	0.745 U	1.34	0.314 U
Lead	mg/L	<6.8e-005	0.000119 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	9.85e-005 J	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.00862 J	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00469	0.000172 J	0.00103	0.000192 J	<6.8e-005	0.000151 J	0.000264	0.0541	0.0118
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	8.13e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" - Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids



Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Ash Pond
9/21/2021-9/29/2021

Analyte	Units	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R
		09/27/2021	09/21/2021	09/21/2021	09/21/2021	09/21/2021	09/21/2021	09/22/2021	09/22/2021	09/22/2021
Appendix III										
Boron	mg/L	1.52	<0.03	<0.03	0.0378 J	0.283	0.447	<0.03	<0.03	2.34
Calcium	mg/L	76.2	51.4	31.5	38.4	40.9	67.3	46.6	80	92.5
Chloride	mg/L	16.5	3.8	9.17	3.39	7.14	19.7	4.8	3.5	98.3
Fluoride	mg/L	0.0882 J	0.132	0.181	0.0847 J	0.0847 J	0.0887 J	0.117	0.149	0.09 J
pH_Field	SU	7.74	7.3	7.72	7.02	7.64	7.48	7.59	7.5	7.63
Sulfate	mg/L	143	1.95	18.4	5.56	55.4	131	0.521 J	116	245
TDS	mg/L	379	256	205	174	217	375	210	394	566
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000189 J	0.0012	0.00308	0.000239	0.00017 J	0.00529	0.000523	0.000574	0.000835
Barium	mg/L	0.0218	0.0179	0.114	0.0129	0.00893	0.0815	0.0444	0.0739	0.0615
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000373 J	0.000313 J	0.000323 J	0.000253 J	0.000923 J	0.000394 J	0.000318 J	0.000302 J	0.000309 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000156 J	<6.8e-005	<6.8e-005	0.0004
Combined Radium 226 + 228	pCi/L	0.319 U	0.0496 U	1.05 U	0.802 U	0.0771 U	1.4	0.834 U	0.44 U	1.04 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.0326
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000261	0.000718	0.00102	0.000183 J	0.000264	0.000296	0.000312	0.000522	0.137
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids



Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Ash Pond
9/21/2021-9/29/2021

Analyte	Units	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-19	GN-AP-MW-20	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-17SV	GN-AP-MW-20SV
		09/28/2021	09/29/2021	09/28/2021	09/22/2021	09/28/2021	09/27/2021	09/27/2021	09/29/2021	09/28/2021
Appendix III										
Boron	mg/L	1.42	3.37	1.58	<0.03	4.32	1.67	1.43	2.53	2.94
Calcium	mg/L	65.3	177	122	42.1	170	73.4	78.9	103	135
Chloride	mg/L	28.9	94.3	13.2	12.8	20	40.1	28.4	41.9	18
Fluoride	mg/L	0.125	0.211	0.0839 J	0.0965 J	0.0828 J	0.0914 J	0.1	0.12	0.0942 J
pH_Field	SU	8.2	9.33	6.48	7.86	7.76	7.64	7.23	7.61	6.87
Sulfate	mg/L	188	425	205	25.9	583	162	122	304	423
TDS	mg/L	354	842	608	218	922	443	402	568	740
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.00593	0.00941	0.00416	0.00221	0.00424	0.00103	0.000175 J	0.00207	0.00296
Barium	mg/L	0.051	0.119	0.0525	0.0162	0.0603	0.0408	0.0351	0.0826	0.132
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	0.000341	<6.8e-005	<6.8e-005	7.99e-005 J	<6.8e-005	<6.8e-005	0.000104 J	<6.8e-005
Chromium	mg/L	0.000315 J	0.000285 J	0.000291 J	0.000237 J	0.000288 J	0.000367 J	0.000309 J	0.000268 J	0.0003 J
Cobalt	mg/L	0.000946	<6.8e-005	0.00132	0.00011 J	<6.8e-005	0.000238	0.00028	0.00206	0.00054
Combined Radium 226 + 228	pCi/L	4.67	1.18	1.94	0.368 U	15.4	0.815 U	0.892 U	1.23	2.92
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.126	1.03	0.0506	<0.007105	0.137	<0.007105	<0.007105	0.196	0.00723 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.538	3.23	0.0592	0.0136	0.845	0.00769	0.0383	1.11	0.147
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	0.000358	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000213	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids



Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Ash Pond
9/21/2021-9/29/2021

Analyte	Units	GN-AP-MW-20V	GN-AP-MW-17V	GN-AP-MW-16V	GN-AP-MW-23D	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-31VR	GN-AP-MW-36V
		09/28/2021	09/29/2021	09/28/2021	09/21/2021	09/27/2021	09/22/2021	09/29/2021	09/29/2021	09/22/2021
Appendix III										
Boron	mg/L	2.94	2.03	1.37	1.46	0.401	0.145	2.81	0.155	0.18
Calcium	mg/L	127	71.5	42.3	53	59.6	40.4	118	30.2	30.3
Chloride	mg/L	23.4	39.2	23.3	55	38.1	21.6	19.7	29.9	168
Fluoride	mg/L	0.0697 J	0.0713 J	0.0851 J	0.102	0.245	0.363	0.136	0.656	0.452
pH_Field	SU	8.03	8.3	8.59	8.08	8.14	7.78	8.44	8.47	7.93
Sulfate	mg/L	528	283	177	80.7	150	36	496	13.7	192
TDS	mg/L	850	509	297	377	447	354	844	309	673
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.00222	0.0015	0.0012	0.00102	0.00523	0.0209	0.00231	0.00475	0.00172
Barium	mg/L	0.0312	0.0502	0.0547	0.0582	0.0631	0.064	0.041	0.0281	0.0847
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	0.000167 J	8.11e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00155	0.000331 J	0.00033 J	0.000431 J	0.000288 J	0.000227 J	0.000319 J	0.000257 J	0.000286 J
Cobalt	mg/L	0.000225	<6.8e-005	0.000872	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	2.87	11	3.09	0.618 U	1.64	1.67	1.81	0.463 U	1.95
Lead	mg/L	0.000718	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0451	0.467	0.318	<0.007105	0.0706	0.0901	0.0365	<0.007105	0.0246
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.324	2.12	0.653	0.00549	0.0407	0.0124	0.209	0.0129	0.0506
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	0.000466	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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4. TDS - Total Dissolved Solids



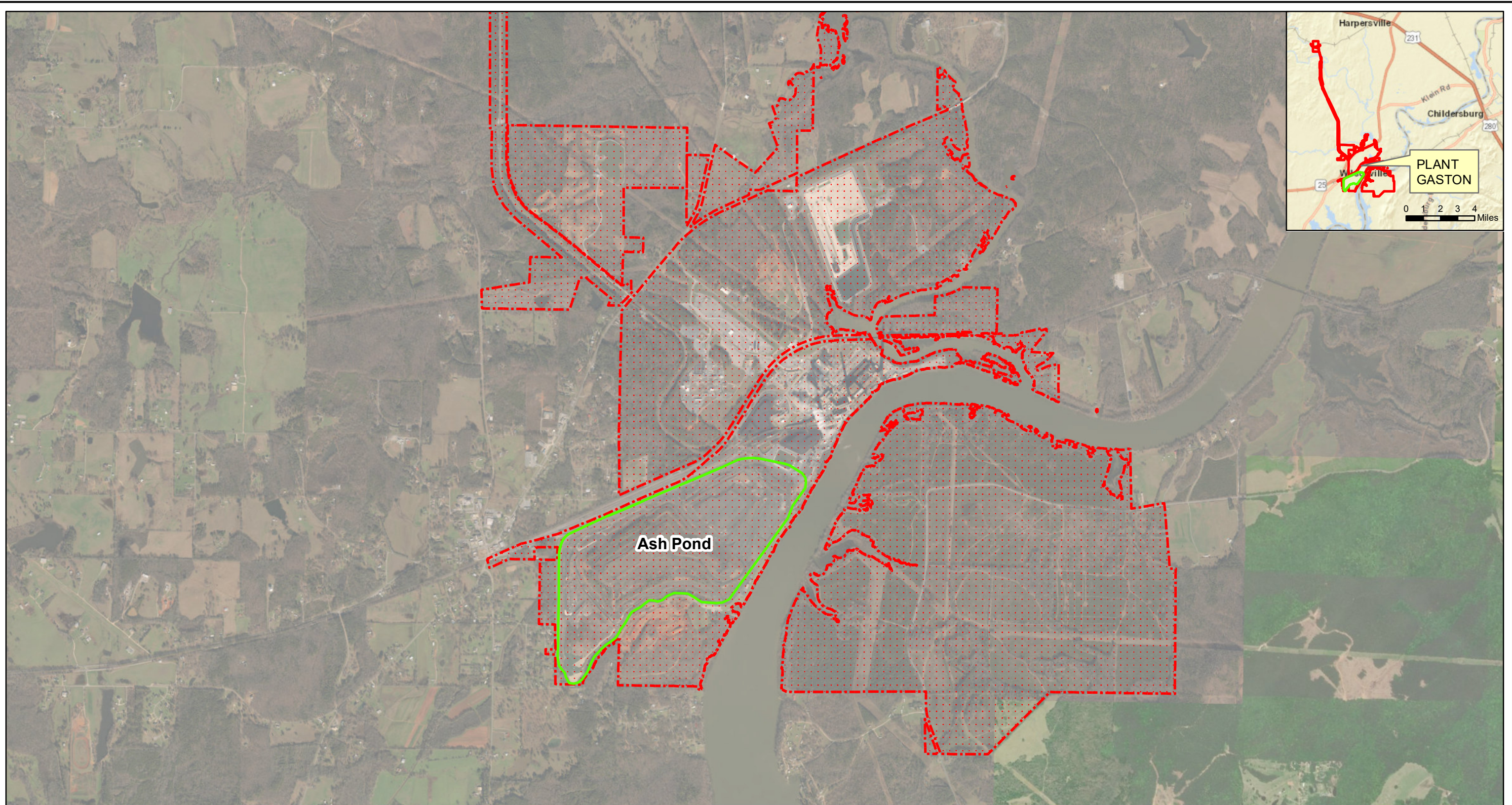
Table 7.
Second Semi-Annual Monitoring Event Analytical Summary
Plant Gaston Ash Pond
9/21/2021-9/29/2021

Analyte	Units	GN-AP-MW-35V	GN-AP-MW-37V	GN-AP-MW-29H	GN-AP-MW-28H	GN-AP-MW-23S	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-30H
		09/29/2021	09/27/2021	09/28/2021	09/28/2021	09/21/2021	09/22/2021	09/21/2021	09/29/2021
Appendix III									
Boron	mg/L	0.117	0.51	1.16	0.788	0.541	1.13	0.129	0.0481 J
Calcium	mg/L	37.6	40.1	46.9	39.7	48.9	68	22.3	78.8
Chloride	mg/L	11.3	13.6	26.8	18.3	20.6	29.7	13	31.9
Fluoride	mg/L	0.223	0.187	0.0614 J	0.0653 J	0.105	0.0852 J	<0.06	0.19
pH_Field	SU	7.83	7.88	8.58	8.38	7.27	7.76	6.58	7.73
Sulfate	mg/L	38.5	104	172	133	39.6	118	12.1	28.7
TDS	mg/L	275	249	340	269	246	379	114	415
Appendix IV									
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.00232	0.000484	0.00222	0.0028	0.000169 J	0.000117 J	0.000182 J	0.00696
Barium	mg/L	0.019	0.0367	0.0597	0.0345	0.0229	0.0179	0.0139	0.0813
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	0.000153 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00023 J	0.000379 J	0.000332 J	0.000319 J	0.000306 J	0.000325 J	0.000274 J	0.000384 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000192 J	<6.8e-005	<6.8e-005	<6.8e-005	0.00112
Combined Radium 226 + 228	pCi/L	1.27	4	16.8	6.47	0.337 U	1.2 U	0 U	1.7
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	0.061	0.302	0.142	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0199	0.221	1.01	0.491	0.0146	0.00244	0.00298	0.00213
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	0.000683 J	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000116 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005



Notes:

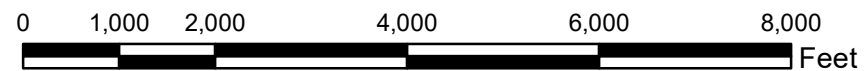
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2. "<MDL" - Non-Detect and indicates the result was not detected above the MDL.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. TDS - Total Dissolved Solids

Figures



Legend

-  Ash Pond Boundary
-  Property Boundary (Approximate)



SCALE 1:24000

DATE 10/26/2020

DRAWN BY KAR

CHECKED BY GBD

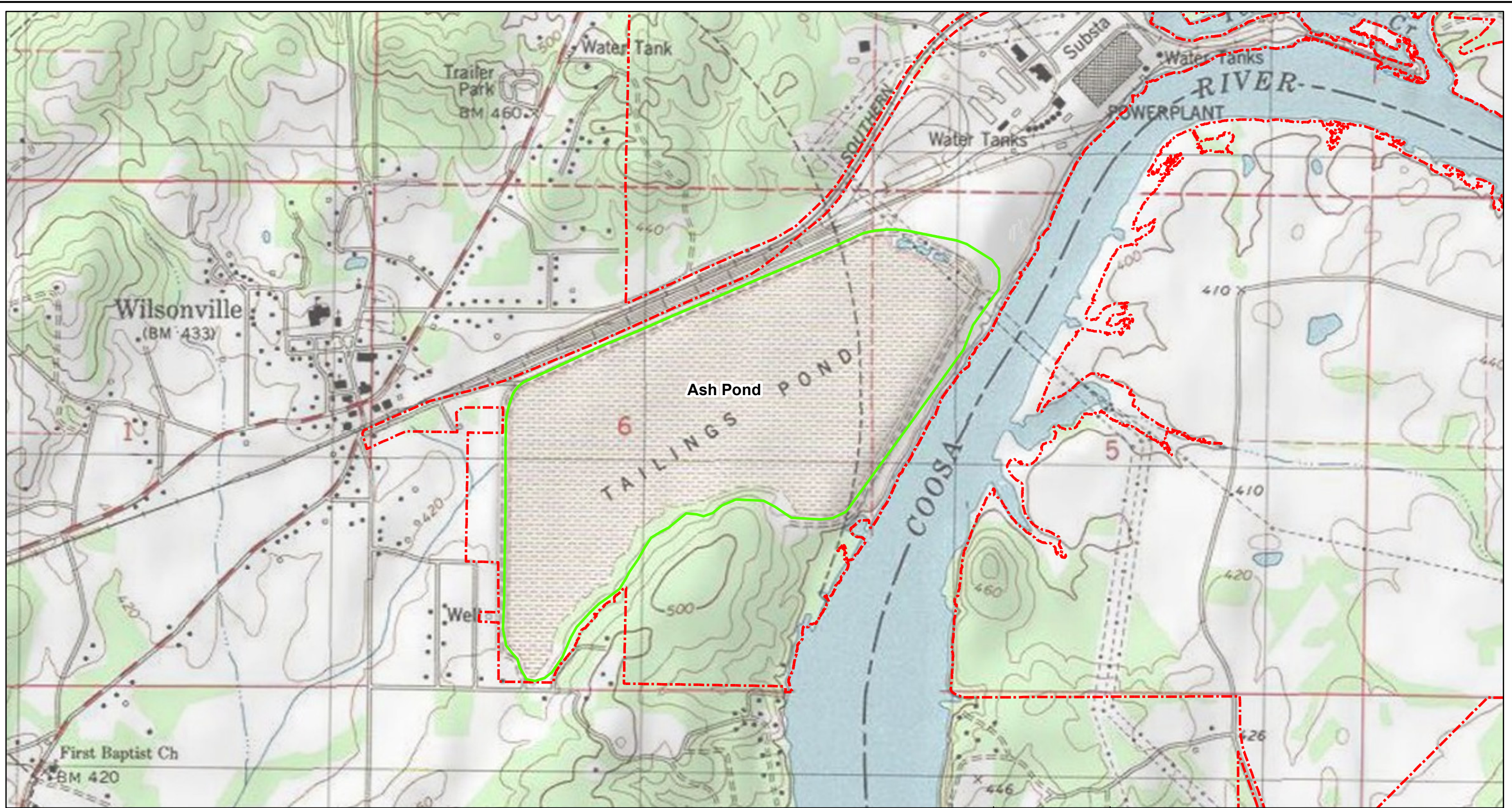
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**SITE LOCATION MAP
PLANT GASTON ASH POND**

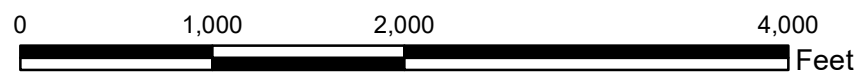
FIGURE NO

FIGURE 1





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

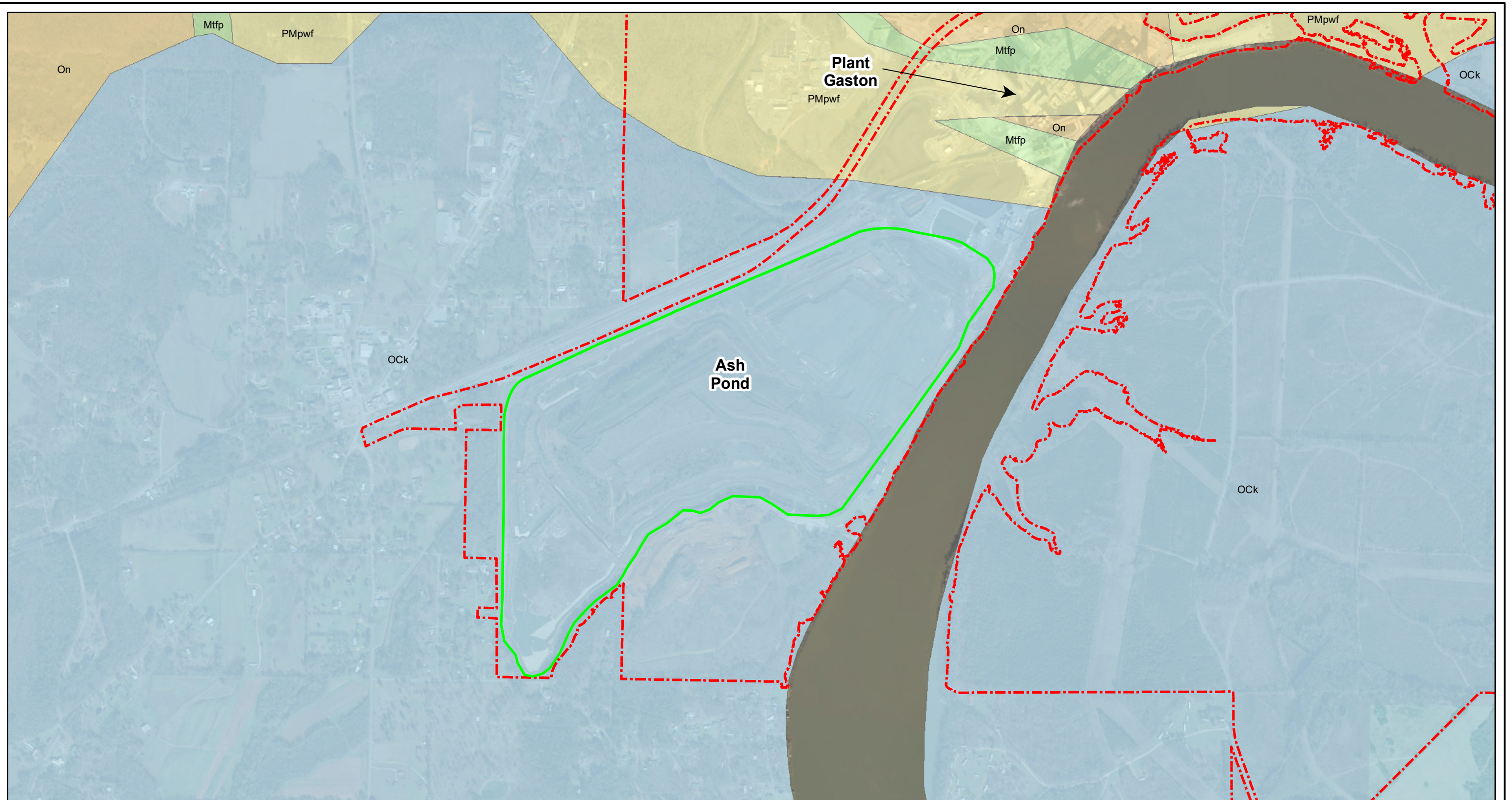


SCALE	1:12000
DATE	10/26/2020
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE
**SITE TOPOGRAPHIC MAP
 PLANT GASTON ASH POND**

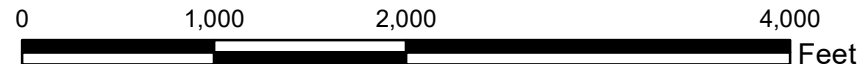
FIGURE NO
FIGURE 2





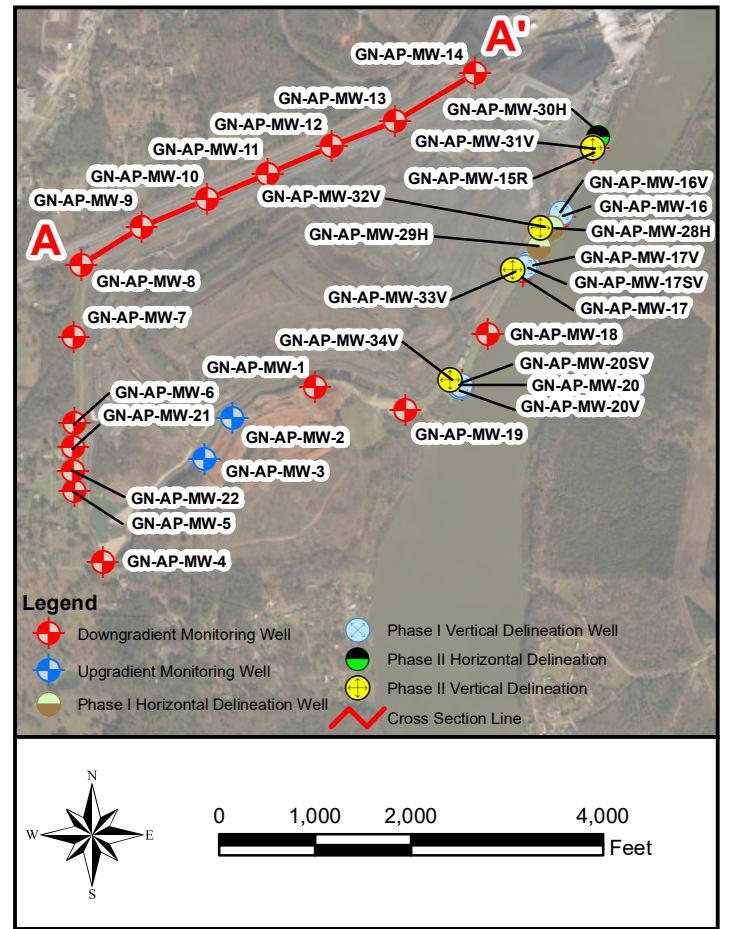
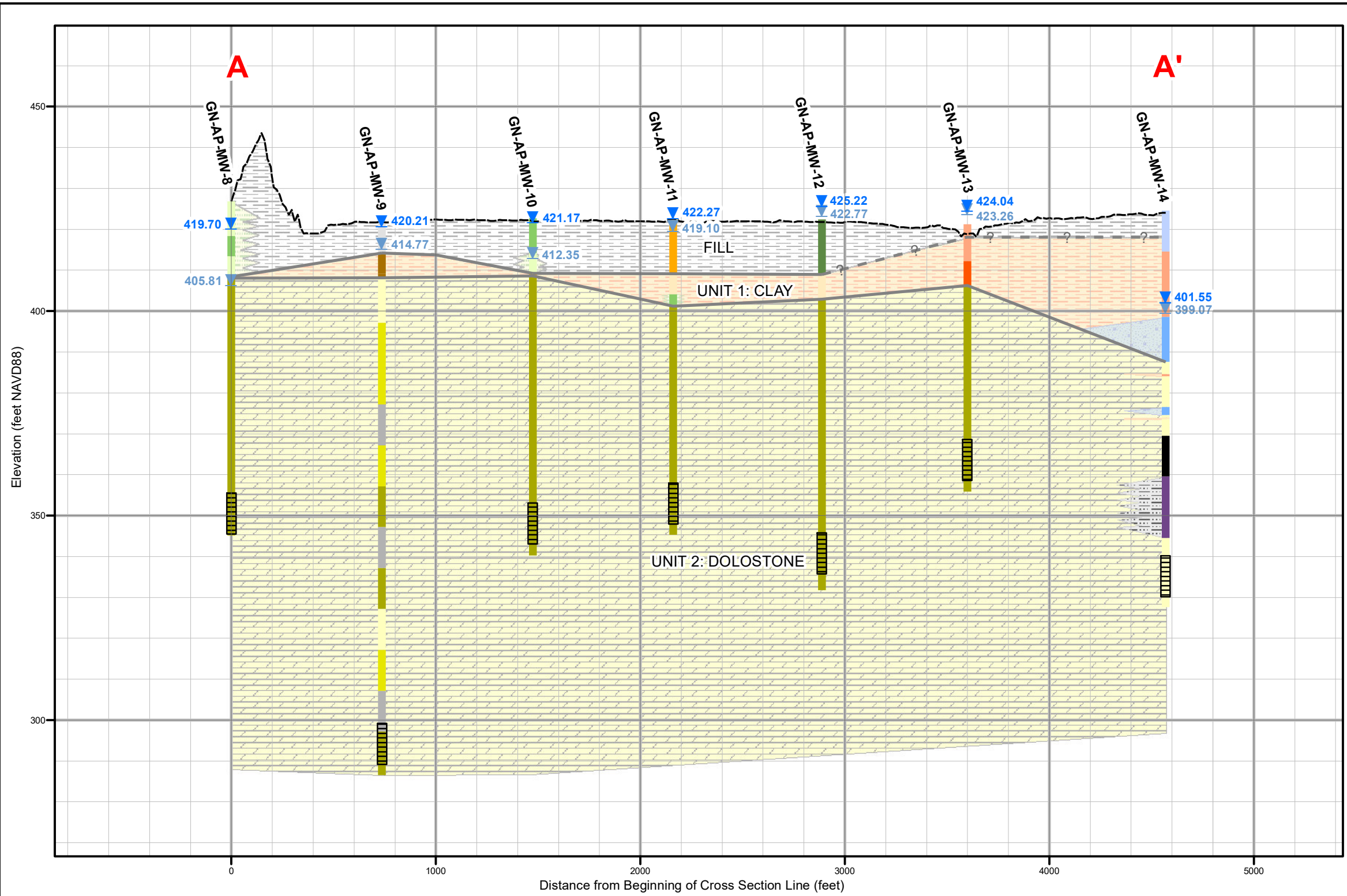
- Legend**
- Ash Pond Boundary
 - Property Boundary (Approximate)

- Geologic Units**
- Knox Group undifferentiated (OCK)
 - Newala Limestone (On)
 - Parkwood Formation and Floyd Shale undifferentiated (PMpwf)
 - Tuscomb Limestone and Fort Payne Chert undifferentiated (Mtfp)



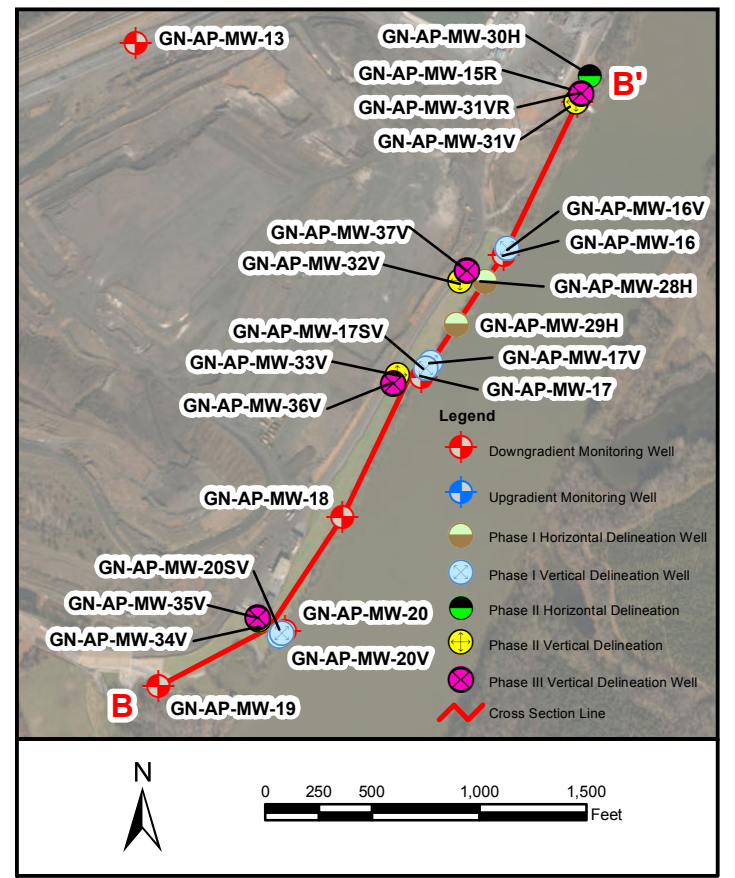
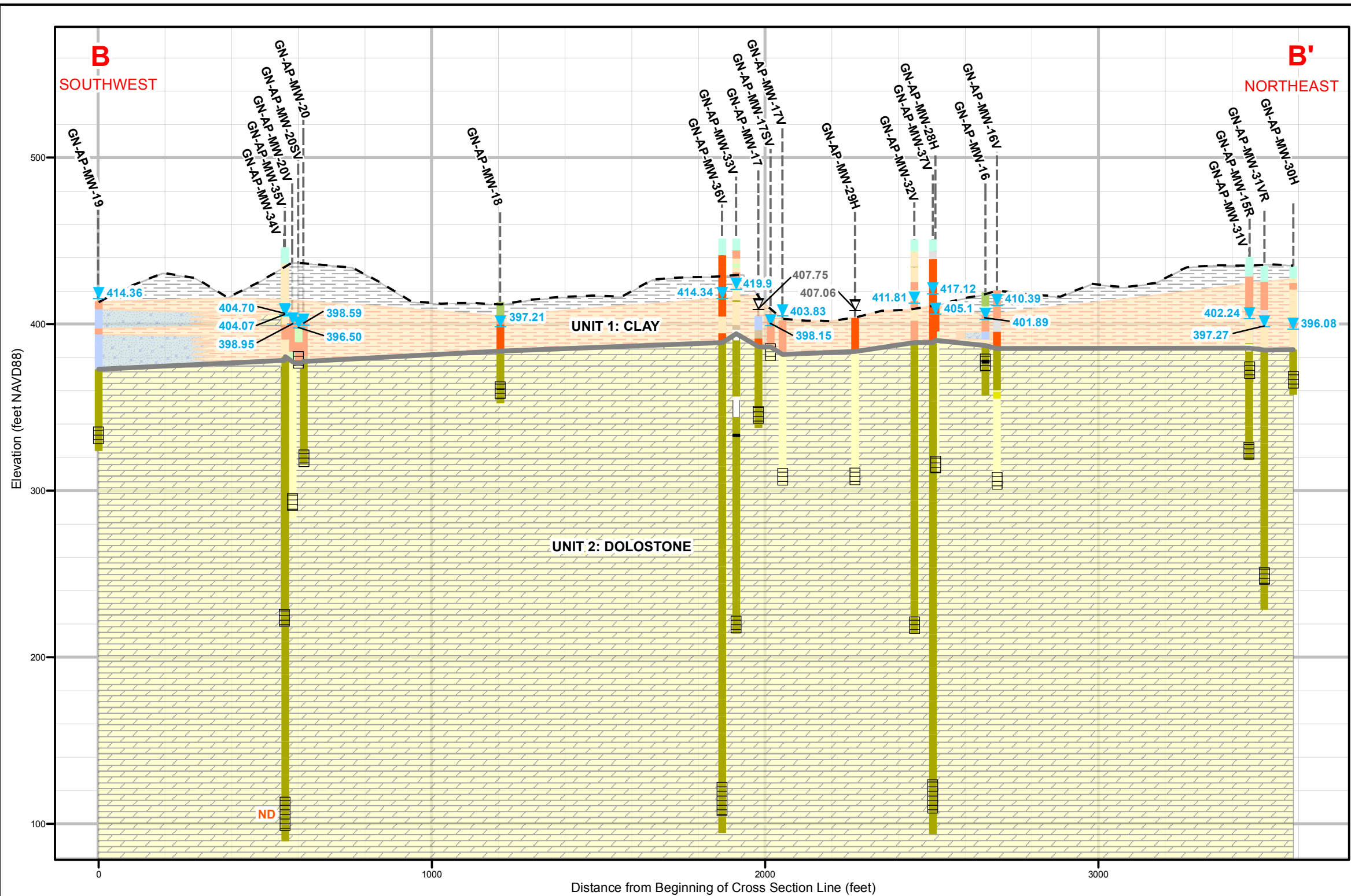
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DATE	10/27/2020
DRAWN BY	KWR
CHECKED BY	GBD

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SITE GEOLOGIC MAP PLANT GASTON ASH POND	
FIGURE NO	Southern Company
FIGURE 3	



Notes: 1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Maximum and minimum groundwater elevation data were derived from the highest and lowest groundwater elevation values measured during events spanning March 28, 2018 to October 22, 2019.
 4. Vertical exaggeration = 20x.

Legend 	Borehole Descriptions 		Geologic Units 		SCALE As Shown	DRAWING TITLE GEOLOGIC CROSS SECTION A - A' PLANT GASTON ASH POND
	DATE 9/21/2020		DRAWN BY KWR		FIGURE NO FIGURE 4A	
	CHECKED BY GBD		DRAWING TITLE FIGURE 4A			



Notes: 1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on April 29, 2020.
 4. Vertical exaggeration = 5x.

Legend		Borehole Description		Geologic Units	
	Groundwater Elevation		No Recovery		Fill
	Artesian Well: Top of Casing Elevation		Hydroexcavation		Clays
	Well Location		Fill		Bedrock Residuum Gravel with Clay
	Ground Surface Elevation		Rock Flour or Gypsum		Partially Weathered Rock
	Screen Interval		Topsoil		Dolostone
			Clayey Sand		Discontinuity
			Fat Clays		Unit Boundary
			Lean Clays		
			Silty Clay		
			Clayey Gravel		
			Sandstone		
			Limestone		
			Silt		
			Dolostone		

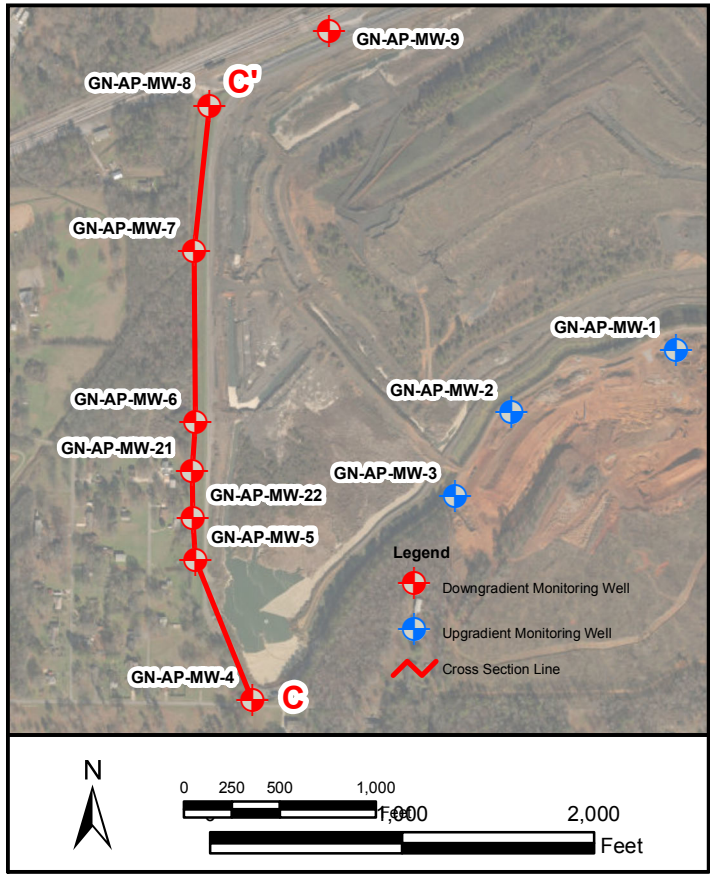
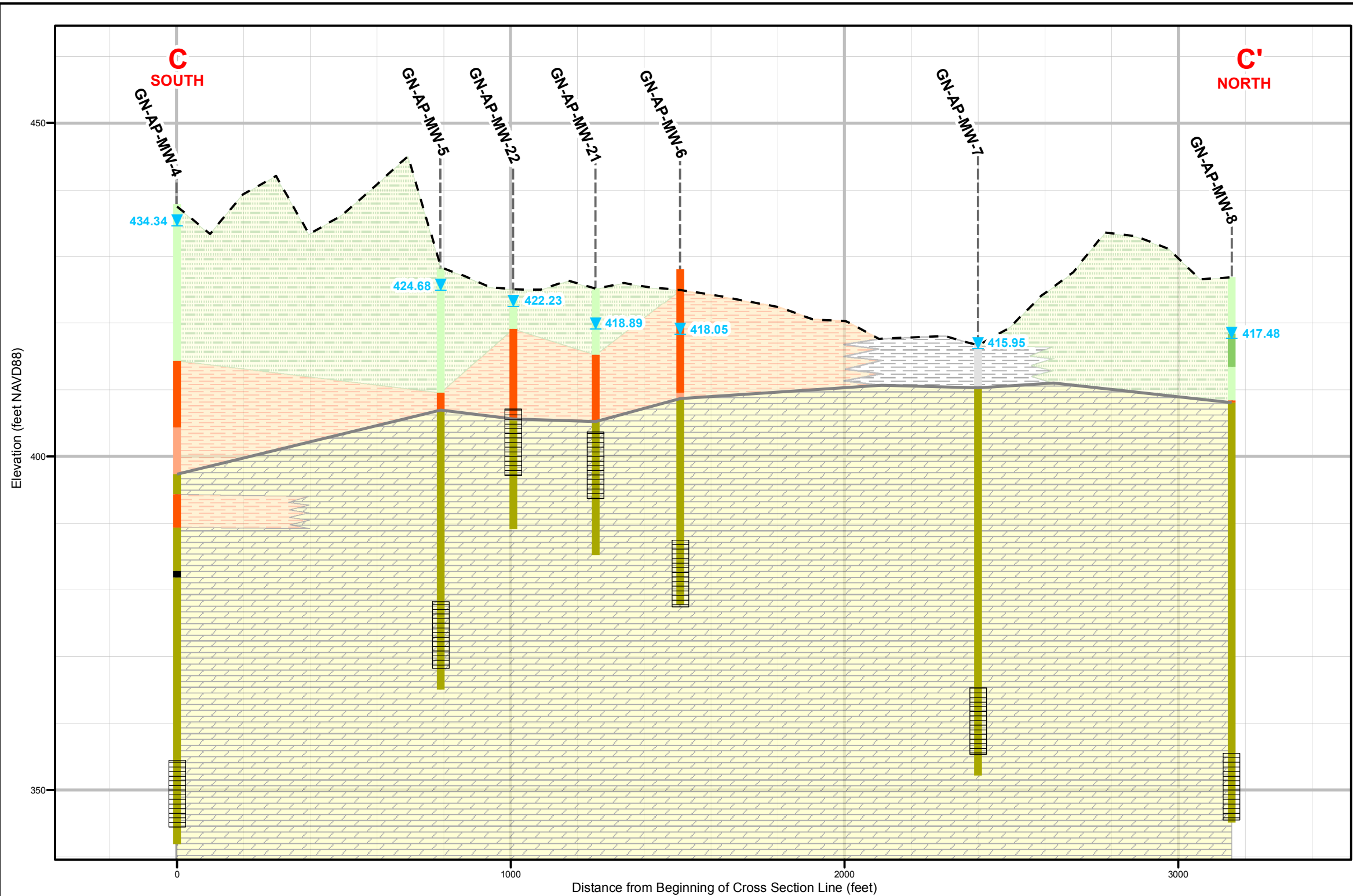
SCALE	AS SHOWN
DATE	9/21/2020
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE

GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND

FIGURE NO

FIGURE 4B

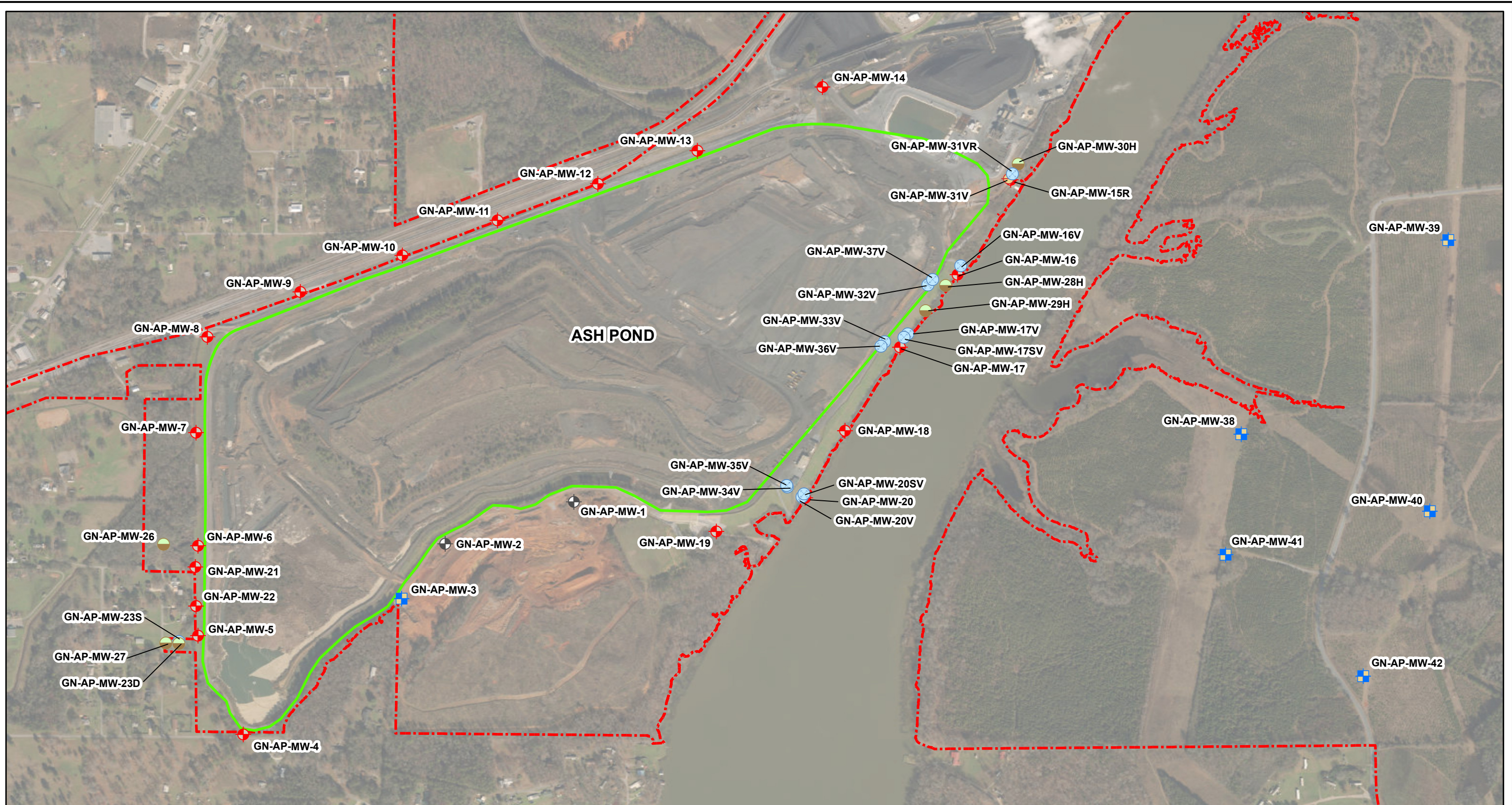


Notes: 1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevation data were measured on April 29, 2020.
 4. Vertical exaggeration = 20x.

Legend		Borehole Description		Geologic Units	
	Groundwater Elevation		Topsoil		Fill
	Well Location		Lean Clay		Clays
	Ground Surface Elevation		Silty Clay		Silts
	Screen Interval		Silt		Dolostone
			Sandy Silt		Discontinuity
			Dolostone		Unit Boundary
			Discontinuity		

SCALE	AS SHOWN	DRAWING TITLE GEOLOGIC CROSS SECTION C - C' PLANT GASTON ASH POND
DATE	9/21/2020	
DRAWN BY	KWR	
CHECKED BY	GBD	
FIGURE NO		FIGURE 4C

SCALE		AS SHOWN	DRAWING TITLE GEOLOGIC CROSS SECTION C - C' PLANT GASTON ASH POND
DATE		9/21/2020	
DRAWN BY		KWR	
CHECKED BY		GBD	
FIGURE NO			FIGURE 4C
			Southern Company



Legend

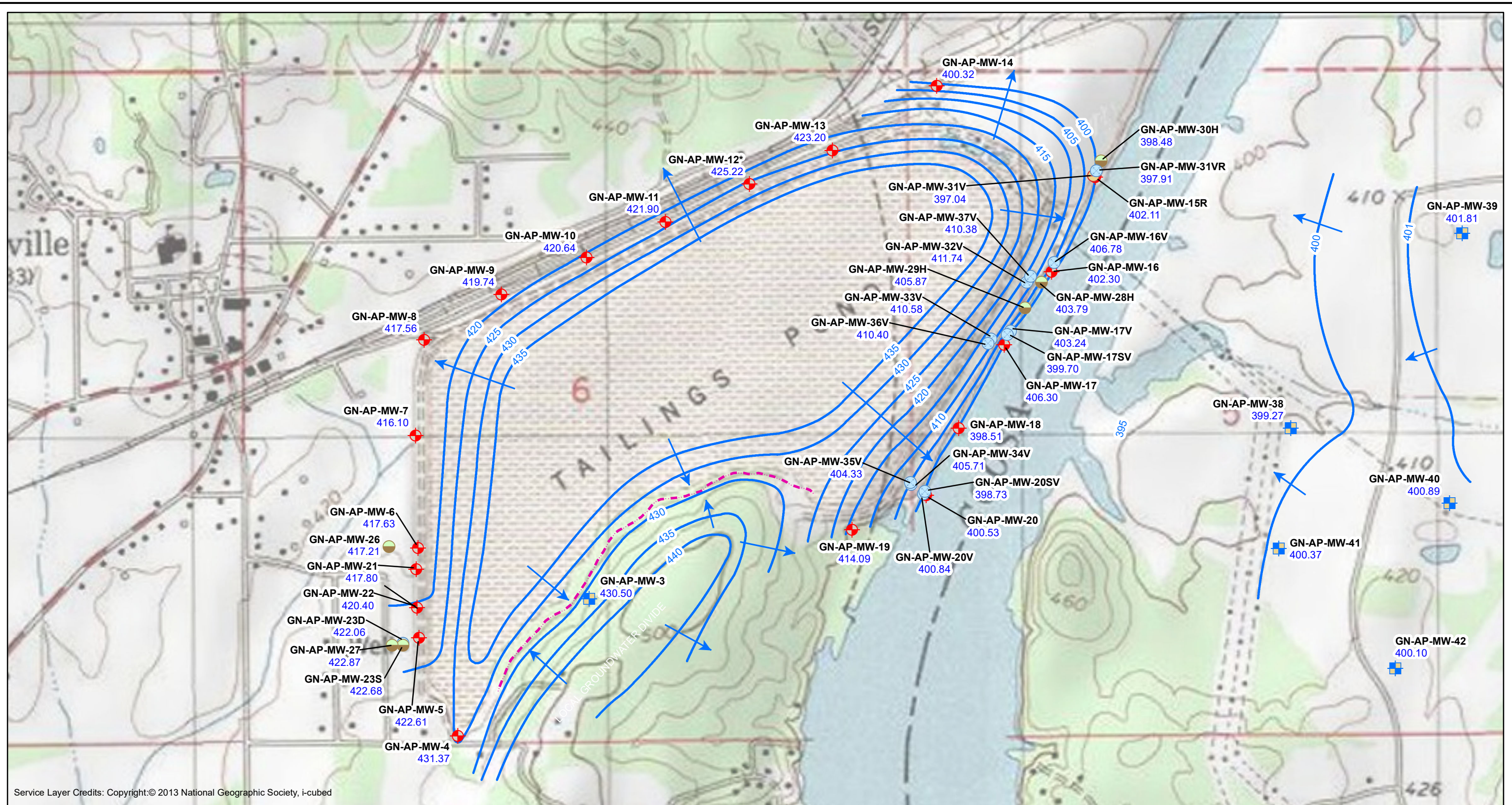
Downgradient Monitoring Well	Ash Pond Boundary
Upgradient Monitoring Well	Property Boundary (Approximate)
Horizontal Delineation Well	
Vertical Delineation Well	
Piezometer	
Abandoned Monitoring Well	



NOTES:
 1. Monitoring wells GN-AP-MW-1 and GN-AP-MW-2 were abandoned in October 2019 due to construction activities.
 2. Upgradient wells GN-AP-MW-38 through GN-AP-MW-42 were installed in February 2021.

SCALE	1:9000
DATE	6/23/2021
DRAWN BY	KAR
CHECKED BY	GBD

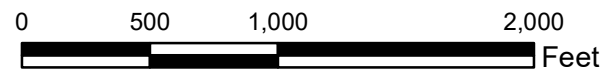
DRAWING TITLE	
MONITORING WELL LOCATION MAP PLANT GASTON ASH POND	
FIGURE NO	FIGURE 5
Southern Company	



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Legend

- ◆ Downgradient Monitoring Well
 - ◆ Upgradient Monitoring Well
 - Horizontal Delineation Well
 - ⊗ Vertical Delineation Well
 - Piezometer
 - Potentiometric Surface Contours (ft NAVD88)
 - Approximate Groundwater Flow Direction
 - - - Drainage Ditch
- GN-AP-MW-3** Well ID
430.50 Groundwater Elevation



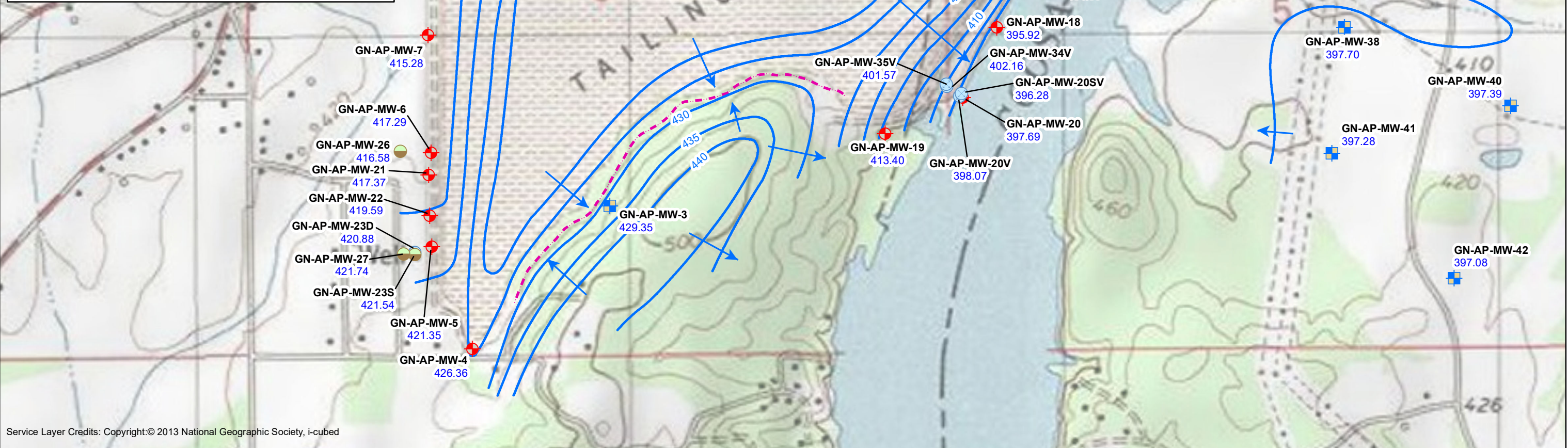
- NOTES:
1. NAVD88 indicates North American Vertical Datum of 1988.
 2. GN-APM-MW-12* was under artesian conditions at time of measurement.
 3. Upgradient wells GN-APM-MW-38 through 42 were measured on April 12 and April 13, 2021. All other wells were measured on March 29, 2021.
 4. Average daily gage height at USGS Coosa River station at Plant Gaston was 398.61 ft NAVD88 on March 29, 2021.

SCALE	1:9000
DATE	12/6/2021
DRAWN BY	KAR
CHECKED BY	LPC

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 29, 2021 PLANT GASTON ASH POND	
FIGURE NO	FIGURE 6A
Southern Company	

Well ID	Geologic Unit Screened	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)
GN-AP-MW-17SV	Upper Knox Dolomite	420.27	26.8	404.26	394.26
GN-AP-MW-20SV	Upper Knox Dolomite	403.06	32.1	382.75	372.75
GN-AP-MW-20V	Mid-Lower Knox Dolomite	404.16	120.0	299.10	289.10
GN-AP-MW-17V	Middle Knox Dolomite	403.61	100.0	314.25	304.25
GN-AP-MW-16V	Mid-Lower Knox Dolomite	404.03	120.0	294.06	284.06
GN-AP-MW-23D	Mid-Lower Knox Dolomite	428.69	147.8	288.58	278.58
GN-AP-MW-32V	Mid-Lower Knox Dolomite	453.77	243.3	220.92	210.92
GN-AP-MW-33V	Mid-Lower Knox Dolomite	454.29	243.2	221.54	211.54
GN-AP-MW-34V	Mid-Lower Knox Dolomite	447.98	229.8	228.55	218.55
GN-AP-MW-31VR	Mid-Lower Knox Dolomite	438.65	194.4	253.78	243.78
GN-AP-MW-36V	Lower Knox Dolomite	454.37	349.0	124.84	104.84
GN-AP-MW-35V	Lower Knox Dolomite	449.39	353.9	114.98	94.98
GN-AP-MW-37V	Lower Knox Dolomite	453.46	347.7	125.29	105.29

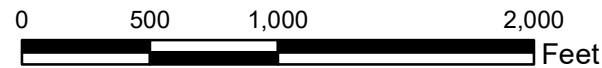
Wells in this table monitor different elevations within the Knox and display vertical gradients consistent with semi-confining conditions within the Knox. Vertical gradients from lower elevations/zones are upward along the south dike - river area.



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Legend

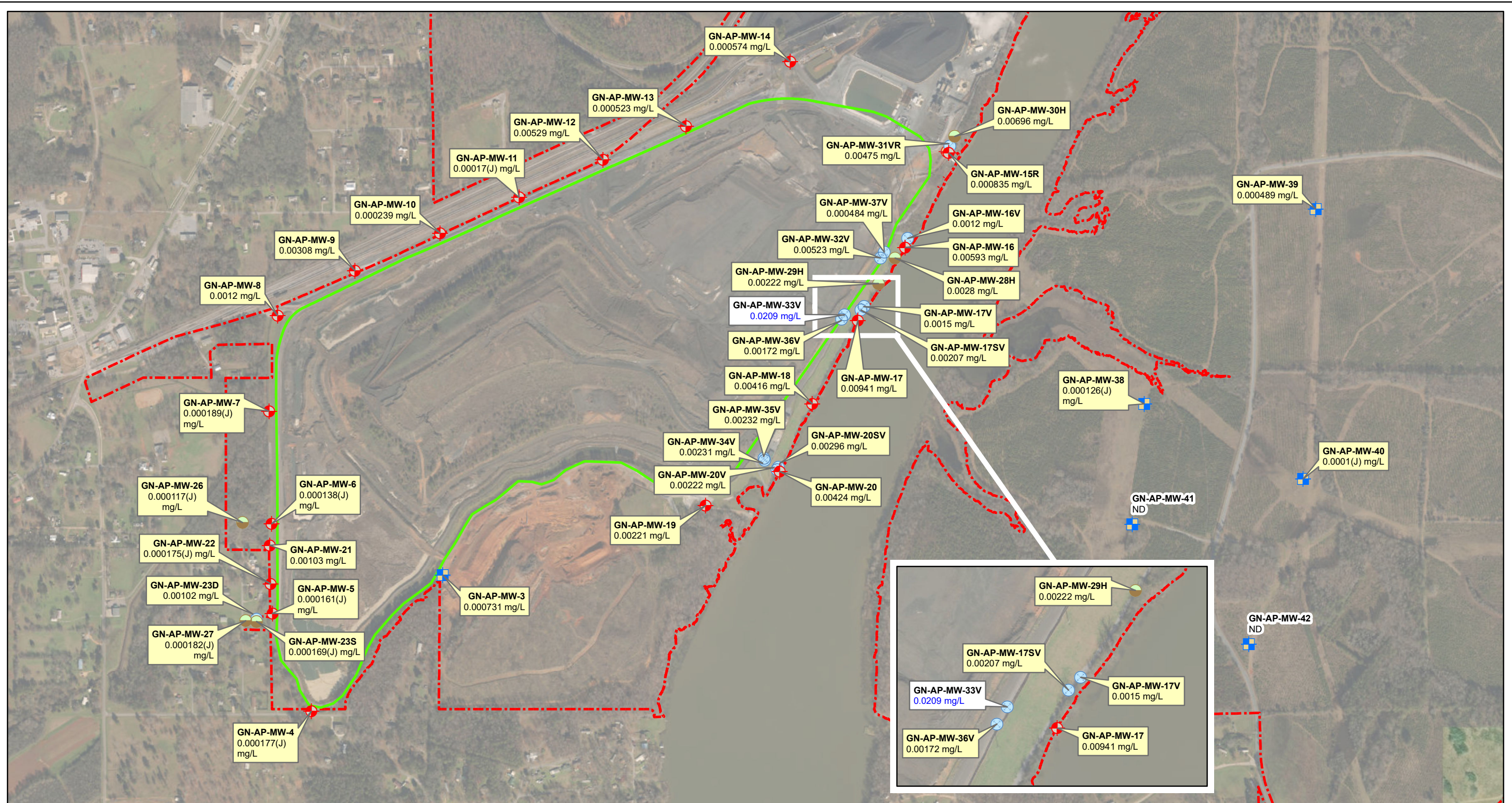
- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Potentiometric Surface Contours (ft NAVD88)
- Approximate Groundwater Flow Direction
- Drainage Ditch
- GN-AP-MW-3 429.35 Well ID Groundwater Elevation



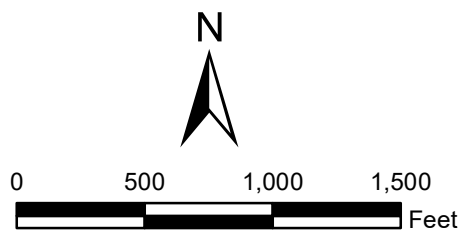
- NOTES:
1. NAVD88 indicates North American Vertical Datum of 1988.
 2. GN-APM-MW-12* and MW-13* were under artesian conditions at time of measurement.
 3. Average daily gage height at USGS Coosa River station at Plant Gaston was 396.15 ft NAVD88 on September 20, 2021.

SCALE	1:9000
DATE	11/29/2021
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP SEPTEMBER 20, 2021 PLANT GASTON ASH POND	
FIGURE NO	FIGURE 6B
Southern Company	

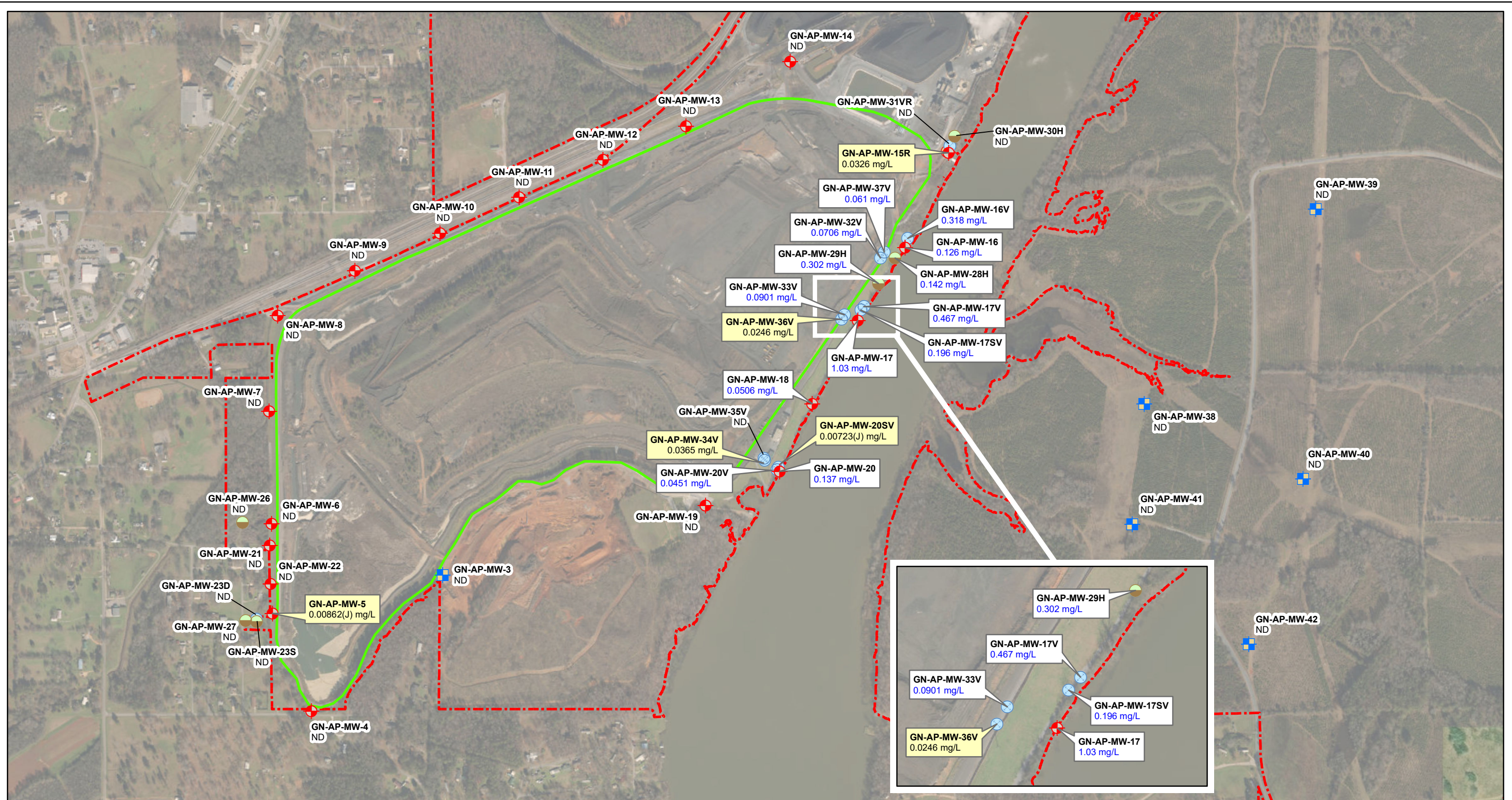


- Legend**
- Downgradient Monitoring Well
 - Upgradient Monitoring Well
 - Horizontal Delineation Well
 - Vertical Delineation Well
 - Piezometer
 - Ash Pond Boundary
 - Property Boundary (Approximate)



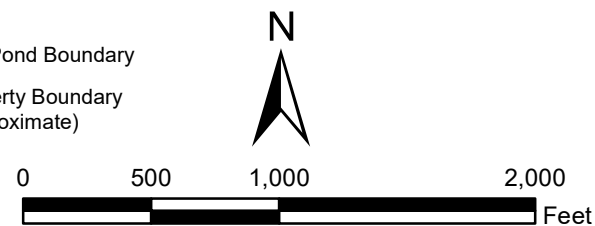
- NOTES:**
1. Wells were sampled from September 21 to 29, 2021.
 2. Bold concentrations in blue exceeded the Groundwater Protection Standard (GWPS) of 0.01 mg/L.
 3. ND indicates a concentration value less than the laboratory Method Detection Limit (MDL) of 0.000068 mg/L.
 4. (J) values indicate laboratory-estimated concentrations greater than or equal to the MDL and less than the Reporting Limit (RL).

SCALE	1:9000	DRAWING TITLE	
DATE	12/6/2021	ARSENIC CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND	
DRAWN BY	KAR	FIGURE NO	Southern Company
CHECKED BY	GBD	FIGURE 7A	



Legend

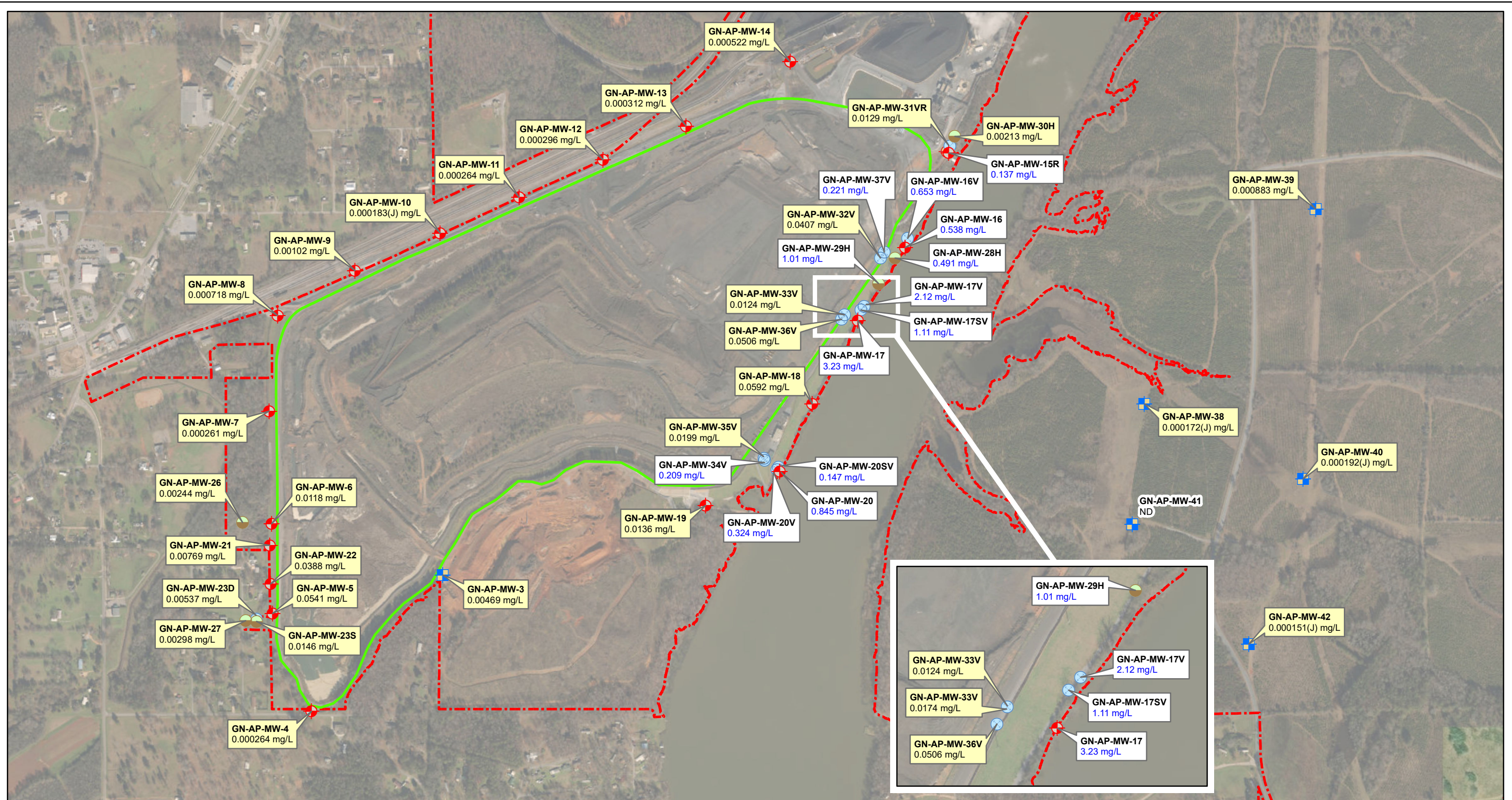
- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Ash Pond Boundary
- Property Boundary (Approximate)



NOTES:

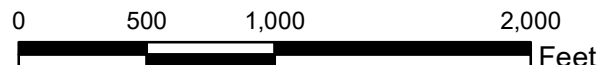
1. Wells were sampled from September 21 to 29, 2021.
2. Bold concentrations in blue exceed the Groundwater Protection Standard of 0.04 mg/L.
3. ND indicates concentrations less than the laboratory Method Detection Limit (MDL) of 0.007105 mg/L.
4. J values indicate laboratory-estimated concentrations greater than or equal to the MDL and less than the Reporting Limit (RL).

SCALE	1:9000	DRAWING TITLE	
DATE	12/6/2021	LITHIUM CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND	
DRAWN BY	KAR		
CHECKED BY	GDB	FIGURE NO	FIGURE 7B
		Southern Company	



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Ash Pond Boundary
- Property Boundary (Approximate)

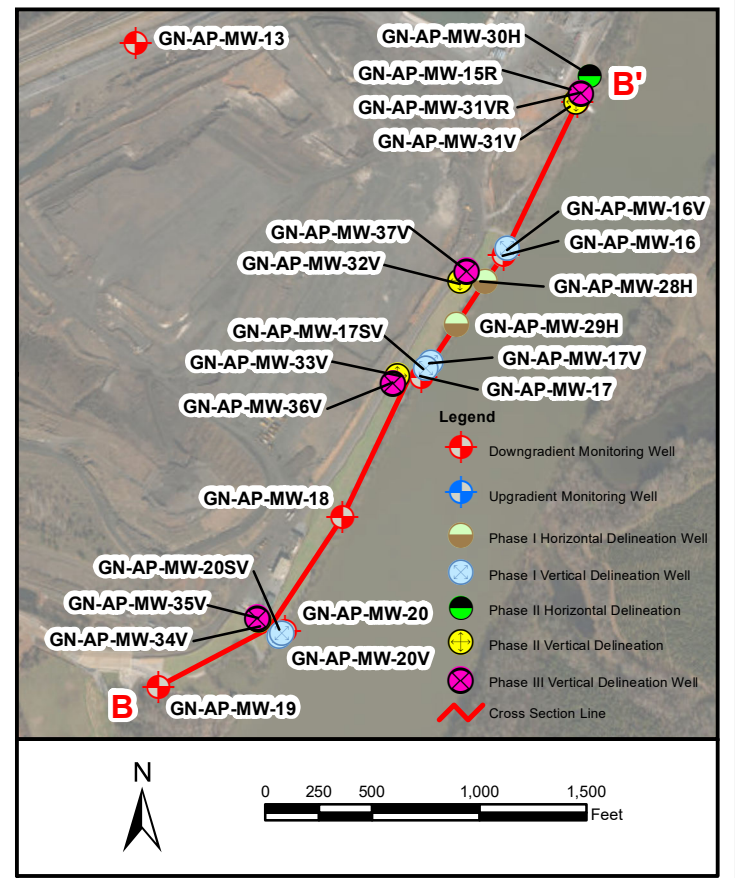
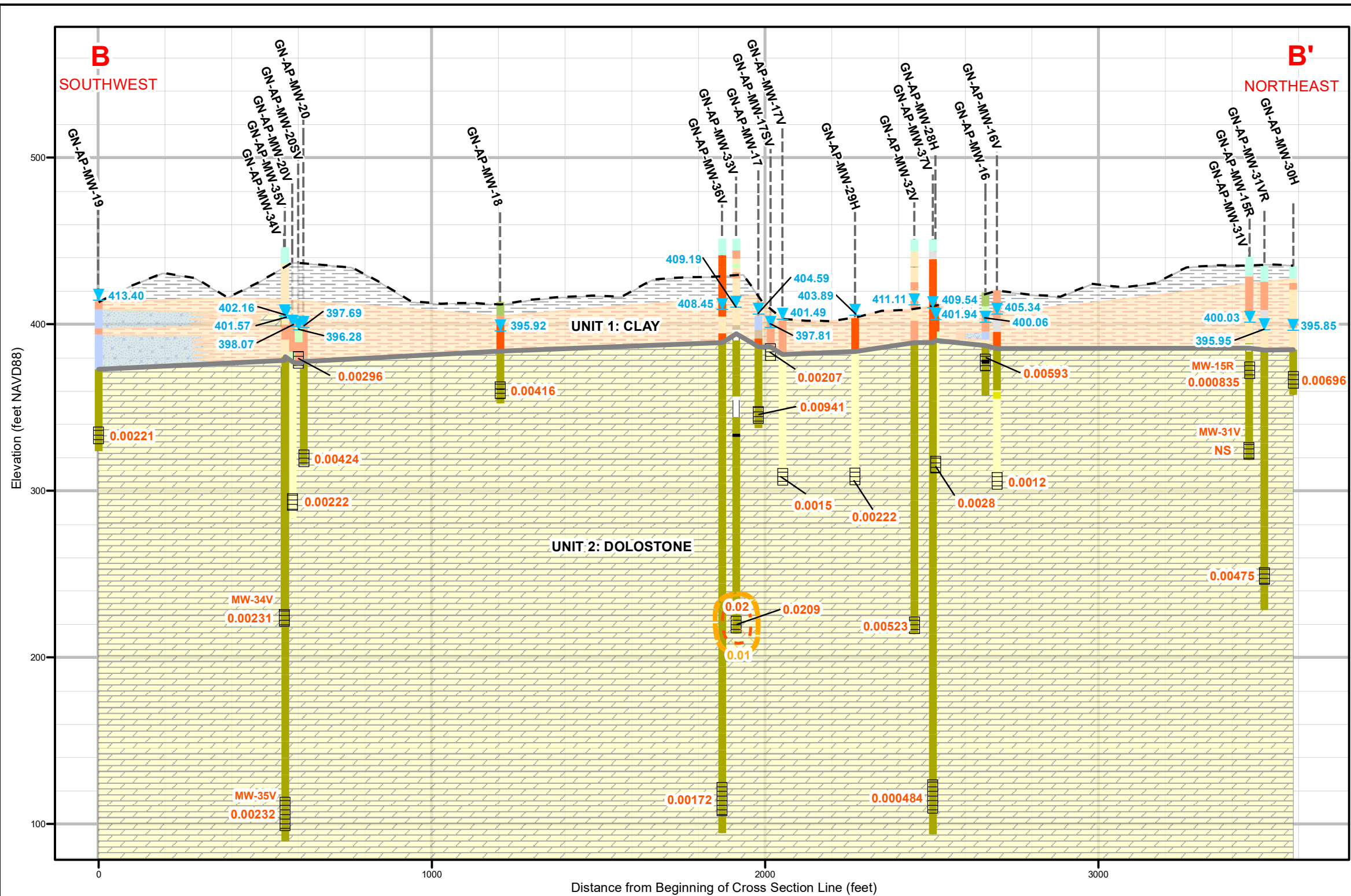


NOTES:

1. Wells were sampled from September 21 to 29, 2021.
2. Bold concentrations in blue exceeded the Groundwater Protection Standard of 0.1 mg/L.
3. ND indicates concentration less than the laboratory Method Detection Limit (MDL) of 0.000068 mg/L.
4. J values indicate laboratory-estimated concentrations greater than or equal to the MDL and less than the Reporting Limit (RL).

SCALE	1:9000
DATE	12/7/2021
DRAWN BY	JEM
CHECKED BY	KWR

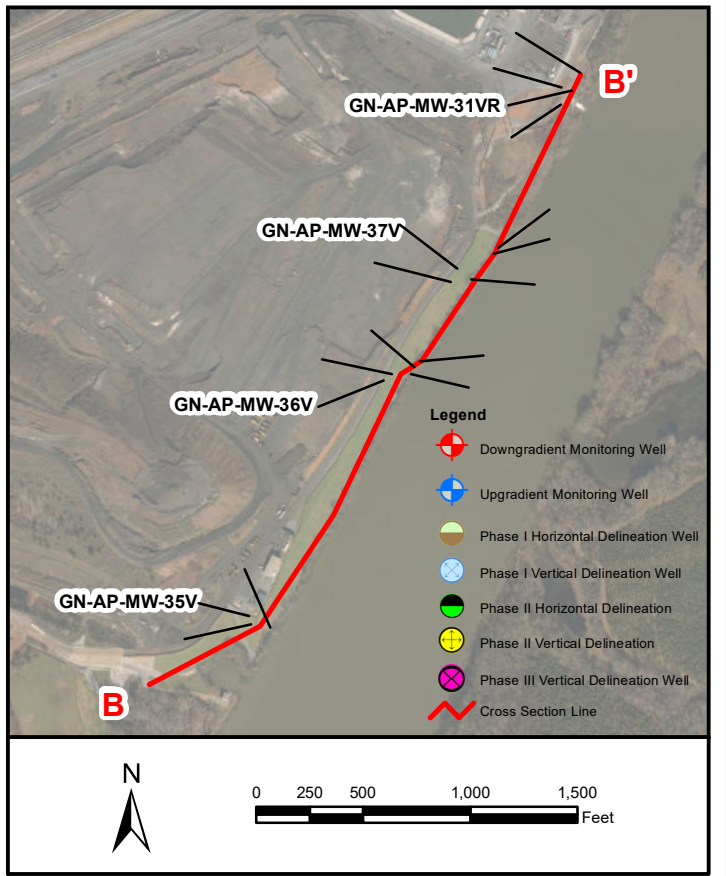
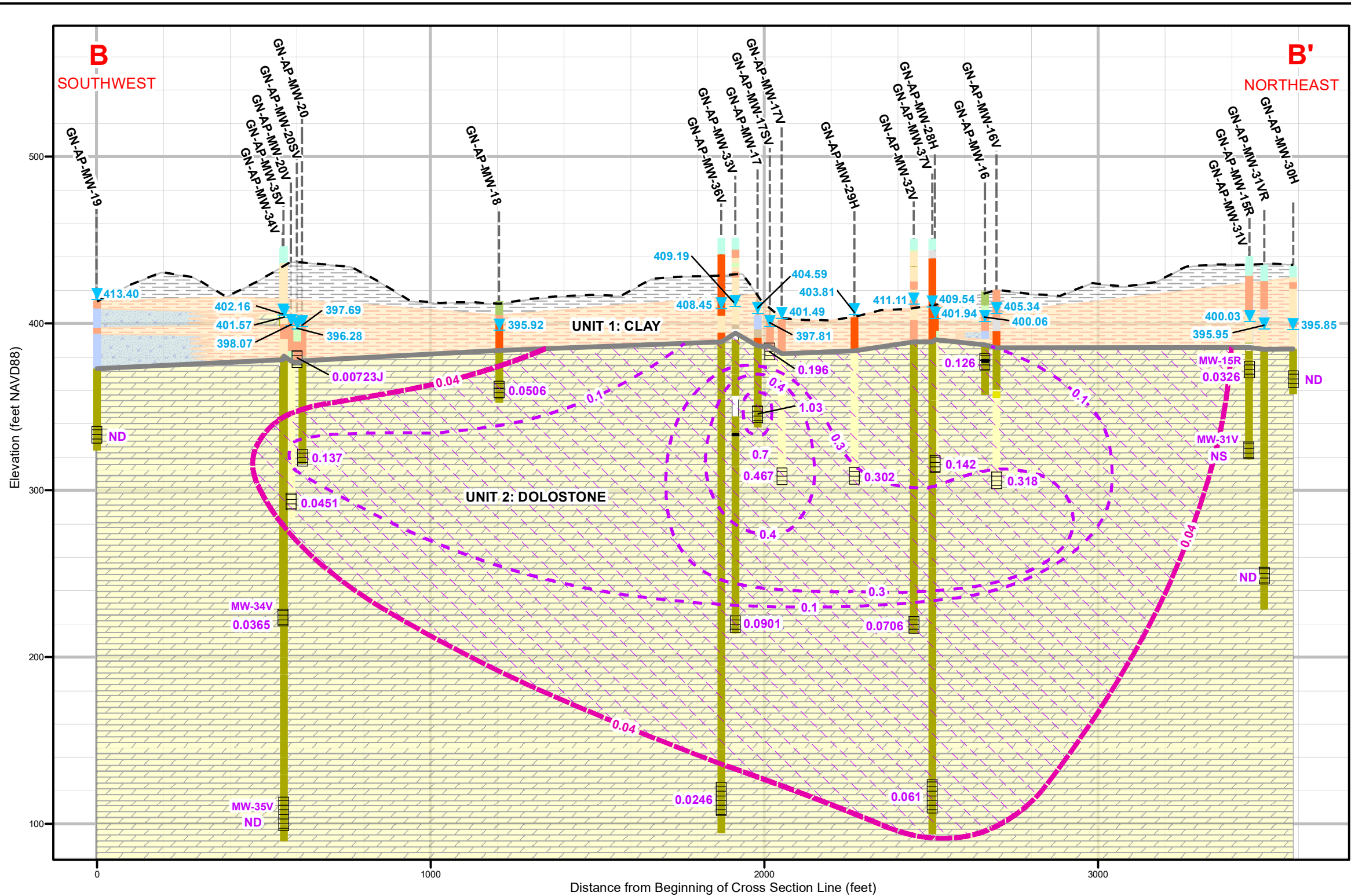
DRAWING TITLE	
MOLYBDENUM CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND	
FIGURE NO	FIGURE 7C
Southern Company	



- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on September 20, 2021.
 4. Water samples were collected between September 21 and 29, 2021.
 5. mg/L indicates milligrams per liter.
 6. NS indicates not sampled.
 7. GWPS indicates groundwater protection standard.
 8. Vertical exaggeration = 5x.

Legend Groundwater Elevation Well Location Ground Surface Elevation Screen Interval Arsenic Isoconcentration Contour Arsenic GWPS Isoconcentration Contour Area Exceeding GWPS for Arsenic 0.0209 Arsenic concentration (mg/L) 0.01 Arsenic GWPS (mg/L)		Borehole Description No Recovery Hydroexcavation Fill Rock Flour or Gypsum Topsoil Fat Clays Lean Clays Silty Clay Clayey Sand Clayey Gravel Sandstone Limestone Partially Weathered Rock Dolostone Discontinuity		Geologic Units Fill Clays Bedrock Residuum Gravel with Clay Dolostone Discontinuity Unit Boundary	
---	--	---	--	--	--

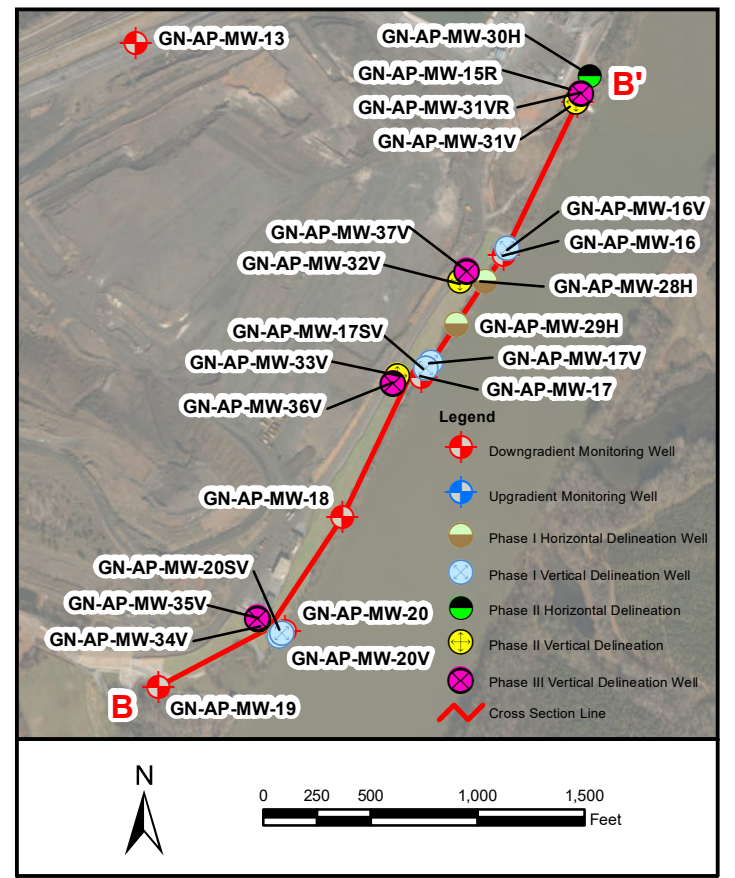
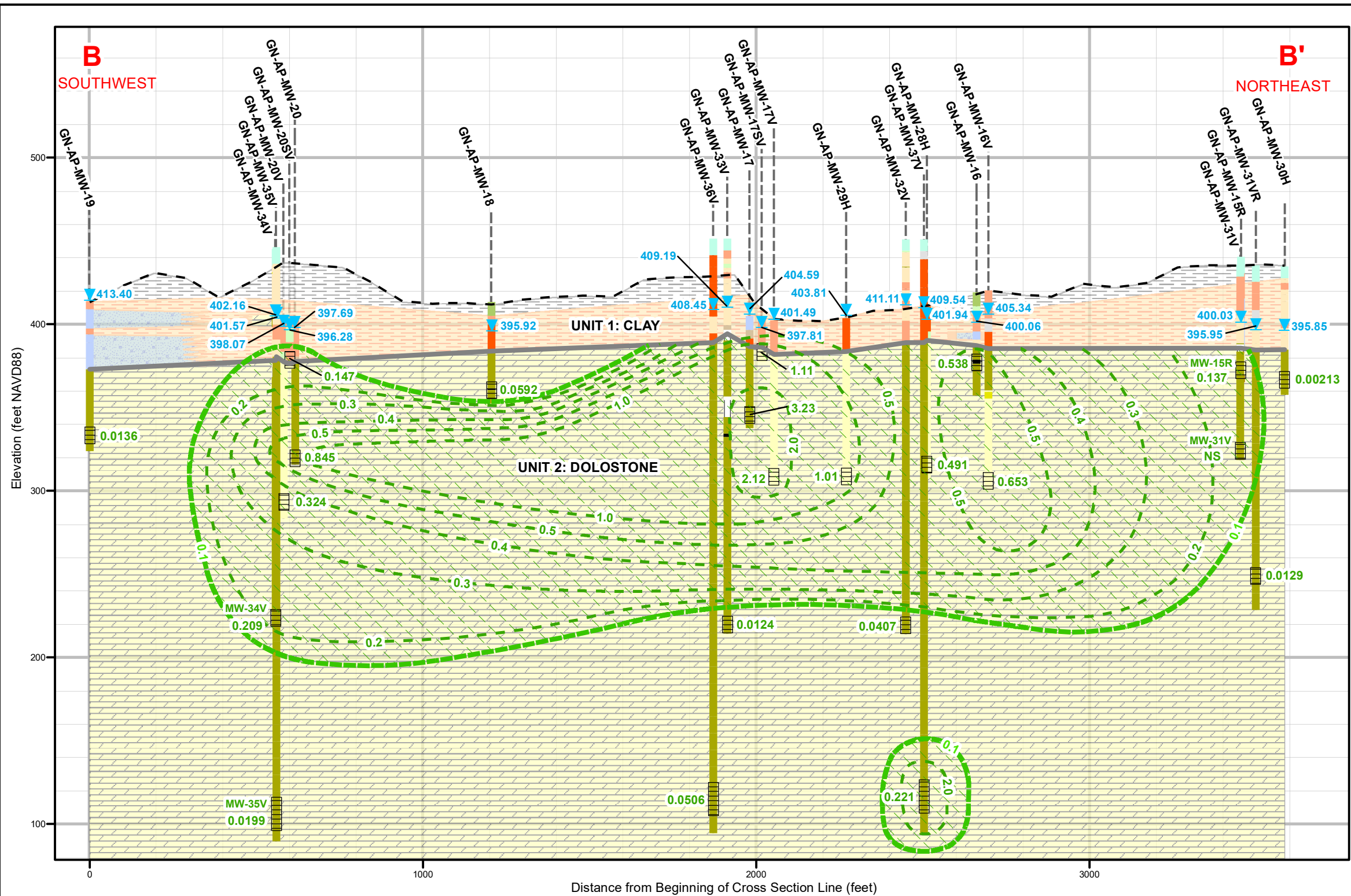
SCALE	AS SHOWN	DRAWING TITLE
DATE	12/3/2021	
DRAWN BY	KWR	FIGURE NO
CHECKED BY	GBD	
		ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND
		FIGURE 8A
		Southern Company



- Notes:
- Source of ground surface elevation data: Lidar
 - NAVD88 indicates North American Vertical Datum of 1988.
 - Groundwater elevations were measured on September 20, 2021.
 - Water samples were collected between September 21 and 29, 2021.
 - mg/L indicates milligrams per liter.
 - J indicates a laboratory estimated concentration between the analytical method detection limit and the laboratory reporting limit.
 - ND indicates not detected above the laboratory method detection limit.
 - NS indicates not sampled.
 - GWPS indicates groundwater protection standard.
 - Vertical exaggeration = 5x.

Legend		Borehole Description		Geologic Units	
	Groundwater Elevation		No Recovery		Fill
	Well Location		Hydroexcavation		Clays
	Ground Surface Elevation		Fill		Bedrock Residuum Gravel with Clay
	Screen Interval		Rock Flour or Gypsum		Dolostone
	Lithium Isoconcentration Contour		Topsoil		Discontinuity
	Lithium GWPS Isoconcentration Contour		Fat Clays		Unit Boundary
	Area Exceeding GWPS for Lithium		Clayey Gravel		
	0.137 Lithium concentration (mg/L)		Lean Clays		
	0.04 Lithium GWPS (mg/L)		Silty Clay		
			Sandstone		
			Limestone		
			Partially Weathered Rock		
			Dolostone		
			Discontinuity		

SCALE	AS SHOWN	DRAWING TITLE
DATE	12/3/2021	
DRAWN BY	KWR	
CHECKED BY	GBD	FIGURE NO
		FIGURE 8B
		Southern Company



Notes: 1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on September 20, 2021.
 4. Water samples were collected between September 21 and 29, 2021.
 5. mg/L indicates milligrams per liter.
 6. NS indicates not sampled.
 7. GWPS indicates groundwater protection standard.
 8. Vertical exaggeration = 5x.

Legend		Borehole Description		Geologic Units	
Groundwater Elevation	Molybdenum Isoconcentration Contour	No Recovery	Fat Clays	Clayey Gravel	Fill
Well Location	Molybdenum GWPS Isoconcentration Contour	Hydroexcavation	Lean Clays	Sandstone	Clays
Ground Surface Elevation	Area Exceeding GWPS for Molybdenum	Fill	Silty Clay	Limestone	Bedrock Residuum Gravel with Clay
Screen Interval	0.221 Molybdenum concentration (mg/L)	Rock Flour or Gypsum	Silt	Partially Weathered Rock	Dolostone
	0.1 Molybdenum GWPS (mg/L)	Topsoil	Clayey Sand	Discontinuity	Discontinuity
			Discontinuity	Unit Boundary	

SCALE	AS SHOWN	DRAWING TITLE MOLYBDENUM CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND
DATE	12/7/2021	
DRAWN BY	KWR	
CHECKED BY	GBD	FIGURE NO FIGURE 8C






Appendix A

Client Borehole ID <u>GN-AP-MW-38</u>		Stantec Boring No. <u>GN-AP-MW-38</u>	
Client <u>Southern Company</u>		Boring Location <u>994,660.06 N; 465,642.67 E</u>	
Project Number <u>175520211</u>		Surface Elevation <u>402.50 ft</u>	Elevation Datum <u>NAVD 1988</u>
Project Name <u>Plant Gaston</u>		Date Started <u>2/3/21</u>	Completed <u>2/6/21</u>
Project Location <u>Talladega Co, Alabama</u>		Depth to Water <u>4.0 ft</u>	Date/Time <u>3/1/21</u>
Inspector <u>A. Stevens</u>	Logger <u>A. Stevens</u>	Depth to Water <u>3.8 ft</u>	Date/Time <u>3/22/21</u>
Drilling Contractor <u>Cascade (Subcontractor)</u>		Drill Rig Type and ID <u>Truck Mounted PS-150 Sonic</u>	
Overburden Drilling and Sampling Tools (Type and Size) <u>4" X 6" Rotosonic</u>			
Sampler Hammer Type <u>N/A</u>	Weight <u>N/A</u>	Drop <u>N/A</u>	Efficiency <u>N/A</u>
Reviewed By <u>J. Massey</u>		Approved By <u>E. Smith</u>	

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
0	0.0	402.5	Top of Hole						
			FAT CLAY TRACE SAND, CH, 2.5YR 5/8 (red) to 5YR 4/6 (yellowish red), high plasticity, firm, moist to dry, iron oxide staining, well graded		RS01	0.0 - 5.0	2.0	N/A	
					RS02	5.0 - 15.0	9.0	N/A	
	13.0	389.5	SANDY FAT CLAY, CH, 2.5YR 5/8 (red) to 5YR 4/6 (yellowish red), medium to high plasticity, moist to dry						
	16.0	386.5	CLAYEY WELL GRADED SAND, SC, 10Y 8/1 (light greenish gray) to 7.5YR 6/8 (reddish yellow), fine to medium, low to medium plasticity						
	19.5	383.0							





STANTEC 1755 STD GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-38</u>	Stantec Boring No. <u>GN-AP-MW-38</u>
Client <u>Southern Company</u>	Boring Location <u>994,660.06 N; 465,642.67 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>402.50 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation	Description	Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
20				RS03	15.0 - 25.0	10.0	N/A	
			FAT CLAY WITH SAND, CH, 10YR 5/6 (yellowish brown) to 10YR 4/4 (dark yellowish brown) <i>(Continued)</i>					
28.0	374.5							
30				RS04	25.0 - 35.0	7.0	N/A	
			CLAYEY SAND, SC, 7.5YR 6/8 (reddish yellow), very fine to medium, dense, moist to dry, iron oxide staining					
39.0	363.5							
40				RS05	35.0 - 45.0	8.0	N/A	
			CLAYEY WELL GRADED SAND WITH GRAVEL, SC, 5Y 7/3 (pale yellow), non to low plasticity, moist to dry, moderately graded, Saprolitic, more gravel towards the bottom					

STANTEC 1755 STD_GASTON.GPJ BC 1755 STD.DAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-38</u>	Stantec Boring No. <u>GN-AP-MW-38</u>
Client <u>Southern Company</u>	Boring Location <u>994,660.06 N; 465,642.67 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>402.50 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
45	45.0	357.5	 WELL GRADED GRAVEL WITH SAND, GW, 5Y 7/3 (pale yellow), non to low plasticity, moist to dry, Saprolitic						
				RS06	45.0 - 50.0	1.5	N/A		
50	50.0	352.5	 Dolomite, light gray to dark gray, fine grained, soft, damp to dry, Heavily fractured						
				RS07	50.0 - 55.0	5.0	N/A		
55									
	59.0	343.5	 Dolomite, light gray to dark gray, microcrystalline, soft, damp to dry, iron oxide staining, Heavily fractured, sand present						
60				RS08	55.0 - 65.0	5.0	N/A		
	62.0	340.5	 Dolomite, light gray to dark gray, fine grained, soft, damp to dry, Heavily fractured						
65	65.0	337.5	No Recovery						

STANTEC 1755 STD_GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-38</u>	Stantec Boring No. <u>GN-AP-MW-38</u>
Client <u>Southern Company</u>	Boring Location <u>994,660.06 N; 465,642.67 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>402.50 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
70			No Recovery <i>(Continued)</i>		RS09	65.0 - 75.0	0.0	N/A	
	71.0	331.5							
	72.0	330.5	No Recovery (soft)						
			No Recovery						
75	75.0	327.5							

No Refusal /
Bottom of Hole at 75.0 Ft.

Top of Rock = 50.0 Ft.
Top of Rock Elevation = 352.5 Ft.








1. Depths are reported in feet below ground surface
 2. Elevation in reference to feet above NAVD 1988 datum
- Depths are reported in feet below ground surface

Client Borehole ID <u>GN-AP-MW-39</u>		Stantec Boring No. <u>GN-AP-MW-39</u>	
Client <u>Southern Company</u>		Boring Location <u>996,180.64 N; 467,026.97 E</u>	
Project Number <u>175520211</u>		Surface Elevation <u>413.93 ft</u>	Elevation Datum <u>NAVD 1988</u>
Project Name <u>Plant Gaston</u>		Date Started <u>2/21/21</u>	Completed <u>2/22/21</u>
Project Location <u>Talladega Co, Alabama</u>		Depth to Water <u>16.2 ft</u>	Date/Time <u>3/1/21</u>
Inspector <u>A. Stevens</u>	Logger <u>A. Stevens</u>	Depth to Water <u>15.6 ft</u>	Date/Time <u>3/22/21</u>
Drilling Contractor <u>Cascade (Subcontractor)</u>		Drill Rig Type and ID <u>Truck Mounted PS-150 Sonic</u>	
Overburden Drilling and Sampling Tools (Type and Size) <u>4" X 6" Rotosonic</u>			
Sampler Hammer Type <u>N/A</u>	Weight <u>N/A</u>	Drop <u>N/A</u>	Efficiency <u>N/A</u>
Reviewed By <u>J. Massey</u>		Approved By <u>E. Smith</u>	

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
0	0.0	413.9							
			Top of Hole						
			FAT CLAY SOME GRAVEL, CH, 10YR 4/4 (dark yellowish brown) to 10YR 7/4 (very pale brown), medium to high plasticity, hard, moist to dry, Angular to subrounded Quartz, plagioclase, kaolinite gravel present						
	3.5	410.4		RS01		0.0 - 6.0	4.0	N/A	
	4.4	409.5	POORLY GRADED GRAVEL WITH SAND, GP, 10YR 5/6 (yellowish brown), fine to coarse, loose to dense, dry, no odor, no staining						
5			FAT CLAY SOME GRAVEL, CH, 10YR 5/6 (yellowish brown), medium to high plasticity, hard, moist to dry						
	7.5	406.4							
	8.5	405.4	WELL GRADED GRAVEL WITH CLAY WITH SAND, GC, very fine to coarse, very loose, weak cementation, Dolostone, rhombic cleavage, moderately weathered clasts						
	9.5	404.4							
10			FAT CLAY, CH, 2.5YR 5/8 (red), high plasticity, firm, dry, iron oxide staining, well graded						
			FAT CLAY WITH GRAVEL, CH, 2.5YR 4/3 (reddish brown) with 2.5Y 6/4 (light yellowish brown), very fine to medium, high plasticity, firm, moist to dry, iron oxide staining, Rounded quartz gravel and subangular dolostone	RS02		6.0 - 16.0	10.0	N/A	
	17.0	396.9							
	18.0	395.9	CLAYEY POORLY GRADED SAND, SC, 10YR 4/3 (brown), fine to medium, low plasticity, loose, wet						
20									

STANTEC 1755 STD GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-39</u>	Stantec Boring No. <u>GN-AP-MW-39</u>
Client <u>Southern Company</u>	Boring Location <u>996,180.64 N; 467,026.97 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>413.93 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
20			FAT CLAY WITH GRAVEL, CH, 10YR 4/3 (brown) to 10YR 5/6 (yellowish brown), high plasticity, firm to hard, moist, Dolostone fragments (Continued)		RS03	16.0 - 26.0	10.0	N/A	
25	388.9		CLAYEY WELL GRADED GRAVEL SOME SAND, GC, 10YR 5/6 (yellowish brown), very fine to coarse, loose, wet, poorly graded, Dolostone, rhombus cleavage weathered						
26.0	387.9			LEAN CLAY, CL, 10YR 5/4 (yellowish brown), non to low plasticity, very soft, wet					
29.0	384.9		ORGANIC CLAY, OL/OH, 10YR 2/1 (black), very fine to fine, medium to high plasticity, dry to moist, slight organic odor, moderate cementation						
30.0	383.9			Slate, gray to light gray, very fine grained, very soft, thin bedded, slightly weathered, wet to damp, wavy, Graphitic	RS04	26.0 - 36.0	8.0	N/A	
35									
40					RS05	36.0 - 46.0	2.0	N/A	

STANTEC 1755 STD_GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-39</u>	Stantec Boring No. <u>GN-AP-MW-39</u>
Client <u>Southern Company</u>	Boring Location <u>996,180.64 N; 467,026.97 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>413.93 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
45			Slate, gray to light gray, very fine grained, very soft, thin bedded, slightly weathered, wet to damp, wavy, Graphitic (Continued)						
					RS06	46.0 - 52.0	2.0	N/A	
50									
					RS07	52.0 - 56.0	1.5	N/A	
55	55.0	358.9	Slate, dark gray to black, very fine grained, very soft, slightly weathered, wet to damp, slight organic odor, Wavy						
					RS08	56.0 - 63.0	4.0	N/A	
60									
					RS09	63.0 - 66.0	3.0	N/A	
65	66.0	347.9	No Recovery						

STANTEC 1755 STD GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-39</u>	Stantec Boring No. GN-AP-MW-39
Client <u>Southern Company</u>	Boring Location <u>996,180.64 N; 467,026.97 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>413.93 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
70			No Recovery <i>(Continued)</i>		RS10	66.0 - 76.0	0.0	N/A	
75	76.0	337.9							

No Refusal /
Bottom of Hole at 76.0 Ft.

Top of Rock = 30.0 Ft.
Top of Rock Elevation = 383.9 Ft.

1. Depths are reported in feet below ground surface
 2. Elevation in reference to feet above NAVD 1988 datum
- Depths are reported in feet below ground surface

Client Borehole ID <u>GN-AP-MW-40</u>	Stantec Boring No. <u>GN-AP-MW-40</u>
Client <u>Southern Company</u>	Boring Location <u>994,043.73 N; 466,890.99 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>411.79 ft</u> Elevation Datum <u>NAVD 1988</u>
Project Name <u>Plant Gaston</u>	Date Started <u>2/9/21</u> Completed <u>2/17/21</u>
Project Location <u>Talladega Co, Alabama</u>	Depth to Water <u>12.2 ft</u> Date/Time <u>3/1/21</u>
Inspector <u>A. Stevens</u> Logger <u>A. Stevens</u>	Depth to Water <u>11.9 ft</u> Date/Time <u>3/22/21</u>
Drilling Contractor <u>Cascade (Subcontractor)</u>	Drill Rig Type and ID <u>Truck Mounted PS-150 Sonic</u>
Overburden Drilling and Sampling Tools (Type and Size) <u>4" X 6" Rotosonic</u>	
Sampler Hammer Type <u>N/A</u> Weight <u>N/A</u> Drop <u>N/A</u> Efficiency <u>N/A</u>	
Reviewed By <u>J. Massey</u>	Approved By <u>E. Smith</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
0	0.0	411.8	Top of Hole						
			FAT CLAY TRACE GRAVEL, CH, 2.5YR 5/8 (red) to 5YR 6/6 (reddish yellow), medium to high plasticity, firm, wet to moist, iron oxide staining, well graded, Subrounded gravel		RS01	0.0 - 6.0	4.0	N/A	
5									
10					RS02	6.0 - 16.0	10.0	N/A	
15	16.0	395.8	WELL GRADED GRAVEL WITH CLAY WITH SAND, GC, 7.5YR 6/6 (reddish yellow), very fine to coarse, low to medium plasticity, dense, moist, iron oxide staining						
20									

STANTEC 1755 STD_GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-40</u>	Stantec Boring No. <u>GN-AP-MW-40</u>
Client <u>Southern Company</u>	Boring Location <u>994,043.73 N; 466,890.99 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>411.79 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
20			WELL GRADED GRAVEL WITH CLAY WITH SAND, GC, 7.5YR 6/6 (reddish yellow), very fine to coarse, low to medium plasticity, dense, moist, iron oxide staining <i>(Continued)</i>		RS03	16.0 - 26.0	4.0	N/A	
25						RS04	26.0 - 36.0	2.0	N/A
35	36.0	375.8	FAT CLAY, CH, 10YR 6/6 (brownish yellow) to 10YR 3/3 (dark brown), medium to high plasticity, firm, moist, Weight of hammer between 36-42						
40						RS05	36.0 - 46.0	8.0	N/A
	44.0	367.8							

STANTEC 1755 STD GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-40</u>	Stantec Boring No. <u>GN-AP-MW-40</u>
Client <u>Southern Company</u>	Boring Location <u>994,043.73 N; 466,890.99 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>411.79 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
45			SANDY WELL GRADED GRAVEL, GW, 7.5YR 5/6 (strong brown) to (), very fine to coarse, low to medium plasticity, moist to wet <i>(Continued)</i>						
47.0	364.8								
			SANDY WELL GRADED GRAVEL WITH CLAY, GW, 7.5YR 6/4 (light brown) to 7.5YR 5/6 (strong brown), very fine to coarse, low to medium plasticity, moist to wet						
50				RS06		46.0 - 56.0	7.5	N/A	
			SANDY WELL GRADED GRAVEL, GW, 10YR 7/3 (very pale brown) to (), very fine to coarse, low to medium plasticity, moist to wet						
52.0	359.8								
			SANDY WELL GRADED GRAVEL, GW, 10YR 7/3 (very pale brown) to (), very fine to coarse, low to medium plasticity, moist to wet						
55									
			GRAVELLY WELL GRADED SAND, SW, 10YR 7/6 (yellow) to 10YR 6/2 (light brownish gray), medium to coarse, loose, wet, weak cementation, poorly graded						
56.0	355.8								
			WELL GRADED GRAVEL WITH SAND, GW, 10YR 6/2 (light brownish gray), medium to coarse, loose, wet, weak cementation, well graded						
58.5	353.3								
			WELL GRADED GRAVEL WITH SAND, GW, 10YR 6/6 (brownish yellow), loose, wet, weak cementation, Grey						
60				RS07		56.0 - 66.0	4.0	N/A	
			WELL GRADED GRAVEL WITH SAND, GW, 10YR 6/6 (brownish yellow), loose, wet, weak cementation, Grey						
60.0	351.8								
			SANDY WELL GRADED GRAVEL, GW, 10YR 7/3 (very pale brown) to (), very fine to coarse, low to medium plasticity, moist to wet						
63.0	348.8								
			SANDY WELL GRADED GRAVEL, GW, 10YR 7/3 (very pale brown) to (), very fine to coarse, low to medium plasticity, moist to wet						
65									
			WELL GRADED GRAVEL WITH SAND, GW, 10YR 4/6 (dark yellowish brown), Dolosrone fragments						
68.0	343.8								

STANTEC 1755 STD GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-40</u>	Stantec Boring No. GN-AP-MW-40
Client <u>Southern Company</u>	Boring Location <u>994,043.73 N; 466,890.99 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>411.79 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
70		●●●●●	WELL GRADED GRAVEL WITH SAND, GW, 10YR 4/6 (dark yellowish brown), Dolosrone fragments <i>(Continued)</i>		RS08	66.0 - 76.0	5.5	N/A	
75	76.0	335.8							

No Refusal /
Bottom of Hole at 76.0 Ft.

1. Depths are reported in feet below ground surface
 2. Elevation in reference to feet above NAVD 1988 datum
- Depths are reported in feet below ground surface

Client Borehole ID <u>GN-AP-MW-41</u>		Stantec Boring No. <u>GN-AP-MW-41</u>	
Client <u>Southern Company</u>		Boring Location <u>993,710.27 N; 465,533.06 E</u>	
Project Number <u>175520211</u>		Surface Elevation <u>404.61 ft</u>	Elevation Datum <u>NAVD 1988</u>
Project Name <u>Plant Gaston</u>		Date Started <u>2/6/21</u>	Completed <u>2/7/21</u>
Project Location <u>Talladega Co, Alabama</u>		Depth to Water <u>5.7 ft</u>	Date/Time <u>3/1/21</u>
Inspector <u>A. Stevens</u>	Logger <u>A. Stevens</u>	Depth to Water <u>5.4 ft</u>	Date/Time <u>3/22/21</u>
Drilling Contractor <u>Cascade (Subcontractor)</u>		Drill Rig Type and ID <u>Truck Mounted PS-150 Sonic</u>	
Overburden Drilling and Sampling Tools (Type and Size) <u>4" X 6" Rotosonic</u>			
Sampler Hammer Type <u>N/A</u>	Weight <u>N/A</u>	Drop <u>N/A</u>	Efficiency <u>N/A</u>
Reviewed By <u>J. Massey</u>		Approved By <u>E. Smith</u>	

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
0	0.0	404.6							
			Top of Hole						
			FAT CLAY TRACE SAND, CH, 2.5YR 5/8 (red) to 5YR 6/6 (reddish yellow), high plasticity, firm, moist to dry, iron oxide staining, well graded		RS01	0.0 - 6.0	3.0	N/A	
5									
	6.0	398.6							
			CLAYEY SAND TRACE GRAVEL, SC, 5YR 5/8 (yellowish red) to 2.5YR 6/8 (light red)						
	9.0	395.6							
10									
			CLAYEY SAND WITH GRAVEL, SC, 7.5YR 6/8 (reddish yellow), fine to medium, medium to high plasticity, moist to dry, iron oxide staining		RS02	6.0 - 16.0	6.5	N/A	
	12.5	392.1							
			FAT CLAY TRACE SAND, CH, 2.5YR 5/8 (red) to 5YR 4/6 (yellowish red), high plasticity, firm, moist to dry, iron oxide staining, well graded						
15									
	16.0	388.6							
			CLAYEY SAND SOME GRAVEL, SC, 7.5YR 6/8 (reddish yellow), fine to medium, moist, iron oxide staining						
	18.0	386.6							
			FAT CLAY WITH GRAVEL, CH, 2.5YR 5/8 (red) to 5YR 4/6 (yellowish red), high plasticity, firm, moist to dry, iron oxide staining, well graded						
	19.0	385.6							
20									


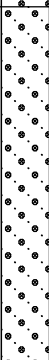


STANTEC 1755 STD_GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-41</u>	Stantec Boring No. <u>GN-AP-MW-41</u>
Client <u>Southern Company</u>	Boring Location <u>993,710.27 N; 465,533.06 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>404.61 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
20			WELL GRADED GRAVEL WITH CLAY, GC, 7.5YR 6/6 (reddish yellow), medium to coarse, low to medium plasticity, moist <i>(Continued)</i>		RS03	16.0 - 26.0	9.0	N/A	
21.5	383.1								
			FAT CLAY WITH GRAVEL, CH, 2.5YR 6/8 (light red) to 7.5YR 7/8 (reddish yellow), high plasticity, firm, moist to dry, iron oxide staining, well graded						
24.0	380.6								
25			WELL GRADED SAND WITH CLAY, SC, 7.5YR 7/6 (reddish yellow) to 10YR 5/3 (brown)						
29.0	375.6								
30			FAT CLAY WITH GRAVEL, CH, 7.5YR 7/6 (reddish yellow) to 5YR 4/4 (reddish brown), high plasticity, firm, moist to dry, iron oxide staining, well graded, Draft more brown		RS04	26.0 - 36.0	10.0	N/A	
35									
40			WELL GRADED SAND WITH GRAVEL, SC, 10YR 6/6 (brownish yellow), very fine to medium, low to medium plasticity, moist, Tanish large rock fragments scatter throughout		RS05	36.0 - 46.0	8.0	N/A	
40.0	364.6								




STANTEC 1755 STD_GASTON.GPJ BC:1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-41</u>	Stantec Boring No. <u>GN-AP-MW-41</u>
Client <u>Southern Company</u>	Boring Location <u>993,710.27 N; 465,533.06 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>404.61 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
45	45.0	359.6							
50			WELL GRADED GRAVEL WITH CLAY WITH SAND, GW-GC, 10YR 6/4 (light yellowish brown) to 10YR 8/2 (very pale brown), very fine to coarse, non to low plasticity, moist, Tanish						
				RS06		46.0 - 56.0	6.0	N/A	
55	56.0	348.6							
			WELL GRADED GRAVEL WITH SAND, GW, 10YR 8/2 (very pale brown) to 10YR 6/4 (light yellowish brown), fine to coarse, non to low plasticity, moist, Tanish						
				RS07		56.0 - 66.0	9.0	N/A	
60	62.0	342.6							
			Dolomite, light gray to dark gray, fine grained, soft, moderately weathered to slightly weathered, damp to dry, Heavily fractured Saprolitic in nature						
65	64.0	340.6							
			Dolomite, light gray to dark gray, microcrystalline, soft, moderately weathered to highly weathered, damp to dry, iron oxide staining, Heavily fractured, sand present						

STANTEC 1755 STD GASTON.GPJ BC 1755 STD.DATAT RU.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-41</u>	Stantec Boring No. <u>GN-AP-MW-41</u>
Client <u>Southern Company</u>	Boring Location <u>993,710.27 N; 465,533.06 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>404.61 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
70			Dolomite, light gray to dark gray, microcrystalline, soft, moderately weathered to highly weathered, damp to dry, iron oxide staining, Heavily fractured, sand present <i>(Continued)</i>		RS08	66.0 - 76.0	1.0	N/A	
75									
76.0	328.6								

No Refusal /
Bottom of Hole at 76.0 Ft.

Top of Rock = 62.0 Ft.
Top of Rock Elevation = 342.6 Ft.











1. Depths are reported in feet below ground surface
 2. Elevation in reference to feet above NAVD 1988 datum
- Depths are reported in feet below ground surface

Client Borehole ID <u>GN-AP-MW-42</u>		Stantec Boring No. <u>GN-AP-MW-42</u>	
Client <u>Southern Company</u>		Boring Location <u>992,746.60 N; 466,442.56 E</u>	
Project Number <u>175520211</u>		Surface Elevation <u>430.01 ft</u>	Elevation Datum <u>NAVD 1988</u>
Project Name <u>Plant Gaston</u>		Date Started <u>2/18/21</u>	Completed <u>2/20/21</u>
Project Location <u>Talladega Co, Alabama</u>		Depth to Water <u>31.4 ft</u>	Date/Time <u>3/1/21</u>
Inspector <u>A. Stevens</u>	Logger <u>A. Stevens</u>	Depth to Water <u>31.0 ft</u>	Date/Time <u>3/22/21</u>
Drilling Contractor <u>Cascade (Subcontractor)</u>		Drill Rig Type and ID <u>Truck Mounted PS-150 Sonic</u>	
Overburden Drilling and Sampling Tools (Type and Size) <u>4" X 6" Rotosonic</u>			
Sampler Hammer Type <u>N/A</u>	Weight <u>N/A</u>	Drop <u>N/A</u>	Efficiency <u>N/A</u>
Reviewed By <u>J. Massey</u>		Approved By <u>E. Smith</u>	





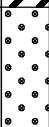

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
0	0.0	430.0	Top of Hole						
			FAT CLAY, CH, 2.5YR 4/6 (red) with 2.5Y 8/4 (pale brown), medium to high plasticity, firm, moist to dry, iron oxide staining		RS01	0.0 - 6.0	4.3	N/A	
4.1	425.9		SANDY FAT CLAY, CH, 2.5YR 4/3 (reddish brown) with 2.5Y 8/4 (pale brown), very fine to medium, medium to high plasticity, firm, moist to dry, iron oxide staining						
10	420.0		SANDY FAT CLAY LITTLE GRAVEL, CH, 2.5YR 4/6 (red) with 2.5Y 8/4 (pale brown), medium to high plasticity, firm, moist to dry, iron oxide staining, poorly graded		RS02	6.0 - 16.0	10.0	N/A	
11.5	418.5		SANDY FAT CLAY SOME GRAVEL, CH, 10YR 4/4 (dark yellowish brown) to 2.5Y 8/4 (pale brown), medium to high plasticity, dry, iron oxide staining, poorly graded						
15									
21.0	409.0				RS03	16.0 - 26.0	10.0	N/A	
23.5	406.5		CLAYEY WELL GRADED SAND WITH GRAVEL, SC, 10YR 6/4 (light yellowish brown) to 2.5Y 8/4 (pale brown), low to medium plasticity, dry to moist, iron oxide staining, well graded						
25									

STANTEC 1755 STD GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-42</u>	Stantec Boring No. <u>GN-AP-MW-42</u>
Client <u>Southern Company</u>	Boring Location <u>992,746.60 N; 466,442.56 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>430.01 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation			Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
25			SANDY FAT CLAY WITH GRAVEL, CH, 10YR 6/4 (light yellowish brown) to 2.5Y 8/4 (pale brown), low to medium plasticity, dry to moist, iron oxide staining, well graded (Continued)						
29.4	400.6								
30			CLAYEY WELL GRADED GRAVEL, GW-GC, 10YR 8/1 (white) with 2.5Y 8/4 (pale brown), non to low plasticity, moderate cementation	RS04		26.0 - 36.0	10.0	N/A	
30.7	399.3								
			SANDY FAT CLAY WITH GRAVEL, CH, 10YR 6/4 (light yellowish brown) to 2.5Y 8/4 (pale brown), low to medium plasticity, dry to moist, iron oxide staining, well graded						
34.5	395.5								
35			GRAVELLY WELL GRADED SAND WITH CLAY, SW-SC, very fine to coarse, wet to moist						
38.0	392.0								
38.5	391.5								
40			CLAYEY WELL GRADED SAND, SW-SC, 10YR 6/4 (light yellowish brown) to 2.5Y 8/4 (pale brown), low to medium plasticity, dry to moist, iron oxide staining, well graded	RS05		36.0 - 46.0	9.0	N/A	
40.2	389.8								
			CLAYEY WELL GRADED SAND WITH GRAVEL, SW-SC, 10YR 6/4 (light yellowish brown) to 2.5Y 8/4 (pale brown), low to medium plasticity, dry to moist, iron oxide staining, well graded						
44.0	386.0								
45			SANDY FAT CLAY WITH GRAVEL, CH, 10YR 6/4 (light yellowish brown) to 2.5Y 8/4 (pale brown), low to medium plasticity, dry to moist, iron oxide staining, well graded						
46.0	384.0								
			CLAYEY WELL GRADED SAND, SW-SC, 10YR 6/4 (light yellowish brown) to 2.5Y 8/4 (pale brown), low to medium plasticity, dry to moist, iron oxide staining, well graded						
50			SANDY FAT CLAY WITH GRAVEL, CH, 10YR 6/4 (light yellowish brown) to 2.5Y 8/4 (pale brown), medium to high plasticity, firm, moist to dry, well graded	RS06		46.0 - 56.0	10.0	N/A	
53.0	377.0								
54.0	376.0		WELL GRADED GRAVEL WITH SAND, GW, 10YR 8/2 (very pale brown), very fine to coarse						
55			SANDY FAT CLAY WITH GRAVEL, CH, 10YR 6/4 (light yellowish brown) to 2.5Y 8/4 (pale						
56.0	374.0								

Client Borehole ID <u>GN-AP-MW-42</u>	Stantec Boring No. <u>GN-AP-MW-42</u>
Client <u>Southern Company</u>	Boring Location <u>992,746.60 N; 466,442.56 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>430.01 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology			Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation	Description	Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
60		 brown), low to medium plasticity, dry to moist, well graded GRAVELLY WELL GRADED SAND, SW, 7.5YR 6/6 (reddish yellow), fine to medium, very loose, wet, weak cementation, well graded, Sand to gravel <i>(Continued)</i>						
66.0	364.0		RS07	56.0 - 66.0	2.5	N/A		
70		 SANDY FAT CLAY WITH GRAVEL, CH, 7.5YR 4/4 (brown), medium to high plasticity, dry to moist						
73.0	357.0		RS08	66.0 - 76.0	10.0	N/A		
75		 Dolomite, finely crystalline, soft, highly weathered						
78.0	352.0							
80		 FAT CLAY, CH, medium to high plasticity, moist						
80.0	350.0							
85		 SANDY POORLY GRADED GRAVELL WITH CLAY, 10YR 2/1 (black) with 10YR 3/6 (dark yellowish brown)						
82.5	347.5		RS09	76.0 - 86.0	10.0	N/A		
85		 SANDY FAT CLAY WITH GRAVEL, CH, dry to moist						
86.0	344.0							

STANTEC 1755 STD GASTON.GPJ BC 1755 STD.DATAT R0.GDT 4/7/21

Client Borehole ID <u>GN-AP-MW-42</u>	Stantec Boring No. <u>GN-AP-MW-42</u>
Client <u>Southern Company</u>	Boring Location <u>992,746.60 N; 466,442.56 E</u>
Project Number <u>175520211</u>	Surface Elevation <u>430.01 ft</u> Elevation Datum <u>NAVD 1988</u>

Lithology		Description	Overburden:	Sample ¹	Depth Ft ²	Rec. Ft	Blows/PSI	Remarks
Depth Ft ²	Elevation		Rock Core:	RQD %	Run Ft	Rec. Ft	Rec. %	
87.5	342.5	Dolomite, gray, finely crystalline, soft, highly weathered, wet <i>(Continued)</i>						
89.0	341.0	SANDY WELL GRADED GRAVEL WITH CLAY, GC, moist, Organic						
90		FAT CLAY, CH, medium to high plasticity, moist		RS10	86.0 - 96.0	9.5	N/A	
93.5	336.5							
94.0	336.0	Dolomite, finely crystalline, soft, highly weathered						
95		FAT CLAY WITH GRAVEL, CH, dry to moist						
96.0	334.0	ORGANIC CLAY WITH GRAVEL, OL/OH, 7.5YR 2/1 (black)						
98.5	331.5	Limestone Dolomite, gray, finely crystalline, soft to moderately hard, freshly weathered to slightly weathered, wet, no odor, no staining, calcareous, Calcite crystals		RS11	96.0 - 101.0	1.5	N/A	
100		SANDY FAT CLAY LITTLE GRAVEL, CH, dry to moist						
101.0	329.0							
105		Dolomite, gray, finely crystalline, soft to moderately hard, freshly weathered to moderately weathered, wet, no odor, no staining, calcareous, Calcite crystals, sand and clay present between 104-106		RS12	101.0 - 106.0	3.5	N/A	
106.0	324.0							

No Refusal /
Bottom of Hole at 106.0 Ft.

Top of Rock = 73.0 Ft.
Top of Rock Elevation = 357.0 Ft.

1. Depths are reported in feet below ground surface
 2. Elevation in reference to feet above NAVD 1988 datum
- Depths are reported in feet below ground surface

Well Installation Field Log

Project Name: <u>Plant Gaston Phase III Delineation MW Installation</u>	Date Started: <u>2/3/2021</u>	Date Completed: <u>2/6/2021</u>
Borehole/Well No: <u>GN-AP-MW-38</u>	Northing (ft): <u>994660.06</u>	Easting (ft): <u>465642.67</u>
Plant Name: <u>Plant Gaston</u>	Latitude: <u>33.2326802</u>	Longitude: <u>-86.4563939</u>
Plant Address: <u>31972 Alabama Hwy 25, Wilsonville, AL 35186</u>	Location Datum: <u>AL NAD83 East</u>	Elevation Datum: <u>NAVD 1988</u>
Project & Task Number: <u>175520211 / 200.02</u>	Surface/ Ground Elevation: <u>402.50 ft NAVD88</u>	Stickup (ft, ags): <u>2.5</u>
Goals/Task: <u>Upgradient Monitoring Well Installations</u>	Borehole Diameter (in): <u>6" (0.00-75.00')</u>	Borehole Depth (ft, bgs): <u>75.0</u>
Drilling Company: <u>Cascade</u>	Well Casing Diameter (in): <u>2</u>	Well Depth (ft, bgs): <u>72.0</u>
Drilling Equipment/Rig Type: <u>Truck Mounted PS-150 Sonic</u>	Top of Casing elev (ft): <u>404.93 ft NAVD88</u>	Screen length (ft): <u>10</u>
Drilling Method: <u>4" x 6" Rotosonic</u>	DTW at Completion (ft, bgs): <u>4.5</u>	
Sampling Method: <u>Sonic 4" core barrel</u>		
Prepared By: <u>Andrew Stevens</u>		
Review By: <u>Edgar Smith</u>		

*Not to Scale

Depth (feet)	Well Construction	Materials Inventory
—	Stick up <u>2.5 ft, ags</u>	Stick up: <u>2.5</u> ft, ags
—	Ground surface - 0.0'	
—	4" Inch Diameter Protective Cover with Locking Lid	
—	Outer casing	Casing Type (steel or PVC, schedule 40 or 80): <u>2" PVC, Schedule 40</u>
—		Casing Top: <u>2.5</u> ft, ags Bottom: <u>72.0</u> ft, bgs
—	Bottom of Grout <u>54.5 ft, bgs</u> Top of Bentonite	Screen Type: <u>Sch 40, 2" ID x 3" OD U-Pack</u>
—		Screen Slot Size: <u>0.010</u>
—	2" inch casing	Screen Top: <u>61.6</u> ft, bgs Bottom: <u>71.6</u> ft, bgs
—	Bottom of Bentonite <u>59.2 ft, bgs</u> Top of Filter Pack	Sump/end cap Top: <u>71.6</u> ft, bgs Bottom: <u>72.0</u> ft, bgs
—	16/40 mesh Filter pack	Grout Quantity: <u>60 Gallons</u>
—	Top of Screen <u>61.6 ft, bgs</u>	Grout Type: <u>Baroid Aqua Guard 30% Solids Grout</u>
—		Grout Top: <u>30.1</u> ft, bgs Bottom: <u>59.2</u> ft, bgs
—	0.010 Slot screen	Density Initial: <u>NA</u> lbs/gal Return: <u>NA</u> lbs/gal
—		Bentonite Type: <u>Pel Plug 3/8" PDS TR30 pellets</u>
—		Bentonite Seal Top: <u>54.8</u> ft, bgs Bottom: <u>59.2</u> ft, bgs
—		Filter Pack - Pre-pack and Annular Space Type (manufacturer, size): <u>Southern Product & Silica Co. Filter Sand and Gravel #1</u>
—		Filter Pack: Top: <u>59.2</u> ft, bgs Bottom: <u>72.9</u> ft, bgs
—	Bottom of screen <u>71.6 ft, bgs</u>	Notes: Bentonite seal hydrated a minimum of 4-hours prior to grout backfill placement.
—		
—	Top of backfill below filter pack (see notes) <u>72.9 ft, bgs</u>	
—		
—	72.0 ft, bgs Sump/end cap	
—		
—	72.9 ft, bgs Base of filter pack	
—		
—	Terminus of borehole <u>75.0 ft, bgs</u>	<u>54.5-30.1 feet grout and bentonite seal from 30.1-0-3.0 feet bgs</u>

Well Installation Field Log

Project Name: <u>Plant Gaston Phase III Delineation MW Installation</u>	Date Started: <u>2/21/2021</u>	Date Completed: <u>2/22/2021</u>
Borehole/Well No: <u>GN-AP-MW-39</u>	Northing (ft): <u>996180.64</u>	Easting (ft): <u>467026.97</u>
Plant Name: <u>Plant Gaston</u>	Latitude: <u>33.2368816</u>	Longitude: <u>-86.4518965</u>
Plant Address: <u>31972 Alabama Hwy 25, Wilsonville, AL 35186</u>	Location Datum: <u>AL NAD83 East</u>	Elevation Datum: <u>NAVD 1988</u>
Project & Task Number: <u>175520211 / 200.02</u>	Surface/ Ground Elevation: <u>413.93 ft NAVD88</u>	Stickup (ft, ags): <u>2.8</u>
Goals/Task: <u>Upgradient Monitoring Well Installations</u>	Borehole Diameter (in): <u>6" (0.00-77.00')</u>	Borehole Depth (ft, bgs): <u>77.0</u>
Drilling Company: <u>Cascade</u>	Well Casing Diameter (in): <u>2</u>	Well Depth (ft, bgs): <u>75.5</u>
Drilling Equipment/Rig Type: <u>Truck Mounted PS-150 Sonic</u>	Top of Casing elev (ft): <u>416.71 ft NAVD88</u>	Screen length (ft): <u>10</u>
Drilling Method: <u>4" x 6" Rotosonic</u>	DTW at Completion (ft, bgs): <u>16.2</u>	
Sampling Method: <u>Sonic 4" core barrel</u>		
Prepared By: <u>Andrew Stevens</u>		
Review By: <u>Edgar Smith</u>		

*Not to Scale

Depth (feet)	Well Construction	Materials Inventory
— — —	Stick up <u>2.8 ft, ags</u>	Stick up: <u>2.8</u> ft, ags
	Ground surface - 0.0'	
	4" Inch Diameter Protective Cover with Locking Lid	
	Outer casing	Casing Type (steel or PVC, schedule 40 or 80): <u>2" PVC, Schedule 40</u>
		Casing Top: <u>2.8</u> ft, ags Bottom: <u>75.5</u> ft, bgs
	Bottom of Grout <u>56.7 ft, bgs</u> Top of Bentonite	Screen Type: <u>Sch 40, 2" ID x 3" OD U-Pack</u>
		Screen Slot Size: <u>0.010</u>
	2" inch casing	Screen Top: <u>65.1</u> ft, bgs Bottom: <u>75.1</u> ft, bgs
	Bottom of Bentonite <u>61.7ft, bgs</u> Top of Filter Pack	Sump/end cap Top: <u>75.1</u> ft, bgs Bottom: <u>75.5</u> ft, bgs
	16/40 mesh Filter pack	Grout Quantity: <u>120 gallons</u>
	Top of Screen <u>65.1 ft, bgs</u>	Grout Type: <u>Baroid Aqua Guard 30% Solids Grout</u>
		Grout Top: <u>41.5</u> ft, bgs Bottom: <u>56.7</u> ft, bgs
	0.010 Slot screen	Density Initial: <u>NA</u> lbs/gal Return: <u>NA</u> lbs/gal
		Bentonite Type: <u>Pel Plug 3/8" PDS TR30 pellets</u>
		Bentonite Seal Top: <u>56.7</u> ft, bgs Bottom: <u>61.7</u> ft, bgs
		Filter Pack - Pre-pack and Annular Space Type (manufacturer, size): <u>Southern Product & Silica Co. Filter Sand and Gravel #1</u>
		Filter Pack: Top: <u>61.7</u> ft, bgs Bottom: <u>77.0</u> ft, bgs
	Bottom of screen <u>75.1 ft, bgs</u>	Notes: Bentonite seal hydrated a minimum of 4-hours prior to grout backfill placement. Bentonite Pellets placed from 41.5-3.0 ft
	Top of backfill below filter pack (see notes) <u>77.0 ft, bgs</u>	
	Terminus of borehole <u>77.0 ft, bgs</u>	
	75.5 ft, bgs Sump/end cap	
	77.0 ft, bgs Base of filter pack	

Well Installation Field Log

Project Name: <u>Plant Gaston Phase III Delineation MW Installation</u>	Date Started: <u>2/9/2021</u>	Date Completed: <u>2/17/2021</u>
Borehole/Well No: <u>GN-AP-MW-40</u>	Northing (ft): <u>994043.73</u>	Easting (ft): <u>466890.99</u>
Plant Name: <u>Plant Gaston</u>	Latitude: <u>33.2310068</u>	Longitude: <u>-86.4522998</u>
Plant Address: <u>31972 Alabama Hwy 25, Wilsonville, AL 35186</u>	Location Datum: <u>AL NAD83 East</u>	Elevation Datum: <u>NAVD 1988</u>
Project & Task Number: <u>175520211 / 200.02</u>	Surface/ Ground Elevation: <u>411.79 ft NAVD 1988</u>	Stickup (ft, ags): <u>2.6</u>
Goals/Task: <u>Upgradient Monitoring Well Installations</u>	Borehole Diameter (in): <u>6" (0.00-72.80')</u>	Borehole Depth (ft, bgs): <u>72.8</u>
Drilling Company: <u>Cascade</u>	Well Casing Diameter (in): <u>2</u>	Well Depth (ft, bgs): <u>69.6</u>
Drilling Equipment/Rig Type: <u>Truck Mounted PS-150 Sonic</u>	Top of Casing elev (ft): <u>414.32 ft NAVD 1988</u>	Screen length (ft): <u>10</u>
Drilling Method: <u>4" x 6" Rotosonic</u>	DTW at Completion (ft, bgs): <u>12.0</u>	
Sampling Method: <u>Sonic 4" core barrel</u>		
Prepared By: <u>Andrew Stevens</u>		
Review By: <u>Edgar Smith</u>		

*Not to Scale

Depth (feet)	Well Construction	Materials Inventory
— — —	Stick up <u>2.6 ft, ags</u>	Stick up: <u>2.6</u> ft, ags
	Ground surface - 0.0'	
	4" Inch Diameter Protective Cover with Locking Lid	
	Outer casing	Casing Type (steel or PVC, schedule 40 or 80): <u>2" PVC, Schedule 40</u>
		Casing Top: <u>2.6</u> ft, ags Bottom: <u>69.9</u> ft, bgs
	Bottom of Grout <u>52.4 ft, bgs</u> Top of Bentonite	Screen Type: <u>Sch 40, 2" ID x 3" OD U-Pack</u>
		Screen Slot Size: <u>0.010</u>
	2" inch casing	Screen Top: <u>59.2</u> ft, bgs Bottom: <u>69.2</u> ft, bgs
	Bottom of Bentonite <u>56.7 ft, bgs</u> Top of Filter Pack	Sump/end cap Top: <u>69.2</u> ft, bgs Bottom: <u>69.6</u> ft, bgs
	16/40 mesh Filter pack	Grout Quantity: <u>120 Gallons</u>
	Top of Screen <u>59.2 ft, bgs</u>	Grout Type: <u>Baroid Aqua Guard 30% Solids Grout</u>
	0.010 Slot screen	Grout Top: <u>30.0</u> ft, bgs Bottom: <u>52.4</u> ft, bgs
		Density Initial: <u>NA</u> lbs/gal Return: <u>NA</u> lbs/gal
		Bentonite Type: <u>Pel Plug 3/8" PDS TR30 pellets</u>
		Bentonite Seal Top: <u>52.4</u> ft, bgs Bottom: <u>56.7</u> ft, bgs
		Filter Pack - Pre-pack and Annular Space Type (manufacturer, size): <u>Southern Product & Silica Co. Filter Sand and Gravel #1</u>
		Filter Pack: Top: <u>56.7</u> ft, bgs Bottom: <u>72.8</u> ft, bgs
	Bottom of screen <u>69.2 ft, bgs</u>	Notes: Bentonite seal hydrated a minimum of 4-hours prior to grout backfill placement. Bentonite Pellets placed from 41.5-36.0 ft
	Top of backfill below filter pack (see notes) <u>72.8 ft, bgs</u>	natural collapse from 52.7-43.0 bentonite pellets placed from 30.0-3.0 feet bgs due to grout lose in boring
	72.8 ft, bgs Base of filter pack	
	Terminus of borehole <u>76.0 ft, bgs</u>	
	69.6 ft, bgs Sump/end cap	

Well Installation Field Log

Project Name: <u>Plant Gaston Phase III Delineation MW Installation</u>	Date Started: <u>2/6/2021</u>	Date Completed: <u>2/7/2021</u>
Borehole/Well No: <u>GN-AP-MW-41</u>	Northing (ft): <u>993710.27</u>	Easting (ft): <u>465533.06</u>
Plant Name: <u>Plant Gaston</u>	Latitude: <u>33.2300682</u>	Longitude: <u>-86.4567338</u>
Plant Address: <u>31972 Alabama Hwy 25, Wilsonville, AL 35186</u>	Location Datum: <u>AL NAD83 East</u>	Elevation Datum: <u>NAVD 1988</u>
Project & Task Number: <u>175520211 / 200.02</u>	Surface/ Ground Elevation: <u>404.61 ft NAVD 1988</u>	Stickup (ft, ags): <u>2.4</u>
Goals/Task: <u>Upgradient Monitoring Well Installations</u>	Borehole Diameter (in): <u>6" (0.00-75.90')</u>	Borehole Depth (ft, bgs): <u>75.9</u>
Drilling Company: <u>Cascade</u>	Well Casing Diameter (in): <u>2</u>	Well Depth (ft, bgs): <u>74.3</u>
Drilling Equipment/Rig Type: <u>Truck Mounted PS-150 Sonic</u>	Top of Casing elev (ft): <u>407.28 ft NAVD 1988</u>	Screen length (ft): <u>10</u>
Drilling Method: <u>4" x 6" Rotosonic</u>	DTW at Completion (ft, bgs): <u>7.4</u>	
Sampling Method: <u>Sonic 4" core barrel</u>		
Prepared By: <u>Andrew Stevens</u>		
Review By: <u>Edgar Smith</u>		

*Not to Scale

Depth (feet)	Well Construction	Materials Inventory
—	Stick up <u>2.4 ft, ags</u>	Stick up: <u>2.4</u> ft, ags
—	Ground surface - 0.0'	
+	4" Inch Diameter Protective Cover with Locking Lid	
+	Outer casing	Casing Type (steel or PVC, schedule 40 or 80): <u>2" PVC, Schedule 40</u>
+		Casing Top: <u>2.4</u> ft, ags Bottom: <u>74.3</u> ft, bgs
+	Bottom of Grout <u>57.5 ft, bgs</u> Top of Bentonite	Screen Type: <u>Sch 40, 2" ID x 3" OD U-Pack</u>
+		Screen Slot Size: <u>0.010</u>
+	2" inch casing	Screen Top: <u>63.9</u> ft, bgs Bottom: <u>73.9</u> ft, bgs
+	Bottom of Bentonite <u>61.5 ft, bgs</u> Top of Filter Pack	Sump/end cap Top: <u>73.9</u> ft, bgs Bottom: <u>74.3</u> ft, bgs
+	16/40 mesh Filter pack	Grout Quantity: <u>140 Gallons</u>
+	Top of Screen <u>63.9 ft, bgs</u>	Grout Type: <u>Baroid Aqua Guard 30% Solids Grout</u>
+	0.010 Slot screen	Grout Top: <u>2.0</u> ft, bgs Bottom: <u>61.5</u> ft, bgs
+		Density Initial: <u>NA</u> lbs/gal Return: <u>NA</u> lbs/gal
+		Bentonite Type: <u>Pel Plug 3/8" PDS TR30 pellets</u>
+		Bentonite Seal Top: <u>57.5</u> ft, bgs Bottom: <u>61.5</u> ft, bgs
+		Filter Pack - Pre-pack and Annular Space Type (manufacturer, size): <u>Southern Product & Silica Co. Filter Sand and Gravel #1</u>
+		Filter Pack: Top: <u>61.5</u> ft, bgs Bottom: <u>75.9</u> ft, bgs
+	Bottom of screen <u>73.9 ft, bgs</u>	Notes: Bentonite seal hydrated a minimum of 4-hours prior to grout backfill placement. Bentonite Pellets placed from 41.5-36.0 ft. Grout from 36.0-27.0 ft. Bentonite placed from 27.0-3.0 feet.
+	Top of backfill below filter pack (see notes) <u>75.9 ft, bgs</u>	
+	74.3 ft, bgs Sump/end cap	
+	75.9 ft, bgs Base of filter pack	
+	Terminus of borehole <u>75.9 ft, bgs</u>	

Well Installation Field Log

Project Name: <u>Plant Gaston Phase III Delineation MW Installation</u>	Date Started: <u>2/19/2021</u>	Date Completed: <u>2/20/2021</u>
Borehole/Well No: <u>GN-AP-MW-42</u>	Northing (ft): <u>992746.60</u>	Easting (ft): <u>466442.56</u>
Plant Name: <u>Plant Gaston</u>	Latitude: <u>33.2274348</u>	Longitude: <u>-86.4537410</u>
Plant Address: <u>31972 Alabama Hwy 25, Wilsonville, AL 35186</u>	Location Datum: <u>AL NAD83 East</u>	Elevation Datum: <u>NAVD 1988</u>
Project & Task Number: <u>175520211 / 200.02</u>	Surface/ Ground Elevation: <u>430.01 ft NAVD 1988</u>	Stickup (ft, ags): <u>2.7</u>
Goals/Task: <u>Upgradient Monitoring Well Installations</u>	Borehole Diameter (in): <u>6" (0.00-105.40')</u>	Borehole Depth (ft, bgs): <u>105.4</u>
Drilling Company: <u>Cascade</u>	Well Casing Diameter (in): <u>2</u>	Well Depth (ft, bgs): <u>104.6</u>
Drilling Equipment/Rig Type: <u>Truck Mounted PS-150 Sonic</u>	Top of Casing elev (ft): <u>433.01 ft NAVD 1988</u>	Screen length (ft): <u>10</u>
Drilling Method: <u>4" x 6" Rotosonic</u>	DTW at Completion (ft, bgs): <u>31.5</u>	
Sampling Method: <u>Sonic 4" core barrel</u>		
Prepared By: <u>Andrew Stevens</u>		
Review By: <u>Edgar Smith</u>		

*Not to Scale

Depth (feet)	Well Construction	Materials Inventory
—	Stick up <u>2.7 ft, ags</u>	Stick up: <u>2.7</u> ft, ags
—	Ground surface - 0.0'	
+	4" Inch Diameter Protective Cover with Locking Lid	
+	Outer casing	Casing Type (steel or PVC, schedule 40 or 80): <u>2" PVC, Schedule 40</u>
+		Casing Top: <u>2.7</u> ft, ags Bottom: <u>104.5</u> ft, bgs
+	Bottom of Grout <u>87.9 ft, bgs</u> Top of Bentonite	Screen Type: <u>Sch 40, 2" ID x 3" OD U-Pack</u>
+		Screen Slot Size: <u>0.010</u>
+	2" inch casing	Screen Top: <u>94.2</u> ft, bgs Bottom: <u>104.2</u> ft, bgs
+	Bottom of Bentonite <u>91.9 ft, bgs</u> Top of Filter Pack	Sump/end cap Top: <u>104.2</u> ft, bgs Bottom: <u>104.6</u> ft, bgs
+	16/40 mesh Filter pack	Grout Quantity: <u>160 gallons</u>
+	Top of Screen <u>94.2 ft, bgs</u>	Grout Type: <u>Baroid Aqua Guard 30% Solids Grout</u>
+	0.010 Slot screen	Grout Top: <u>3.0</u> ft, bgs Bottom: <u>87.9</u> ft, bgs
+		Density Initial: <u>NA</u> lbs/gal Return: <u>NA</u> lbs/gal
+		Bentonite Type: <u>Pel Plug 3/8" PDS TR30 pellets</u>
+		Bentonite Seal Top: <u>87.9</u> ft, bgs Bottom: <u>91.9</u> ft, bgs
+		Filter Pack - Pre-pack and Annular Space Type (manufacturer, size): <u>Southern Product & Silica Co. Filter Sand and Gravel #1</u>
+	Bottom of screen <u>104.2 ft, bgs</u>	Filter Pack: Top: <u>91.9</u> ft, bgs Bottom: <u>105.4</u> ft, bgs
+	Top of backfill below filter pack (see notes) <u>105.4 ft, bgs</u>	Notes: Bentonite seal hydrated a minimum of 4-hours prior to grout backfill placement.
+	104.6 ft, bgs Sump/end cap	
+	105.4 ft, bgs Base of filter pack	
+	Terminus of borehole <u>105.4 ft, bgs</u>	<u>87.9-26.0 feet grout and bentonite seal from 26.0-3.0 feet bgs</u>



Well Development Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Submit

Location	Gaston Ash Pond	Well	MW-38
Start Date/Time	3/22/21 13:30	End Date/Time	3/22/2021 14:50
Technician	Anthony Goggins		
Weather	Sunny 75 F		
Depth to Water	6.20	Total Volume Purged	14
Depth to Bottom	74.65	Well Capacity	0.16
Gallons per well volume	10.9		
Comment	Purged 20 gallons to clear well of drilling debris		

Time	Vol (Gallons)	Cum Vol (Gallons)	Rate (GPM)	DTW (Feet)	pH (SU)	Cond (uS/cm)	Temp (C)	Turb (NTU)	Color (Desc)	ORP (mV)	DO (mg/L)	Comment
1345			0.2	7.15	7.7	238		16.5	clear	-50.6	1.8	800mlmin bottom
1350	1	1	0.2	7.09	7.7	236		11.5	Clear	-51	1.8	
1355	1	2	0.2	7	7.8	233		4.82	Clear	-56	1.9	
1400	1	3	0.2	7	7.9	236		138	Cloudy	-54	1.9	midscreen
1405	1	4	0.2	7	7.8	229		185	Cloudy	-62	1.8	
1410	1	5	0.2	7	7.8	237		78	Cloudy	-52	1.9	
1415	1	6	0.2	7	7.9	230		118	Cloudy	-52	1.8	
1420	1	7	0.2	7	8	231		21	Clear	-52	2.3	
1425	1	8	0.2	7	8.1	231		9.64	Clear	-55	2.8	
1430	1	9	0.2	7	8.2	231		5.16	Clear	-60	2.5	
1435	1	10	0.2	7	8.2	217		16.2	Clear	-63	1.7	top
1440	1	12	0.2	7	8.3	228		11.4	Clear	-67	2.6	
1445	1	13	0.2	7	8.3	231		11.2	Clear	-64	2.6	
1450	1	14	0.2	7	8.3	229		5.59	Clear	-64	2.7	



Submit

Location	Gaston Ash Pond	Well	MW-39
Start Date/Time	4/1/21 09:10	End Date/Time	4/1/2021 10:45
Technician	Anthony Goggins		
Weather	Suuny 50 F		
Depth to Water	14.60 ft	Total Volume Purged	24.7 gal
Depth to Bottom	77.85 ft	Well Capacity	0.16
Gallons per well volume	10.12		
Comment	Pumped est 50 gallons to clear drilling debris from well, before gathering data		

Time	Vol (Gallons)	Cum Vol (Gallons)	Rate (GPM)	DTW (Feet)	pH (SU)	Cond (uS/cm)	Temp (C)	Turb (NTU)	Color (Desc)	ORP (mV)	DO (mg/L)	Comment
0910			0.26					50	Mud			1000 mlmin Bottom
0920	2.6	2.6	0.26	14.95	7	254	18	12.7	Clear	-159	0	
0925	1.3	3.9	0.26	14.95	7	253	18	10.7	Clear	-158	0	
0930	1.3	5.2	0.26	14.95	7	252	18	10.69	Clear	-158	0	
0935	1.3	6.5	0.26	14.95	7	252	18	8.69	Clear	-158	0	
0945	2.6	9.1	0.26	14.95	7	251	18	6.46	Clear	-158	0	
0955	2.6	11.7	0.26	14.95	7	249	18	36.4	Cloudy	-155	0	Midscreen
1005	2.6	14.3	0.26	14.95	7	249	18	17.6	Clear	-156	0	
1015	2.6	16.9	0.26	14.95	7	248	18	8.39	Clear	-156	0	
1020	1.3	18.2	0.26	14.95	7	252	18	6.01	Clear	-157	0	
1030	2.6	20.8	0.26	14.95	7	252	18	23.8	Cloudy	-151	0	Top
1040	2.6	23.4	0.26	14.95	7	249	18	6.20	Clear	-154	0	
1045	1.3	24.7	0.26	14.95	7.79	247	18	4.07	Clear	-154	0	



Well Development Groundwater

APC General Testing Laboratory
General Service Complex Building 8

Submit

Location	Gaston Ash Pond <input type="text"/>	Well	MW-40
Start Date/Time	4/1/21 13:20	End Date/Time	4/1/2021 13:20
Technician	TJ Daugherty <input type="text"/>		
Weather	sunny 50		
Depth to Water	13.35	Total Volume Purged	61.75
Depth to Bottom	72.3	Well Capacity	0.16
Gallons per well volume	9.43		
Comment			

Time	Vol	Cum Vol	Rate	D'TW	pH	Cond	Temp	Turb	Color	ORP	DO	Comment
	(Gallons)	(Gallons)	(GPM)	(Feet)	(SU)	(uS/cm)	(C)	(NTU)	(Desc)	(mV)	(mg/L)	
1213			0.13	13.35	8.02	224	18.84			70	5.61	Bottom screen
1218			0.13	13.35	8.04	224	18.87	18.1	clear	65	5.63	
1223			0.13	13.35	8.02	225	18.83	14.9	clear	63	5.59	
1228			0.13	13.35	8.04	225	18.83	15.8	clear	56	5.56	
1233			0.13	13.35	8.04	225	18.86	18.3	clear	56	5.64	
1238			0.13	13.35	8.04	227	18.88	15.7	clear	49	5.58	
1243			0.13	13.35	8.04	225	18.77	16.2	clear	46	5.60	
1248			0.13	13.35	8.04	229	18.71	62.7	cloudy	43	5.80	mid screen
1325			0.13	13.35	8.04	227	18.75				5.72	
1330			0.13	13.35	8.03	226	18.67	11.97	clear	36	5.77	
1335			0.13	13.35	8.03	226	18.76	11.49	clear	34	5.75	
1340			0.13	13.35	8.04	225	18.67	11.3	clear	32	5.80	
1345			0.13	13.35	8.03	227	18.83	9.35	clear	30	5.72	
1350			0.13	13.35	8.04	226	18.80	9.68	clear	29	5.75	
1414			0.13	13.35	8.04	227	18.51				5.68	top screen
1419			0.13	13.35	8.03	227	18.56	15.3	clear	15.3	5.67	
1424			0.13	13.35	8.03	227	18.42	14.9	clear	14.9	5.71	
1429			0.13	13.35	8.02	227	18.57	12.3	clear	12.3	5.76	
1434			0.13	13.35	8.03	226	18.74	11.6	clear	11.6	5.78	
1439				13.35	8.04	226	18.73	12.5	clear	12.5	5.83	



Well Development
Groundwater
 APC General Testing Laboratory
 General Service Complex Building 8

Submit

Location	Gaston Ash Pond		Well	MW-41
Start Date/Time	4/1/21 07:55		End Date/Time	4/1/2021 12:15
Technician	Dallas Gentry			
Weather	Clear 50			
Depth to Water	6.41	Total Volume Purged		79.07
Depth to Bottom	77.46	Well Capacity		0.16
Gallons per well volume	11.37			
Comment	Well was purged and surged for approximately 3 hours before beginning low flow procedure			

Time	Vol	Cum Vol	Rate	DTW	pH	Cond	Temp	Turb	Color	ORP	DO	Comment
	(Gallons)	(Gallons)	(GPM)	(Feet)	(SU)	(uS/cm)	(C)	(NTU)	(Desc)	(mV)	(mg/L)	
1055	0.65	68.67	0.13	6.54	7.43	244.91	17.26	4.12	Clear	59.8	4.12	Bottom of Screen
1100	0.65	69.32	0.13	6.54	7.35	242.59	17.36	4.52	Clear	71.4	4.23	
1105	0.65	69.97	0.13	6.54	7.34	242.25	17.37	4.99	Clear	76.1	4.22	
1110	0.65	70.62	0.13	6.54	7.34	237.82	17.22	4.68	Clear	78.4	4.33	
1115	0.65	71.27	0.13	6.48	7.37	243.42	17.33	126	Orange	89.2	4.04	Mid Screen
1120	0.65	71.92	0.13	6.48	7.36	240.21	18.01	91.10	Cloudy	97.1	4.16	
1125	0.65	72.57	0.13	6.48	7.38	245.34	18.01	39.60	Cloudy	92.6	4.12	
1130	0.65	73.22	0.13	6.48	7.41	246.86	17.67	11.10	Clear	91.8	4.06	
1135	0.65	73.87	0.13	6.48	7.43	247.71	17.88	9.92	Clear	81.3	4.01	
1140	0.65	74.52	0.13	6.48	7.46	246.72	17.88	7.00	Clear	74.5	4.06	
1145	0.65	75.17	0.13	6.43	7.51	266.39	17.81	167	Cloudy	74.8	3.12	Top of Screen
1150	0.65	75.82	0.13	6.43	7.51	251.28	17.98	38.60	Cloudy	88.6	3.85	
1155	0.65	76.47	0.13	6.43	7.56	252.42	17.97	16.80	Clear	85.0	3.79	
1200	0.65	77.12	0.13	6.43	7.64	245.32	17.67	11.04	Clear	77.0	4.11	
1205	0.65	77.77	0.13	6.43	7.69	244.87	17.60	9.76	Clear	70.2	4.11	
1210	0.65	78.42	0.13	6.43	7.76	235.71	17.11	5.12	Clear	67.5	4.53	
1215	0.65	79.07	0.13	6.43	7.78	234.58	17.07	4.72	Clear	65.2	4.59	



Well Development
Groundwater
 APC General Testing Laboratory
 General Service Complex Building 8

Submit

Location	Gaston Ash Pond	Well	MW-42
Start Date/Time	3/29/21 11:30	End Date/Time	3/29/2021 14:00
Technician	TJ Daugherty		
Weather	Sunny 60		
Depth to Water	32.52	Total Volume Purged	26.13 gal
Depth to Bottom	107	Well Capacity	0.16
Gallons per well volume	11.92		
Comment	Added volume of water purged before taking readings to TVP value.		

Time	Vol (Gallons)	Cum Vol (Gallons)	Rate (GPM)	DTW (Feet)	pH (SU)	Cond (uS/cm)	Temp (C)	Turb (NTU)	Color (Desc)	ORP (mV)	DO (mg/L)	Comment
1240			11.92	32.52	6.72	212	18			57	1.56	Bottom screen
1245			11.92	32.52	6.88	213	18	6.47	Clear	51	1.47	
1250			11.92	32.52	6.90	209	18	7.24	Clear	49	1.49	
1255			11.92	32.52	6.91	209	18	6.77	Clear	50	1.49	
1300			11.92	32.52	6.85	207	19	6.89	Clear	55	1.48	
1305			11.92	32.52	6.45	172	19	100	Cloudy	47	1.37	Mid screen
1310			11.92	32.52	6.80	207	18	100	Cloudy	38	1.54	
1315			11.92	32.52	6.87	208	18	100	Cloudy	36	1.66	
1320			11.92	32.52	6.90	207	18	12.7	Clear	37	1.78	
1325			11.92	32.52	6.91	204	19	8.92	Clear	38	1.79	
1330			11.92	32.52	6.82	204	19	5.87	Clear	44	1.74	
1335			11.92	32.52	6.81	200	19	5.62	Clear	45	1.76	
1340			11.92	32.52	6.77	202	18	34.9	Clear	46	1.86	Top screen
1345			11.92	32.52	6.89	203	18	16.1	Clear	47	2.00	
1350			11.92	32.52	6.90	202	19	9.97	Clear	48	2.17	
1355		7.93	11.92	32.52	6.89	200	19	6.95	Clear	52	2.08	

Appendix B



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-3																		
		Date	03/28/2016	05/17/2016	07/11/2016	09/14/2016	11/16/2016	03/01/2017	05/23/2017	06/19/2017	08/15/2017	01/10/2018	04/19/2018	10/03/2018	04/02/2019	09/17/2019	02/19/2020	07/27/2020	04/05/2021	09/27/2021
Appendix III	Units																			
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	31.6	29.6	30	30.6	30.4	<0.1	30.1	29.9	28.1	--	31.2	32.3	31.6	31.7	32.3	31	30.6	30.7	
Chloride	mg/L	2.48	1.9	1.93	1.77	1.98	2.3	2.2	1.7 J	2.1	--	1.7 J	1.7 J	1.65	1.93	1.81	1.83	1.91	1.9	
Fluoride	mg/L	0.032 J	0.068 J	0.057 J	0.017 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	0.0801 J	0.0805 J	
pH_Field	SU	7.82	7.79	7.96	7.79	7.72	7.68	7.69	7.67	7.73	7.84	7.69	7.7	7.8	7.8	7.8	7.69	7.67	7.81	
Sulfate	mg/L	7.57	5.12	4.63	3.19	3.71	3.4 J	2 J	2.5 J	2.4 J	--	1.9 J	2.7 J	3.24	4.51	3.73	4.11	3.2	2.76	
TDS	mg/L	147	140	146	141	157	148	141	126	146	--	143	148	140	145	149	154	136	132	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000613 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000829	0.000731	
Barium	mg/L	0.0116	0.00866 J	0.00969 J	0.00864 J	0.00917 J	0.00869 J	0.00658 J	0.00672 J	--	0.00645 J	0.00625 J	0.00708 J	0.00625 J	0.00834 J	0.00697 J	0.0192	0.0222	0.021	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00065 J	0.000499 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Combined Radium 226 + 228	pCi/L	1 U	0.222 U	0.118 U	0.265 U	0.295 U	0.0981 U	--	0.194 U	--	0.753	0.171 U	0.433 U	-0.0631 U	0.0186 U	0.418 U	-0.0654 U	0.143 U	0.348 U	
Fluoride	mg/L	0.032 J	0.068 J	0.057 J	0.017 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	0.0801 J	0.0805 J	
Lead	mg/L	0.00128 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.00652 J	0.00651 J	0.00691 J	0.0074 J	0.00663 J	0.00856 J	0.00689 J	0.00687 J	--	0.00806 J	0.00659 J	0.00669 J	0.00766 J	0.00644 J	0.00575 J	0.0058 J	0.00538	0.00469	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.000648 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000203 J	8.13e-005 J	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-38		GN-AP-MW-39		GN-AP-MW-40		GN-AP-MW-41		GN-AP-MW-42	
	Date	04/12/2021	09/21/2021	04/12/2021	09/21/2021	04/12/2021	09/21/2021	04/12/2021	09/21/2021	04/13/2021	09/21/2021
Appendix III	Units										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	0.0342 J	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	23.2	22.3	35	36.1	22.9	21.6	26.6	31.8	11.7	15.4
Chloride	mg/L	5.88	6.09	2.91	2.94	4.13	2.19	3.05	2.78	4.18	3.99
Fluoride	mg/L	<0.06	0.0969 J	0.163	0.18	0.0651 J	0.083 J	<0.06	0.0994 J	<0.06	0.0656 J
pH_Field	SU	7.99	7.85	7.09	7.3	7.77	7.12	7.18	7.3	6.14	6.07
Sulfate	mg/L	12.6	5.49	14.6	14.1	7.23	1.31	2.99	1.38	4.92	3.27
TDS	mg/L	129	115	146	139	118	111	126	148	77.3	83.3
Appendix IV											
Antimony	mg/L	<0.000507	<0.000508	<0.000507	<0.000508	<0.000507	<0.000508	<0.000507	<0.000508	<0.000507	<0.000508
Arsenic	mg/L	0.000283	0.000126 J	0.000946	0.000456	0.000195 J	0.0001 J	0.000179 J	<6.8e-005	0.000163 J	<6.8e-005
Barium	mg/L	0.008	0.0101	0.0226	0.0289	0.0107	0.00746	0.0155	0.022	0.0154	0.0114
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000855	0.000181 J
Chromium	mg/L	0.000599 J	0.000792 J	0.000345 J	0.000331 J	0.000871 J	0.00113	0.000441 J	0.000452 J	0.000307 J	0.000503 J
Cobalt	mg/L	9.61e-005 J	8.24e-005 J	<6.8e-005	<6.8e-005	0.000109 J	<6.8e-005	0.000167 J	<6.8e-005	0.00168	<6.8e-005
Combined Radium 226 + 228	pCi/L	0.369 U	0.655 U	0.176 U	0.723 U	0.161 U	0.737 U	0.456 U	0.828 U	0.404 U	0.491 U
Fluoride	mg/L	<0.06	0.0969 J	0.163	0.18	0.0651 J	0.083 J	<0.06	0.0994 J	<0.06	0.0656 J
Lead	mg/L	0.000124 J	0.000119 J	<6.8e-005	<6.8e-005	0.000114 J	<6.8e-005	0.000122 J	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000402	0.000172 J	0.00167	0.00103	0.000473	0.000192 J	<6.8e-005	<6.8e-005	0.000176 J	0.000151 J
Selenium	mg/L	<0.000507	<0.000508	<0.000507	<0.000508	<0.000507	<0.000508	<0.000507	<0.000508	<0.000507	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00015 J	<6.8e-005

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-4																		
		Date	03/30/2016	05/17/2016	07/11/2016	09/14/2016	11/16/2016	02/28/2017	05/24/2017	06/21/2017	08/15/2017	01/10/2018	04/19/2018	10/03/2018	04/02/2019	09/17/2019	02/18/2020	07/27/2020	04/05/2021	09/27/2021
Appendix III	Units																			
Boron	mg/L	0.193	0.201	0.375	0.507	0.655	0.364	0.352	0.263	0.23	--	0.305	0.952	0.271	0.619	0.281	0.3	0.2	0.149	
Calcium	mg/L	53.6	50.5	56.5	58	61.8	56.8	55.5	51	48.9	--	56.5	73.5	56.9	69.3	55.8	57	52.2	54.4	
Chloride	mg/L	12.9	12	20.3	27.3	37.1	27	28	20	17	--	21	21	18.3	37.5	19.6	20.2	12.8	11	
Fluoride	mg/L	0.023 J	0.065 J	0.054 J	0.014 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	0.0506 J	<0.06	0.0842 J	0.0702 J	
pH_Field	SU	7.31	7.35	7.43	7.26	7.19	7.23	7.26	7.26	7.29	7.17	7.27	7.09	7.34	7.65	7.34	7.3	7.33	7.37	
Sulfate	mg/L	24.9	25.1	33.2	35.5	38.5	32	30	25	24	--	25	37	22.4	39.8	21.4	21.7	15.6	14.3	
TDS	mg/L	339	269	305	326	338	303	312	241	281	--	282	354	270	332	274	284	248	237	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.002 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000142 J	0.000177 J	
Barium	mg/L	0.0219	0.0196	0.0286	0.0261	0.0291	0.0229	0.0202	0.0186	--	0.0261	0.0231	0.0296	0.0254	0.0344	0.0185	0.0207	0.0151	0.0155	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	0.00322 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000909 J	0.000822 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Combined Radium 226 + 228	pCi/L	1 U	0.294 U	-0.021 U	0.705	0.491 U	0.367 U	--	0.0763 U	--	0.818	0.39 U	1.23	0.427	0.767	0.231 U	0.97 U	0.474 U	0.745 U	
Fluoride	mg/L	0.023 J	0.065 J	0.054 J	0.014 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	0.0506 J	<0.06	0.0842 J	0.0702 J	
Lead	mg/L	0.00247 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.015 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	0.000278 J	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000137 J	0.000264	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-5																		
		Date	03/30/2016	05/23/2016	07/14/2016	09/13/2016	11/15/2016	03/01/2017	05/23/2017	06/20/2017	08/15/2017	01/09/2018	04/17/2018	10/01/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021
Appendix III	Units																			
Boron	mg/L	1.82	2.11	2.18	2.13	2.22	2.24	2.2	2.2	2.16	--	2.22	2.64	1.78	2.31	0.84	2.05	0.885	0.725	
Calcium	mg/L	68.3	63.1	67.7	67.8	68.4	71.8	70.6	73.8	65.7	--	90	79.6	69.8	79.9	46.8	67.8	53.3	53.1	
Chloride	mg/L	31.9	29.4	29.5	30.8	30.7	40	40	44	36	--	63	49	39.9	42.8	17.5	44.2	18.8	14.6	
Fluoride	mg/L	0.048 J	0.076 J	0.058 J	0.025 J	<0.01	0.04 J	0.05 J	0.06 J	0.05 J	0.04 J	0.04 J	0.05 J	0.0555 J	0.0568 J	0.0647 J	<0.06	0.0874 J	0.1	
pH_Field	SU	7.61	7.68	7.79	7.69	7.72	7.55	7.64	7.5	7.46	7.71	7.29	7.68	7.47	7.53	7.47	7.7	7.47	7.55	
Sulfate	mg/L	146	160	173	173	177	160	160	150	170	--	130	140	122	167	39.8	152	38.7	33.5	
TDS	mg/L	398	411	424	426	412	452	448	437	440	--	454	449	390	434	228	406	256	240	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000689 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000148 J	0.000161 J	
Barium	mg/L	0.0339	0.0289	0.0281	0.0301	0.0296	0.0395	0.0307	0.0367	--	0.0269	0.0441	0.0298	0.0371	0.0335	0.0231	0.0332	0.027	0.0262	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000278 J	0.000418 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	9.62e-005 J	<6.8e-005	
Combined Radium 226 + 228	pCi/L	1 U	0.45	0.84	0.685	0.804	0.477	--	0.737	--	0.714	0.641	0.651	0.245 U	0.435 U	0.661	0.907 U	1.4	1.34	
Fluoride	mg/L	0.048 J	0.076 J	0.058 J	0.025 J	<0.01	0.04 J	0.05 J	0.06 J	0.05 J	0.04 J	0.04 J	0.05 J	0.0555 J	0.0568 J	0.0647 J	<0.06	0.0874 J	0.1	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00014 J	9.85e-005 J	
Lithium	mg/L	0.0307 J	0.0374 J	0.0499 J	0.0438 J	0.0494 J	0.0426 J	0.0416 J	0.0376 J	--	0.0461 J	0.0319 J	0.0482	0.0242	0.043	<0.01	0.0361	0.01 J	0.0086 J	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.205	0.257	0.273	0.313	0.314	0.344	0.287	0.265	--	0.352	0.135	0.294	0.164	0.261	0.0546	0.215	0.0562	0.0541	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-6																		
		Date	03/30/2016	05/19/2016	07/13/2016	09/13/2016	11/15/2016	03/01/2017	05/23/2017	06/20/2017	08/15/2017	01/10/2018	04/17/2018	10/04/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021
Appendix III	Units																			
Boron	mg/L	2.89	2.84	2.41	2.06	2.08	2.25	2.11	2.5	1.34	--	2.74	2.38	2.7	2.68	2.94	2.79	2.4	2.03	
Calcium	mg/L	75.7	69.7	62.7	48.3	51.8	58.4	54.8	67.9	52.5	--	77.1	61.2	80	83.9	83.1	82.5	75.5	69.2	
Chloride	mg/L	30.8	28.7	24.8	21.7	25.9	29	28	40	32	--	52	50	66.4	65.3	69.7	64.2	45.5	45.3	
Fluoride	mg/L	0.056 J	0.09 J	0.067 J	0.026 J	<0.01	<0.032	0.04 J	0.05 J	0.04 J	0.04 J	0.04 J	0.05 J	0.06 J	0.0634 J	<0.05	<0.06	0.0872 J	0.0862 J	
pH_Field	SU	7.95	7.88	8.07	8.04	7.93	7.89	7.96	7.87	7.86	7.98	7.82	7.87	7.73	7.85	7.8	7.62	7.02	7.92	
Sulfate	mg/L	204	206	176	151	161	160	160	160	160	--	160	150	200	177	178	189	151	156	
TDS	mg/L	430	422	391	378	354	389	375	416	394	--	437	418	445	445	455	485	436	415	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000812 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00105 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	9.55e-005 J	0.000138 J	
Barium	mg/L	0.0277	0.0282	0.0222	0.017	0.0151	0.0212	0.0162	0.02	--	0.0183	0.0271	0.0189	0.0241	0.023	0.0254	0.026	0.0211	0.0223	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000259 J	0.000345 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Combined Radium 226 + 228	pCi/L	1 U	0.544	0.0469 U	0.179 U	1.45	0.166 U	--	0.484	--	0.544	0.719	0.558	0.369	0.586	0.746	0.292 U	0.387 U	0.314 U	
Fluoride	mg/L	0.056 J	0.09 J	0.067 J	0.026 J	<0.01	<0.032	0.04 J	0.05 J	0.04 J	0.04 J	0.04 J	0.05 J	0.06 J	0.0634 J	<0.05	<0.06	0.0872 J	0.0862 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.0186	0.0188	0.017	0.00943 J	0.00741 J	0.0146	0.00996 J	0.0148	--	0.0122	0.0146	0.0101	0.0169	0.0138	0.0157	0.0185	0.0119	0.0118	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-7																		
		Date	03/30/2016	05/19/2016	07/13/2016	09/13/2016	11/15/2016	03/01/2017	05/23/2017	06/20/2017	08/15/2017	01/10/2018	04/17/2018	10/04/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021
Appendix III	Units																			
Boron	mg/L	1.85	1.66	1.58	0.674	1.72	1.84	1.69	1.75	1.68	--	1.81	2.34	1.64	2.16	1.99	1.81	1.9	1.52	
Calcium	mg/L	96.4	84.5	84	58.2	87.9	96.8	88	87.5	89.4	--	100	106	115	99.1	95.8	84.9	86.8	76.2	
Chloride	mg/L	16.9	14.9	12.6	8.09	14.3	18	19	18	18	--	16	25	15.7	29.5	28	22.3	22.4	16.5	
Fluoride	mg/L	0.034 J	0.072 J	0.054 J	0.021 J	<0.01	<0.032	0.04 J	0.04 J	0.04 J	0.04 J	<0.032	0.05 J	0.052 J	0.0578 J	0.0523 J	<0.06	0.0705 J	0.0882 J	
pH_Field	SU	7.45	7.5	7.58	7.53	7.48	7.46	7.51	7.52	7.43	7.57	7.5	7.49	7.24	7.52	7.51	7.32	7.51	7.74	
Sulfate	mg/L	215	204	155	89.8	176	200	200	180	210	--	170	200	186	199	207	160	164	143	
TDS	mg/L	472	458	412	312	426	487	487	421	490	--	464	504	428	489	490	434	436	379	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00089 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000194 J	0.000189 J	
Barium	mg/L	0.025	0.0249	0.0279	0.0153	0.0225	0.0261	0.0208	0.0244	--	0.0235	0.0252	0.0265	0.0236	0.029	0.0261	0.0248	0.0245	0.0218	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000506 J	0.000373 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Combined Radium 226 + 228	pCi/L	--	0.116 U	0.187 U	0.0165 U	0.236 U	0.213 U	--	0.16 U	--	0.889	0.623	0.971	0.326 U	0.56 U	0.512 U	0.652 U	0.743 U	0.319 U	
Fluoride	mg/L	0.034 J	0.072 J	0.054 J	0.021 J	<0.01	<0.032	0.04 J	0.04 J	0.04 J	0.04 J	<0.032	0.05 J	0.052 J	0.0578 J	0.0523 J	<0.06	0.0705 J	0.0882 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00021	0.000261	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-8																		
		Date	03/29/2016	05/23/2016	07/12/2016	09/13/2016	11/15/2016	02/28/2017	05/24/2017	06/20/2017	08/15/2017	10/10/2018	04/17/2018	10/01/2018	04/01/2019	09/17/2019	02/25/2020	07/29/2020	04/06/2021	09/21/2021
Appendix III	Units																			
Boron	mg/L	0.161	0.197	0.17	0.114	0.0853 J	0.0452 J	0.113	0.0853 J	0.0862 J	--	0.0649 J	0.03 J	0.0345 J	0.0439 J	<0.03	<0.03	0.0327 J	<0.03	
Calcium	mg/L	58.2	52.1	53.6	53	51.5	51.4	50.8	49.8	51.6	--	52.2	50.8	50.5	54.5	54.7	49.4	51.1	51.4	
Chloride	mg/L	5.14	5.03	4.66	3.98	3.71	5.2	5.4	5	4.6	--	3.6	3.9	3.9	3.96	3.81	3.77	3.9	3.8	
Fluoride	mg/L	0.104 J	0.131 J	0.105 J	0.057 J	<0.01	0.07 J	0.09 J	0.08 J	0.09 J	0.11	0.09 J	0.12	0.0956 J	0.0971 J	0.0898 J	0.0742 J	0.114	0.132	
pH_Field	SU	7.2	7.39	7.43	7.38	7.35	7.3	7.33	7.33	7.31	7.36	7.28	7.33	7.4	7.55	7.39	7.39	7.23	7.3	
Sulfate	mg/L	29.9	26.5	24.3	17.8	10.1	5.8	11	7.9	5	--	2.9 J	<1.4	1.8	4.62	3.89	3.25	3.29	1.95	
TDS	mg/L	290	312	292	276	262	290	296	273	279	--	250	246	268	257	252	253	256	256	
Appendix IV																				
Antimony	mg/L	0.00238 J	<0.0006	<0.0006	<0.0006	<0.0006	0.000718 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00155 J	0.00227 J	0.00206 J	0.00179 J	0.00171 J	0.00232 J	0.00151 J	0.00298 J	--	0.00196 J	0.00219 J	0.00188 J	0.00177 J	0.00112 J	<0.001	0.00152 J	0.00108	0.0012	
Barium	mg/L	0.0277	0.0261	0.0251	0.0189	0.0186	0.0196	0.0228	0.0188	--	0.0141	0.0179	0.0168	0.0209	0.0202	0.0168	0.0206	0.018	0.0179	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	0.00395 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000333 J	0.000313 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	9.45e-005 J	<6.8e-005	
Combined Radium 226 + 228	pCi/L	1 U	-0.317 U	-0.0583 U	0.127 U	0.406 U	-0.00408 U	--	0.22 U	--	0.0982 U	-0.237 U	0.601	-0.0724 U	0.645	0.362 U	0.398 U	0.53 U	0.0496 U	
Fluoride	mg/L	0.104 J	0.131 J	0.105 J	0.057 J	<0.01	0.07 J	0.09 J	0.08 J	0.09 J	0.11	0.09 J	0.12	0.0956 J	0.0971 J	0.0898 J	0.0742 J	0.114	0.132	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.0042 J	0.00283 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000895	0.000718	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-9																		
		Date	04/04/2016	05/23/2016	07/12/2016	09/13/2016	11/15/2016	02/28/2017	05/24/2017	06/20/2017	08/16/2017	01/10/2018	04/17/2018	10/01/2018	04/01/2019	09/17/2019	02/17/2020	07/29/2020	04/05/2021	09/21/2021
Appendix III	Units																			
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	0.0256 J	0.021 J	<0.02	<0.02	0.0213 J	--	0.0386 J	<0.02	<0.03	<0.03	<0.03	<0.03	0.0314 J	<0.03	
Calcium	mg/L	32.3	31.3	31.6	31.2	31.5	29.7	30.4	30.8	30.5	--	32.9	32.4	32.3	32.7	33.2	32.4	31.7	31.5	
Chloride	mg/L	5.89	5.2	5.71	5.88	6.04	8.6	9.3	7.8	7.6	--	7.5	8.9	8.42	8.59	8.74	8.93	9.25	9.17	
Fluoride	mg/L	0.109 J	0.1 J	0.11 J	0.075 J	0.023 J	0.11	0.11	0.12	0.11	0.12	0.12	0.14	0.136	0.128	0.15	0.116	0.15	0.181	
pH_Field	SU	7.32	7.66	7.77	7.7	7.69	7.66	7.64	7.62	7.51	7.72	7.57	7.59	7.64	8.07	7.75	7.66	7.8	7.72	
Sulfate	mg/L	13.5	1.78	0.915 J	<0.3	0.96 J	5.5	18	13	14	--	14	11	14.3	13.9	14.7	14.7	15.1	18.4	
TDS	mg/L	182	184	176	170	180	203	199	178	205	--	193	198	205	207	211	215	211	205	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000662 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00191 J	0.00213 J	0.00183 J	0.00168 J	0.00181 J	0.00404 J	0.00161 J	0.00155 J	--	0.00227 J	0.00174 J	0.00275 J	0.00269 J	0.00324 J	0.00246 J	0.00222 J	0.00234	0.00308	
Barium	mg/L	0.0789	0.0733	0.102	0.0793	0.0882	0.111	0.0914	0.0948	--	0.0836	0.0979	0.118	0.105	0.118	0.109	0.105	0.104	0.114	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000295 J	0.000323 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Combined Radium 226 + 228	pCi/L	1 U	0.0417 U	0.208 U	0.436 U	0.775	0.42 U	--	0.53	--	0.903	0.293 U	1.07	0.334	0.194 U	0.38 U	0.28 U	0.843 U	1.05 U	
Fluoride	mg/L	0.109 J	0.1 J	0.11 J	0.075 J	0.023 J	0.11	0.11	0.12	0.11	0.12	0.12	0.14	0.136	0.128	0.15	0.116	0.15	0.181	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.00344 J	0.00306 J	<0.002	<0.002	<0.002	<0.002	0.00364 J	0.00282 J	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000821	0.00102	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-10																		
		Date	03/30/2016	05/17/2016	07/13/2016	09/13/2016	11/15/2016	02/28/2017	05/22/2017	06/19/2017	08/14/2017	10/10/2018	04/16/2018	10/02/2018	04/03/2019	09/16/2019	02/17/2020	07/22/2020	04/05/2021	09/21/2021
Appendix III	Units																			
Boron	mg/L	0.0291 J	0.0466 J	0.0305 J	<0.02	<0.02	<0.02	<0.02	0.0204 J	0.0242 J	--	0.0466 J	0.0228 J	<0.03	<0.03	<0.03	<0.03	0.0854 J	0.0378 J	
Calcium	mg/L	38.2	33.9	36.7	38.1	38	39.4	37.4	37.4	36.4	--	38.7	39.7	39.9	39.1	39.7	38.5	40	38.4	
Chloride	mg/L	4.59	3.94	3.32	2.91	2.75	3.2	3.7	3.7	3.1	--	3.3	2.6	2.64	2.54	2.61	2.53	3.88	3.39	
Fluoride	mg/L	0.052 J	0.088 J	0.06 J	0.019 J	<0.01	<0.032	0.04 J	0.04 J	0.04 J	<0.032	0.04 J	0.04 J	<0.05	<0.05	0.051 J	<0.06	0.0627 J	0.0847 J	
pH_Field	SU	7.45	7.68	7.71	7.53	7.53	7.58	7.51	7.53	7.52	7.64	7.54	7.54	7.6	7.6	7.61	7.64	6.93	7.02	
Sulfate	mg/L	9.91	7.27	4.11	2.86	2.16	3.7 J	2.6 J	2.8 J	3.4 J	--	3.4 J	2.6 J	3.81	3.39	3.56	3.65	11.4	5.56	
TDS	mg/L	195	189	179	168	180	180	178	165	185	--	181	161	166	168	170	175	184	174	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000753 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00105 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000311	0.000239	
Barium	mg/L	0.0139	0.0188	0.0139	0.0121	0.0132	0.0148	0.0116	0.0113	--	0.0117	0.0145	0.0124	0.0129	0.0135	0.0127	0.0141	0.0142	0.0129	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000275 J	0.000253 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Combined Radium 226 + 228	pCi/L	1 U	0.364 U	0.347 U	0.567	0.305 U	0.346 U	--	0.614	--	0.629	0.0363 U	0.613	0.26 U	0.307 U	0.379 U	0.185 U	0.579 U	0.802 U	
Fluoride	mg/L	0.052 J	0.088 J	0.06 J	0.019 J	<0.01	<0.032	0.04 J	0.04 J	0.04 J	<0.032	0.04 J	0.04 J	<0.05	<0.05	0.051 J	<0.06	0.0627 J	0.0847 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000248	0.000183 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-11																		
		Date	03/30/2016	05/18/2016	07/13/2016	09/13/2016	11/14/2016	02/28/2017	05/22/2017	06/19/2017	08/14/2017	01/09/2018	04/16/2018	10/04/2018	04/03/2019	09/16/2019	02/17/2020	07/22/2020	04/05/2021	09/21/2021
Appendix III	Units																			
Boron	mg/L	0.112	0.118	0.125	0.108	0.126	0.12	0.116	0.12	0.124	--	0.163	0.206	0.216	0.207	0.221	0.205	0.271	0.283	
Calcium	mg/L	36.4	34.7	36.4	35.6	36.2	35.4	34.4	34.8	34.6	--	37.4	40.8	44.1	40.2	41	39	40.1	40.9	
Chloride	mg/L	6.36	5.93	5.93	5.92	5.95	6.7	7.1	6.2	6.7	--	6.2	6.9	6.35	6.49	6.66	6.75	7.09	7.14	
Fluoride	mg/L	0.026 J	0.068 J	0.049 J	0.018 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	0.04 J	<0.05	<0.05	0.0546 J	<0.06	0.0634 J	0.0847 J	
pH_Field	SU	7.63	7.64	7.84	7.69	7.7	7.79	7.72	7.73	7.67	7.82	7.71	7.71	7.75	7.71	7.74	7.76	7.63	7.64	
Sulfate	mg/L	32.2	30.8	32.4	30.9	32.1	32	32	33	34	--	33	37	44.2	49.2	45.2	45.3	50.1	55.4	
TDS	mg/L	184	186	192	187	185	198	185	189	135	--	174	208	200	207	209	216	217	217	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000823 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000237	0.00017 J	
Barium	mg/L	0.00993 J	0.011	0.012	0.01	0.00973 J	0.00989 J	0.00911 J	0.00908 J	--	0.00832 J	0.00942 J	0.00817 J	0.00993 J	0.00956 J	0.0088 J	0.0082 J	0.00832	0.00893	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000743 J	0.000923 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Combined Radium 226 + 228	pCi/L	1 U	0.224 U	0.177 U	0.216 U	0.318 U	0.551	--	0.418 U	--	0.402 U	0.437 U	0.703	0.2 U	0.507 U	0.568	0.24 U	0.13 U	0.0771 U	
Fluoride	mg/L	0.026 J	0.068 J	0.049 J	0.018 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	0.04 J	<0.05	<0.05	0.0546 J	<0.06	0.0634 J	0.0847 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00033	0.000264	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-12																		
		Date	03/30/2016	05/18/2016	07/13/2016	09/12/2016	11/14/2016	02/28/2017	05/24/2017	06/21/2017	08/14/2017	01/09/2018	04/16/2018	10/04/2018	04/03/2019	09/16/2019	02/18/2020	07/27/2020	04/05/2021	09/22/2021
Appendix III	Units																			
Boron	mg/L	0.287	0.286	0.299	0.302	0.323	0.336	0.342	0.342	0.359	--	0.384	0.503	0.401	0.423	0.433	0.444	0.427	0.447	
Calcium	mg/L	63.4	57.5	62.9	60.1	61.4	62.6	62.3	63	60.6	--	64.6	74.5	67.8	69.5	73.1	65.7	64.8	67.3	
Chloride	mg/L	21.4	19.6	19.6	19.7	19.7	22	22	21	21	--	20	21	19.7	19.8	19.6	19.8	19.7	19.7	
Fluoride	mg/L	0.039 J	0.078 J	0.058 J	0.023 J	<0.01	<0.032	0.05 J	0.05 J	0.04 J	0.04 J	0.04 J	0.04 J	<0.05	0.0538 J	0.0571 J	<0.06	0.0733 J	0.0887 J	
pH_Field	SU	7.39	7.34	7.52	7.39	7.42	7.46	7.39	7.36	7.36	7.45	7.36	7.37	7.37	7.44	7.42	7.47	6.88	7.48	
Sulfate	mg/L	85	83.8	86.2	91.8	91.2	86	92	88	100	--	91	76	102	108	110	108	96.8	131	
TDS	mg/L	353	343	352	346	322	353	234	372	372	--	365	372	372	377	378	378	372	375	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000648 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000871 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00148 J	0.00194 J	0.0021 J	0.00456 J	0.00241 J	0.0022 J	0.00564	0.00257 J	--	0.00886	0.00754	0.0081	0.00726	0.00538	0.00269 J	0.0041 J	0.00276	0.00529	
Barium	mg/L	0.0644	0.0794	0.0735	0.072	0.0768	0.0695	0.0671	0.0629	--	0.0658	0.0666	0.0667	0.073	0.0819	0.0726	0.077	0.0751	0.0815	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000278 J	0.000394 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000113 J	0.000156 J	
Combined Radium 226 + 228	pCi/L	1 U	0.678	0.707	1.04	0.586	1.09	--	1.05	--	1.22	0.769	1.5	0.669	1.04	1.34	1.85	1.2	1.4	
Fluoride	mg/L	0.039 J	0.078 J	0.058 J	0.023 J	<0.01	<0.032	0.05 J	0.05 J	0.04 J	0.04 J	0.04 J	0.04 J	<0.05	0.0538 J	0.0571 J	<0.06	0.0733 J	0.0887 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000366	0.000296	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-13																		
		Date	03/30/2016	05/18/2016	07/14/2016	09/12/2016	11/14/2016	02/28/2017	05/24/2017	06/21/2017	08/14/2017	01/09/2018	04/19/2018	10/05/2018	04/03/2019	09/17/2019	02/19/2020	07/27/2020	04/06/2021	09/22/2021
Appendix III	Units																			
Boron	mg/L	<0.02	<0.02	<0.02	0.0762 J	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	46.6	46.1	45.6	44.1	46	45	44.3	44.7	43.5	--	45.8	46.8	46.9	48.3	46.7	45.5	43.8	46.6	46.6
Chloride	mg/L	4.69	4.35	4.33	4.4	4.76	6.1	5.4	5.2	5.6	--	4.6	5.1	4.85	4.83	5.02	5.2	5.06	4.8	4.8
Fluoride	mg/L	0.042 J	0.08 J	0.06 J	0.028 J	<0.01	0.04 J	0.05 J	0.05 J	0.05 J	0.05 J	0.05 J	0.05 J	<0.05	0.0753 J	0.06 J	<0.06	0.0794 J	0.117	0.117
pH_Field	SU	7.27	7.37	7.51	7.39	7.37	7.32	7.44	7.39	7.39	7.5	7.38	7.25	7.41	7.45	7.42	7.48	7.5	7.59	7.59
Sulfate	mg/L	<0.3	0.492 J	0.38 J	<0.3	<0.3	<1.4	<1.4	<1.4	<1.4	--	<1.4	<1.4	0.925 J	<0.5	0.571 J	<0.5	<0.5	0.521 J	0.521 J
TDS	mg/L	202	207	203	205	197	221	204	218	217	--	201	208	201	204	206	202	193	210	210
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.000748 J	0.000755 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000661	0.000523	0.000523
Barium	mg/L	0.0337	0.038	0.0338	0.0331	0.0353	0.0388	0.0344	0.0302	--	0.0321	0.0361	0.0336	0.0363	0.0396	0.0381	0.0395	0.0389	0.0444	0.0444
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000353 J	0.000318 J	0.000318 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000142 J	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	1 U	0.539	0.652	0.325 U	0.734	0.629	--	0.637	--	0.825	0.546 U	1.04	0.577	0.958 U	0.702	0.986	0.66 U	0.834 U	0.834 U
Fluoride	mg/L	0.042 J	0.08 J	0.06 J	0.028 J	<0.01	0.04 J	0.05 J	0.05 J	0.05 J	0.05 J	0.05 J	0.05 J	<0.05	0.0753 J	0.06 J	<0.06	0.0794 J	0.117	0.117
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000106 J	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000329	0.000312	0.000312
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-14																		
		Date	03/28/2016	05/17/2016	07/11/2016	09/13/2016	11/15/2016	02/27/2017	05/24/2017	06/21/2017	08/15/2017	01/09/2018	04/19/2018	10/05/2018	04/03/2019	09/17/2019	02/19/2020	07/23/2020	04/06/2021	09/22/2021
Appendix III	Units																			
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	124	74.6	68.9	80.3	102	77.9	72.9	80	72.1	--	59.6	123	63.1	74.9	69.9	88.6	78.2	80	80
Chloride	mg/L	2.11	2.38	2.42	2.34	2.55	5.8	5.9	3.6	4.9	--	6.5	3.5	5.72	4.16	4.9	3.1	3.37	3.5	3.5
Fluoride	mg/L	0.084 J	0.098 J	0.086 J	0.061 J	<0.01	0.12	0.12	0.1	0.12	0.14	0.13	0.1	0.106	0.116	0.122	0.0954 J	0.124	0.149	0.149
pH_Field	SU	7.34	7.22	7.32	7.35	7.32	7.38	7.41	7.26	7.33	7.5	7.48	7.05	7.43	7.3	7.52	7.44	7.51	7.5	7.5
Sulfate	mg/L	66.6	63.9	57.6	82.8	118	62 J	56	75	67	--	53	160	75.2	131	110	97.9	77.5	116	116
TDS	mg/L	308	314	319	354	452	339	316	376	340	--	304	544	336	439	363	399	342	394	394
Appendix IV																				
Antimony	mg/L	0.000985 J	<0.0006	<0.0006	<0.0006	<0.0006	0.00076 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000939 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0048 J	0.0016 J	0.00112 J	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	0.00113 J	<0.001	<0.001	0.00108 J	<0.001	<0.001	0.000441	0.000574	0.000574
Barium	mg/L	0.0952	0.0437	0.0496	0.0493	0.0634	0.0593	0.0476	0.0481	--	0.0505	0.0574	0.0776	0.0619	0.0745	0.0653	0.0686	0.0659	0.0739	0.0739
Beryllium	mg/L	0.00119 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	0.00133	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00577 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000234 J	0.000302 J	0.000302 J
Cobalt	mg/L	0.00969 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	1 U	0.119 U	0.51 U	0.413 U	0.707	0.479 U	--	0.529	--	0.91	-0.42 U	0.955	0.189 U	0.558 U	0.404 U	1.48	0.875 U	0.44 U	0.44 U
Fluoride	mg/L	0.084 J	0.098 J	0.086 J	0.061 J	<0.01	0.12	0.12	0.1	0.12	0.14	0.13	0.1	0.106	0.116	0.122	0.0954 J	0.124	0.149	0.149
Lead	mg/L	0.0202	0.00114 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0107 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	0.00361 J	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000298	0.000522	0.000522
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-15R																				
		Date	07/11/2016	08/22/2016	09/14/2016	11/15/2016	01/03/2017	02/27/2017	05/22/2017	06/20/2017	08/14/2017	01/09/2018	04/19/2018	10/05/2018	04/03/2019	05/07/2019	09/18/2019	02/25/2020	07/28/2020	04/06/2021	09/28/2021	03/29/2016
Appendix III	Units																					
Boron	mg/L	0.829	0.835	0.838	0.894	0.897	0.897	0.892	0.91	0.906	--	0.991	4.34	4.18	4.13	3.47	3.13	2.7	2.54	2.34	1.32	
Calcium	mg/L	38.1	37.3	36.5	36.8	38	36.8	36.9	36.9	39.5	--	43.4	163	209	175	139	120	102	98.6	92.5	43.2	
Chloride	mg/L	23	23.3	23.6	23.8	24.1	27	28	27	27	--	32	120	156	180	142	138	110	105	98.3	10.8	
Fluoride	mg/L	0.076 J	0.067 J	0.036 J	<0.01	<0.01	0.06 J	0.07 J	0.07 J	0.07 J	0.08 J	0.08 J	0.1	0.104	0.0937 J	0.094 J	0.0995 J	0.0738 J	0.116	0.09 J	0.118 J	
pH_Field	SU	7.58	7.56	7.52	7.57	7.62	7.52	7.52	7.46	7.57	7.64	7.51	7.33	7.7	7.57	7.5	7.64	7.5	7.64	7.63	8.15	
Sulfate	mg/L	133	134	130	132	143	130	120	120	140	--	150	260	339	351	283	326	239	230	245	146	
TDS	mg/L	359	349	340	324	348	347	348	343	332	--	369	762	810	810	704	674	606	590	566	277	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000947 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00113 J	0.000998 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	0.000838 J	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	0.0015 J	0.00207 J	0.0016 J	<0.001	0.00129 J	0.00101 J	0.000767	0.000835	0.00385 J	
Barium	mg/L	0.0302	0.0267	0.0247	0.0273	0.026	0.0301	0.0274	0.0292	--	0.0316	0.0368	0.0818	0.134	0.0774	0.0799	0.0693	0.0635	0.0541	0.0615	0.031	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0002	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000777 J	0.000309 J	<0.002	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000352	0.0004	<0.002	
Combined Radium 226 + 228	pCi/L	0.302 U	0.613	0.301 U	0.538 U	0.394 U	0.129 U	--	0.362 U	--	1.35	0.438 U	1.47	1.16	1.36	0.94	0.669	2.35	1.2	1.04 U	2.84251 U	
Fluoride	mg/L	0.076 J	0.067 J	0.036 J	<0.01	<0.01	0.06 J	0.07 J	0.07 J	0.07 J	0.08 J	0.08 J	0.1	0.104	0.0937 J	0.094 J	0.0995 J	0.0738 J	0.116	0.09 J	0.118 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	
Lithium	mg/L	0.0133 J	0.0167 J	0.019 J	0.024 J	0.0305 J	0.038 J	0.0451 J	0.043 J	--	0.0595	0.0793	0.113	0.149	0.164	0.186	0.0848	0.0559	0.0423	0.0326	0.0774	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	
Molybdenum	mg/L	0.0542	0.0577	0.0627	0.0712	0.0788	0.121	0.117	0.121	--	0.138	0.141	0.214	0.433	0.292	0.307	0.209	0.167	0.156	0.137	0.288	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. *MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-16																	
		Date	05/17/2016	07/14/2016	09/13/2016	11/14/2016	02/28/2017	05/24/2017	06/19/2017	08/14/2017	01/09/2018	04/19/2018	10/01/2018	04/03/2019	09/16/2019	02/25/2020	07/28/2020	04/05/2021	09/28/2021
Appendix III	Units																		
Boron	mg/L	1.35	1.32	1.31	1.34	1.28	1.24	1.26	1.24	--	1.34	1.29	1.32	1.4	1.39	1.33	1.43	1.42	
Calcium	mg/L	41.4	41.9	39.6	41	41.8	39.8	40.2	41.3	--	42.3	41.5	45.8	61.3	50	48.1	57.6	65.3	
Chloride	mg/L	10	10.1	10.4	10.4	12	12	11	12	--	12	14	15.9	20.4	17.7	17.4	19.8	28.9	
Fluoride	mg/L	0.151 J	0.124 J	0.089 J	0.022 J	0.1	0.12	0.13	0.12	0.13	0.13	0.15	0.13	0.126	0.133	0.124	0.159	0.125	
pH_Field	SU	8.18	8.23	8.25	8.31	8.31	8.22	8.18	8.32	8.21	8.28	8.14	8.3	7.94	8.38	8.02	7.76	8.2	
Sulfate	mg/L	140	135	129	131	130	130	110	140	--	130	80	150	147	161	143	172	188	
TDS	mg/L	261	255	264	249	251	257	258	263	--	247	252	275	293	284	284	333	354	
Appendix IV																			
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.000632 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00337 J	0.00407 J	0.00394 J	0.0037 J	0.00409 J	0.00419 J	0.00424 J	--	0.00505	0.00484 J	0.00466 J	0.00469 J	0.00492 J	0.00495 J	0.00535	0.00452	0.00593	
Barium	mg/L	0.0313	0.0336	0.0286	0.0296	0.0315	0.0275	0.0279	--	0.0273	0.0307	0.0295	0.0327	0.0393	0.0353	0.0355	0.0421	0.051	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	9.99e-005 J	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000319 J	0.000315 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000679	0.000946	
Combined Radium 226 + 228	pCi/L	3.09	2.65	3.22	4.18	3.61	--	3	--	3.76	3.32	2.91	3.43	3.55	2.99	3.49	4.28	4.67	
Fluoride	mg/L	0.151 J	0.124 J	0.089 J	0.022 J	0.1	0.12	0.13	0.12	0.13	0.13	0.15	0.13	0.126	0.133	0.124	0.159	0.125	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.0738	0.0788	0.0748	0.0851	0.0766	0.0722	0.0693	--	0.0781	0.0752	0.076	0.0808	0.0926	0.0951	0.0903	0.111	0.126	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.269	0.305	0.306	0.305	0.368	0.275	0.26	--	0.316	0.275	0.267	0.317	0.32	0.343	0.328	0.514	0.538	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-17																		
		Date	03/29/2016	05/17/2016	07/14/2016	09/13/2016	11/16/2016	02/28/2017	05/24/2017	06/19/2017	08/14/2017	10/09/2018	04/19/2018	10/01/2018	04/03/2019	09/17/2019	02/26/2020	07/29/2020	04/06/2021	09/29/2021
Appendix III	Units																			
Boron	mg/L	3.04	3.1	2.96	2.94	2.96	2.92	2.66	2.7	2.64	--	2.87	2.83	2.92	3.25	3.24	3.06	3.48	3.37	
Calcium	mg/L	77.4	70.3	73	70.7	51.7	73.1	70.6	67.7	72.8	--	80.8	102	116	131	102	103	159	177	
Chloride	mg/L	14.7	13.8	13.8	14.1	14.2	17	17	16	17	--	21	30	38	43.2	27.7	26.5	52.8	94.3	
Fluoride	mg/L	0.221 J	0.241 J	0.213 J	0.168 J	0.103 J	0.22	0.2	0.21	0.22	0.24	0.22	0.25	0.182	0.187	0.189	0.185	0.179	0.211	
pH_Field	SU	9.66	9.56	9.63	9.57	9.59	9.56	9.71	9.67	9.62	9.77	9.59	9.48	9.56	9.18	9.61	9.38	9.59	9.33	
Sulfate	mg/L	254	251	246	238	234	240	230	200	250	--	250	280	346	322	351	309	421	425	
TDS	mg/L	451	432	434	432	412	434	425	424	428	--	455	492	536	592	561	566	772	842	
Appendix IV																				
Antimony	mg/L	0.00107 J	0.000869 J	0.000882 J	0.000807 J	0.000801 J	0.00129 J	0.000774 J	0.000792 J	--	0.000904 J	0.000731 J	<0.0008	0.00135 J	<0.0008	<0.0008	0.000845 J	0.000633 J	<0.000508	
Arsenic	mg/L	0.0125	0.0112	0.013	0.0124	0.0121	0.0127	0.0121	0.0129	--	0.0138	0.0125	0.0118	0.0106	0.0109	0.011	0.00947	0.00999	0.00941	
Barium	mg/L	0.0849	0.0891	0.0965	0.0811	0.0833	0.0897	0.0673	0.0767	--	0.074	0.088	0.0898	0.105	0.12	0.105	0.0978	0.119	0.119	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	0.000357 J	0.000216 J	0.000277 J	0.000203 J	0.00027 J	0.000351 J	0.000339 J	0.000318 J	--	<0.0003	0.000415 J	0.000491 J	0.00051 J	<0.0003	<0.0003	<0.0003	0.000391	0.000341	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000347 J	0.000285 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Combined Radium 226 + 228	pCi/L	1 U	0.792	0.864	1.01	1.27	0.347 U	--	0.317 U	--	1.07	1.31	0.793	0.907	2.09	1.35	1.85	0.689 U	1.18	
Fluoride	mg/L	0.221 J	0.241 J	0.213 J	0.168 J	0.103 J	0.22	0.2	0.21	0.22	0.24	0.22	0.25	0.182	0.187	0.189	0.185	0.179	0.211	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.646	0.613	0.616	0.592	0.603	0.562	0.561	0.543	--	0.621	0.591	0.628	0.716	0.785	0.752	0.731	1.01	1.03	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	2.19	2.24	2.1	2.3	1.92	2.6	1.77	1.9	--	2.14	1.87	1.95	2.33	2.33	2.83	2.79	3.56	3.23	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-18																		
		Date	03/29/2016	05/17/2016	07/18/2016	09/14/2016	11/14/2016	02/28/2017	05/24/2017	06/19/2017	08/14/2017	01/09/2018	04/19/2018	10/01/2018	04/03/2019	09/18/2019	02/25/2020	07/22/2020	04/06/2021	09/28/2021
Appendix III	Units																			
Boron	mg/L	1.33	1.37	1.31	1.28	1.31	1.29	1.17	1.24	1.19	--	1.3	1.26	1.27	1.47	1.38	1.37	1.44	1.58	
Calcium	mg/L	104	110	109	101	105	108	102	107	105	--	113	123	139	126	119	117	121	122	
Chloride	mg/L	11.1	10.3	10.3	10.3	10.3	12	13	12	12	--	12	13	12.1	12.2	12.2	12.3	12.4	13.2	
Fluoride	mg/L	0.04 J	0.079 J	0.058 J	0.025 J	<0.01	0.04 J	0.05 J	0.05 J	0.05 J	0.05 J	0.05 J	0.06 J	0.0678 J	0.0551 J	0.0701 J	0.0628 J	<0.06	0.0839 J	
pH_Field	SU	6.95	6.87	6.85	6.9	6.89	6.83	6.87	6.89	6.89	6.95	6.89	6.89	6.9	6.86	6.89	6.54	6.67	6.48	
Sulfate	mg/L	163	159	154	143	151	140	150	140	150	--	140	140	168	173	210	180	181	205	
TDS	mg/L	560	540	546	542	514	536	536	598	550	--	540	514	560	592	578	594	596	608	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000728 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00273 J	0.00237 J	0.0024 J	0.00243 J	0.00232 J	0.00259 J	0.00229 J	0.00248 J	--	0.00276 J	0.00259 J	0.00288 J	0.0067	0.00308 J	0.00265 J	0.00331 J	0.00272	0.00416	
Barium	mg/L	0.0435	0.0451	0.0428	0.0415	0.0422	0.0466	0.0382	0.0408	--	0.0394	0.0434	0.0424	0.045	0.0524	0.0474	0.05	0.0483	0.0525	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000334 J	0.000291 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000633	0.00132	
Combined Radium 226 + 228	pCi/L	1 U	1.2	1.19	1.31	1.29	0.727	--	0.98	--	1.79	0.981	1.54	1.49	1.25	1.13	2.35	1.68	1.94	
Fluoride	mg/L	0.04 J	0.079 J	0.058 J	0.025 J	<0.01	0.04 J	0.05 J	0.05 J	0.05 J	0.05 J	0.05 J	0.06 J	0.0678 J	0.0551 J	0.0701 J	0.0628 J	<0.06	0.0839 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.0396 J	0.04 J	0.0439 J	0.0371 J	0.0398 J	0.032 J	0.0331 J	0.0342 J	--	0.0382 J	0.0358 J	0.0386	0.0393	0.0492	0.0465	0.0507	0.05	0.0506	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.017	0.0167	0.0161	0.0183	0.0171	0.0209	0.0168	0.0173	--	0.0211	0.0186	0.0192	0.0214	0.0243	0.0228	0.0244	0.0307	0.0592	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.000428 J	0.000343 J	0.000359 J	0.000345 J	0.000367 J	0.000359 J	0.000376 J	0.000379 J	--	0.000312 J	0.000418 J	0.000371 J	0.00034 J	0.000479 J	0.000426 J	0.000456 J	0.000389	0.000358	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-19																		
		Date	03/28/2016	05/18/2016	07/13/2016	09/13/2016	11/16/2016	02/27/2017	05/22/2017	06/21/2017	08/14/2017	01/10/2018	04/19/2018	10/02/2018	04/01/2019	09/18/2019	02/18/2020	07/27/2020	04/05/2021	09/22/2021
Appendix III	Units																			
Boron	mg/L	0.0538 J	0.0252 J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	0.0258 J	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	46	42.9	43.1	44.1	42.7	43.1	41.9	41.8	43	--	43.2	43.8	45.6	45.6	45.5	42.6	42.6	42.1	42.1
Chloride	mg/L	9.86	9.4	10.3	9.68	10.2	12	12	12	12	--	11	<1.4	11.9	11.6	11.4	12.1	12.6	12.8	12.8
Fluoride	mg/L	0.083 J	0.092 J	0.064 J	0.03 J	<0.01	<0.032	0.04 J	0.05 J	0.04 J	0.04 J	0.04 J	0.05 J	0.0563 J	0.0507 J	0.0557 J	<0.06	0.088 J	0.0965 J	0.0965 J
pH_Field	SU	7.24	7.5	7.63	7.53	7.55	7.53	7.5	7.51	7.43	7.5	7.5	7.57	7.58	7.6	7.64	7.56	7.66	7.86	7.86
Sulfate	mg/L	16.8	14.9	24.2	16.8	21.7	23	26	20	22	--	24	24	24.4	23.6	25.6	23.7	23.1	25.9	25.9
TDS	mg/L	213	206	225	212	224	223	219	164	232	--	218	212	225	222	215	223	220	218	218
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00123 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00463 J	0.00511	0.004 J	0.00488 J	0.00513	0.00425 J	0.00252 J	0.00314 J	--	0.00294 J	0.00298 J	0.00361 J	0.0024 J	0.00322 J	0.00196 J	0.00221 J	0.00228	0.00221	0.00221
Barium	mg/L	0.037	0.0492	0.0555	0.0421	0.042	0.0407	0.0271	0.024	--	0.0195	0.0208	0.0186	0.0188	0.0211	0.0163	0.0165	0.0149	0.0162	0.0162
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000316 J	0.000237 J	0.000237 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	9.07e-005 J	0.00011 J	0.00011 J
Combined Radium 226 + 228	pCi/L	1 U	0.425	0.584	0.46 U	1.58	0.326 U	--	0.143 U	--	0.67	0.316 U	0.854	0.263 U	0.29 U	0.779	1.68	0.959 U	0.368 U	0.368 U
Fluoride	mg/L	0.083 J	0.092 J	0.064 J	0.03 J	<0.01	<0.032	0.04 J	0.05 J	0.04 J	0.04 J	0.04 J	0.05 J	0.0563 J	0.0507 J	0.0557 J	<0.06	0.088 J	0.0965 J	0.0965 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0157	0.0125	0.0138	0.0127	0.0118	0.0145	0.0122	0.0123	--	0.0127	0.0111	0.0113	0.0132	0.0128	0.0129	0.0133	0.0137	0.0136	0.0136
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-20																		
		Date	03/29/2016	05/18/2016	07/13/2016	09/14/2016	11/14/2016	02/28/2017	05/24/2017	06/19/2017	08/14/2017	01/09/2018	04/19/2018	10/01/2018	04/03/2019	09/18/2019	02/25/2020	07/22/2020	04/12/2021	09/28/2021
Appendix III	Units																			
Boron	mg/L	3.48	3.61	3.7	3.53	3.51	3.44	3.31	3.48	3.4	--	3.74	3.73	3.77	4.12	4.14	3.86	4.29	4.32	
Calcium	mg/L	163	160	158	156	156	150	150	153	159	--	192	184	206	172	178	161	161	170	
Chloride	mg/L	17.2	16.2	16.2	16.2	16.1	18	18	18	18	--	17	19	17.9	18.7	19	19.3	19.8	20	
Fluoride	mg/L	0.035 J	0.076 J	0.053 J	0.022 J	<0.01	<0.032	0.04 J	0.04 J	0.04 J	0.04 J	0.04 J	0.05 J	0.0657 J	<0.05	0.0566 J	<0.06	0.0644 J	0.0828 J	
pH_Field	SU	7.96	7.88	7.92	7.85	7.84	7.81	7.65	7.79	7.82	7.87	7.85	7.82	7.45	7.9	7.9	7.84	7.96	7.76	
Sulfate	mg/L	556	559	560	553	551	560	530	510	540	--	520	590	577	526	674	568	547	583	
TDS	mg/L	862	882	874	908	804	930	886	924	872	--	880	866	910	908	930	934	926	922	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000643 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00424 J	0.00409 J	0.00512	0.00411 J	0.00365 J	0.00369 J	0.00369 J	0.00397 J	--	0.00428 J	0.00374 J	0.00372 J	0.00398 J	0.00425 J	0.0043 J	0.00349 J	0.00368	0.00424	
Barium	mg/L	0.0691	0.074	0.0784	0.0658	0.0634	0.0676	0.0551	0.0604	--	0.0562	0.0634	0.061	0.0599	0.0651	0.0595	0.0612	0.0589	0.0603	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000123 J	7.99e-005 J	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00038 J	0.000288 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Combined Radium 226 + 228	pCi/L	17.244	19.9	18.1	20.3	17.2	13.9	--	15.6	--	14.7	11.6	15.7	13.8	15.7	12.9	15.6	15.6	15.4	
Fluoride	mg/L	0.035 J	0.076 J	0.053 J	0.022 J	<0.01	<0.032	0.04 J	0.04 J	0.04 J	0.04 J	0.04 J	0.05 J	0.0657 J	<0.05	0.0566 J	<0.06	0.0644 J	0.0828 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.118	0.12	0.135	0.115	0.114	0.0991	0.103	0.104	--	0.112	0.106	0.11	0.115	0.131	0.137	0.125	0.139	0.137	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.637	0.657	0.774	0.725	0.63	0.767	0.623	0.667	--	0.803	0.689	0.775	0.803	0.837	0.813	0.784	0.811	0.845	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-21																		
		Date	07/13/2016	08/22/2016	09/13/2016	11/15/2016	01/03/2017	03/01/2017	05/23/2017	06/20/2017	08/15/2017	01/10/2018	04/17/2018	10/04/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021
Appendix III	Units																			
Boron	mg/L	1.63	1.32	1.85	2.12	2.01	1.47	1.41	1.38	2.04	--	1.66	2.58	1.5	2.51	2.28	1.84	1.75	1.67	
Calcium	mg/L	66.6	52.8	68	75.2	80.9	58	56.3	56.8	54.5	--	64.5	102	61.1	98.3	95.5	80.8	72.7	73.4	
Chloride	mg/L	34.8	25.1	34.1	40.1	38.5	23	21	22	21	--	29	58	27	64	56.3	47	44.8	40.1	
Fluoride	mg/L	0.118 J	0.117 J	0.068 J	<0.01	<0.01	0.04 J	0.04 J	0.04 J	<0.032	0.06 J	<0.032	0.07 J	<0.05	0.0749 J	0.0804 J	<0.06	0.0739 J	0.0914 J	
pH_Field	SU	7.83	7.86	7.75	7.66	7.57	7.53	7.78	7.82	7.73	7.67	7.66	7.51	7.67	7.15	7.43	7.58	7.24	7.64	
Sulfate	mg/L	159	107	155	172	163	140	140	130	150	--	150	180	189	197	199	177	145	162	
TDS	mg/L	468	393	428	452	418	346	386	363	364	--	410	506	401	504	490	476	432	443	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00666	0.0088	0.00489 J	0.00395 J	0.00343 J	0.00348 J	0.00294 J	0.00286 J	--	0.00318 J	0.00195 J	0.00309 J	0.00134 J	0.00239 J	0.00116 J	0.00166 J	0.00103	0.00103	
Barium	mg/L	0.0425	0.0214	0.0628	0.06	0.0348	0.0395	0.0279	0.0255	--	0.033	0.0205	0.0314	0.0146	0.0362	0.0339	0.0223	0.0375	0.0408	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00032 J	0.000367 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000374	0.000238	
Combined Radium 226 + 228	pCi/L	0.355 U	0.816	0.761	1.43	1.11	0.378 U	--	0.224 U	--	1.11	0.367 U	1.05	0.182 U	0.435 U	0.032 U	0.275 U	1.12 U	0.815 U	
Fluoride	mg/L	0.118 J	0.117 J	0.068 J	<0.01	<0.01	0.04 J	0.04 J	0.04 J	<0.032	0.06 J	<0.032	0.07 J	<0.05	0.0749 J	0.0804 J	<0.06	0.0739 J	0.0914 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.0119	0.00256 J	0.00628 J	0.0105	0.0131	0.00593 J	0.00491 J	0.00392 J	--	0.0126	0.00623 J	0.0159	0.00611 J	0.0172	0.0139	0.00969 J	0.00838	0.00769	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-22																		
		Date	07/14/2016	08/22/2016	09/13/2016	11/15/2016	01/03/2017	03/01/2017	05/23/2017	06/20/2017	08/15/2017	01/09/2018	04/17/2018	10/04/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021
Appendix III	Units																			
Boron	mg/L	1.73	1.66	1.85	2.09	1.89	1.88	1.87	1.88	1.87	--	2.04	2.22	2.03	2.1	2.15	1.97	1.61	1.44	
Calcium	mg/L	61.5	71.3	70.3	69	77.4	77.4	76.6	83.6	81.8	--	94.1	99.5	134	102	95.9	92.3	79.7	78.9	
Chloride	mg/L	26.9	37.6	30	22.7	26.5	56	48	58	61	--	61	61	67.3	46.3	62.2	66.1	38.9	28.4	
Fluoride	mg/L	0.096 J	0.088 J	0.054 J	<0.01	<0.01	0.06 J	0.07 J	0.06 J	0.06 J	0.07 J	0.06 J	0.08 J	0.0613 J	0.065 J	0.0687 J	<0.06	0.0834 J	0.0934 J	
pH_Field	SU	7.74	7.55	7.63	7.74	7.69	7.47	7.5	7.37	7.26	7.49	7.33	7.47	7.33	7.21	7.33	7.43	6.7	7.23	
Sulfate	mg/L	172	170	171	173	183	170	180	160	170	--	160	150	212	180	196	175	124	114	
TDS	mg/L	435	426	430	404	428	484	460	485	488	--	477	467	522	460	497	500	409	402	
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000678 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00305 J	0.00169 J	0.00207 J	0.00321 J	0.00261 J	0.00135 J	0.00151 J	<0.001	--	<0.001	<0.001	<0.001	<0.001	0.00129 J	<0.001	<0.001	0.000184 J	0.000175 J	
Barium	mg/L	0.103	0.0662	0.0644	0.132	0.098	0.0423	0.0359	0.0396	--	0.034	0.043	0.0353	0.0471	0.0458	0.0439	0.0406	0.0352	0.0351	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000307 J	0.000309 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000333	0.000308	
Combined Radium 226 + 228	pCi/L	0.711	0.615	0.878	0.671	1	0.534	--	0.344 U	--	0.452 U	0.185 U	0.568	0.503	0.165 U	0.693	0.41 U	0.365 U	0.892 U	
Fluoride	mg/L	0.096 J	0.088 J	0.054 J	<0.01	<0.01	0.06 J	0.07 J	0.06 J	0.06 J	0.07 J	0.06 J	0.08 J	0.0613 J	0.065 J	0.0687 J	<0.06	0.0834 J	0.0934 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.0633	0.0436	0.069	0.094	0.0783	0.0627	0.0684	0.0637	--	0.0789	0.0638	0.0698	0.0703	0.0895	0.0691	0.0677	0.0456	0.0383	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-17SV					GN-AP-MW-20SV					GN-AP-MW-20V						
		Date	09/18/2019	02/26/2020	07/23/2020	04/06/2021	09/29/2021	05/07/2019	09/18/2019	02/25/2020	07/22/2020	04/12/2021	09/28/2021	09/18/2019	02/25/2020	07/22/2020	04/12/2021	09/28/2021
Appendix III	Units																	
Boron	mg/L	2.51	2.55	2.4	2.58	2.53	--	2.28	2.27	2.64	3.13	2.94	2.91	2.92	2.79	3.05	2.94	
Calcium	mg/L	101	87.1	87	99.9	103	--	128	123	132	132	135	124	124	119	121	127	
Chloride	mg/L	29.6	28.8	27.9	34.4	41.9	--	14.7	17.8	23.1	19.2	18	15.9	16.4	18.5	24.4	23.4	
Fluoride	mg/L	0.12	0.124	0.131	0.129	0.12	0.101	0.0879 J	0.0976 J	0.0955 J	0.108	0.0942 J	0.0523 J	0.0724 J	<0.06	0.0733 J	0.0697 J	
pH_Field	SU	7.13	7.55	7.54	7.56	7.61	7.11	7.14	7.16	7.18	7.02	6.87	8.32	8.31	8.25	8.14	8.03	
Sulfate	mg/L	260	302	276	297	304	--	379	470	432	421	423	481	599	507	499	528	
TDS	mg/L	499	495	513	572	568	--	680	708	744	768	740	784	802	814	844	850	
Appendix IV																		
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	--	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.00215 J	0.00199 J	0.00191 J	0.00217	0.00207	--	0.00253 J	0.00243 J	0.0042 J	0.00339	0.00296	<0.001	<0.001	0.00105 J	0.002	0.00222	
Barium	mg/L	0.0667	0.066	0.0673	0.0751	0.0826	--	0.0982	0.0912	0.12	0.127	0.132	0.0241	0.0239	0.0242	0.0273	0.0312	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	--	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	0.000173 J	0.000104 J	--	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	0.000346 J	0.000268 J	--	<0.002	<0.002	<0.002	0.000305 J	0.0003 J	<0.002	<0.002	<0.002	0.000634 J	0.00155	
Cobalt	mg/L	0.00327 J	0.00265 J	0.00251 J	0.00202	0.00206	--	0.00207 J	<0.002	<0.002	0.000454	0.00054	<0.002	<0.002	<0.002	<6.8e-005	0.000225	
Combined Radium 226 + 228	pCi/L	1.56	0.489 U	1.26 U	1.13	1.23	--	1.14	0.925	1.46	1.51	2.92	2.02	1.78	1.7	2.14	2.87	
Fluoride	mg/L	0.12	0.124	0.131	0.129	0.12	0.101	0.0879 J	0.0976 J	0.0955 J	0.108	0.0942 J	0.0523 J	0.0724 J	<0.06	0.0733 J	0.0697 J	
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	--	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	0.000234	0.000718	
Lithium	mg/L	0.129	0.193	0.153	0.251	0.196	--	0.0108 J	0.0117 J	<0.01	0.00768 J	0.00723 J	0.0399	0.0421	0.0423	0.0463	0.0451	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.801	1.02	0.968	1.26	1.11	--	0.264	0.257	0.147	0.146	0.147	0.271	0.281	0.288	0.311	0.324	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	--	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	0.000225 J	0.000254 J	0.000181 J	0.000213	--	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-17V					GN-AP-MW-16V					GN-AP-MW-23D				
		Date	09/17/2019	02/26/2020	07/23/2020	04/06/2021	09/29/2021	09/16/2019	02/25/2020	07/28/2020	04/05/2021	09/28/2021	09/18/2019	02/19/2020	07/21/2020	04/06/2021
Appendix III	Units															
Boron	mg/L	2.07	2.22	1.93	2.16	2.03	1.38	1.4	1.34	1.39	1.37	1.42	1.54	1.42	1.46	1.47
Calcium	mg/L	94	66.6	62	72.8	71.5	38.7	38.8	38.6	40.4	42.3	41.9	61.5	37.8	34.3	53
Chloride	mg/L	30.8	27.2	27	34.5	39.2	23.5	25.1	20.7	19.8	23.3	60.7	64	65.3	58.7	55
Fluoride	mg/L	0.0925 J	0.101	0.0891 J	0.0995 J	0.0713 J	0.0935 J	0.0992 J	0.0811 J	0.136	0.0851 J	0.0623 J	<0.05	0.0713 J	0.105	0.102
pH_Field	SU	8.66	8.84	8.49	8.6	8.3	8.32	8.61	8.09	8.54	8.59	7.72	7.92	7.63	7.89	8.08
Sulfate	mg/L	243	288	254	288	283	137	146	137	150	177	102	119	51.1	33.5	80.7
TDS	mg/L	458	467	457	525	509	275	288	274	289	297	378	436	331	309	377
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	0.000804 J	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.00136 J	0.00123 J	0.00128 J	0.00122	0.0015	0.00111 J	0.00105 J	0.00117 J	0.00117	0.0012	0.00255 J	<0.001	0.00175 J	0.0022	0.00102
Barium	mg/L	0.0475	0.0547	0.0424	0.0491	0.0502	0.0503	0.0507	0.052	0.0482	0.0547	0.027	0.052	0.0336	0.0353	0.0577
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	0.000249	0.000167 J	<0.0003	<0.0003	<0.0003	8.25e-005 J	8.11e-005 J	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	0.000443 J	0.000331 J	<0.002	<0.002	<0.002	0.00044 J	0.00033 J	<0.002	<0.002	<0.002	0.000305 J	0.000431 J
Cobalt	mg/L	<0.002	<0.002	<0.002	0.0001 J	<6.8e-005	<0.002	<0.002	<0.002	0.000888	0.000872	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	6.44	5.34	8.21	10.9	11	3.26	2.46	2.99	2.4	3.09	0.0448 U	0.384 U	0.608	0.312 U	0.618 U
Fluoride	mg/L	0.0925 J	0.101	0.0891 J	0.0995 J	0.0713 J	0.0935 J	0.0992 J	0.0811 J	0.136	0.0851 J	0.0623 J	<0.05	0.0713 J	0.105	0.102
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.432	0.465	0.405	0.522	0.467	0.312	0.318	0.307	0.319	0.318	<0.01	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	1.73	1.89	1.99	2.22	2.12	0.625	0.629	0.628	0.614	0.653	0.0054 J	0.0077 J	0.00231 J	0.00163	0.00549
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	0.000604 J	0.000552 J	0.000514 J	0.000465	0.000466	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-32V					GN-AP-MW-33V					GN-AP-MW-34V					GN-AP-MW-31VR					
		Date	10/22/2019	02/26/2020	07/20/2020	03/30/2021	09/27/2021	10/23/2019	02/25/2020	07/21/2020	03/30/2021	09/22/2021	10/22/2019	02/19/2020	07/21/2020	03/30/2021	09/29/2021	04/29/2020	07/27/2020	04/05/2021	09/29/2021	04/29/2020
Appendix III	Units																					
Boron	mg/L	0.489	0.446	0.369	0.399	0.401	0.309	0.337	0.247	0.231	0.145	2.65	2.82	2.69	2.85	2.81	0.204	0.157	0.171	0.155	0.182	
Calcium	mg/L	39.8	43.5	69.3	60.5	59.6	59	56.6	46.8	45.8	40.4	119	124	121	122	118	56.5	41.5	33.1	30.2	39.1	
Chloride	mg/L	19.1	20.1	43.1	45.3	38.1	18.6	29.2	27.7	27	21.6	18.3	17.5	18.1	19	19.7	25.4	33	30.6	29.9	145	
Fluoride	mg/L	0.127	0.143	0.169	0.216	0.245	0.181	0.235	0.313	0.29	0.363	0.193	0.13	0.118	0.106	0.136	0.269	0.428	0.558	0.656	0.397	
pH_Field	SU	8.49	8.01	7.42	7.86	8.14	7.59	7.72	7.51	7.82	7.78	8.14	8.09	7.98	7.88	8.44	7.68	7.97	8.19	8.47	8.05	
Sulfate	mg/L	125	119	169	144	150	72.7	55.5	24.4	17.4	36	486	492	496	452	496	93.9	49.6	21.7	13.7	214	
TDS	mg/L	292	315	521	483	447	334	353	333	329	354	820	802	816	810	844	373	361	319	309	742	
Appendix IV																						
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	
Arsenic	mg/L	0.00197 J	0.00438 J	<0.001	0.0046	0.00523	0.00358 J	0.00476 J	0.0111	0.00882	0.0209	0.00302 J	0.00393 J	0.00401 J	0.00303	0.00231	0.00315 J	0.00185 J	0.00359	0.00475	0.00178 J	
Barium	mg/L	0.0331	0.0489	0.0555	0.0584	0.0631	0.0459	0.0549	0.0654	0.0593	0.064	0.0559	0.0576	0.0477	0.0392	0.041	0.0364	0.0318	0.0267	0.0281	0.0831	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	
Chromium	mg/L	<0.002	<0.002	<0.002	0.000277 J	0.000288 J	<0.002	<0.002	<0.002	0.000264 J	0.000227 J	<0.002	<0.002	<0.002	0.000281 J	0.000319 J	<0.002	<0.002	0.000397 J	0.000257 J	<0.002	
Cobalt	mg/L	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	
Combined Radium 226 + 228	pCi/L	0.94	1.42	1.4	1.47	1.64	1.09	0.967	1.34	1.41	1.67	0.822	0.991	1.28	0.371 U	1.81	0.35 U	0.288 U	0.716 U	0.463 U	1.42	
Fluoride	mg/L	0.127	0.143	0.169	0.216	0.245	0.181	0.235	0.313	0.29	0.363	0.193	0.13	0.118	0.106	0.136	0.269	0.428	0.558	0.656	0.397	
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	
Lithium	mg/L	0.0757	0.0717	0.0659	0.07	0.0706	0.128	0.164	0.127	0.12	0.0901	0.0329	0.038	0.0378	0.0396	0.0365	<0.01	<0.01	<0.007105	<0.007105	0.0284	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.273	0.259	0.0857	0.0352	0.0407	0.196	0.126	0.0306	0.0174	0.0124	0.315	0.344	0.352	0.273	0.209	0.0456	0.0199	0.0133	0.0129	0.0994	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.002	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. *MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-36V			GN-AP-MW-35V				GN-AP-MW-37V				GN-AP-MW-29H				
	Date	07/20/2020	03/30/2021	09/22/2021	04/29/2020	07/21/2020	03/30/2021	09/29/2021	04/29/2020	07/20/2020	03/30/2021	09/27/2021	09/17/2019	02/25/2020	07/29/2020	04/05/2021	09/28/2021
Appendix III	Units																
Boron	mg/L	0.222	0.208	0.18	0.184	0.148	0.143	0.117	0.317	0.393	0.526	0.51	1.18	1.21	1.16	1.2	1.16
Calcium	mg/L	43.3	33.7	30.3	50	43.7	38.8	37.6	44.9	40.6	40.1	40.1	48.5	46.8	43.9	44.7	46.9
Chloride	mg/L	209	195	168	5.78	8.95	11.3	11.3	12.9	12.4	13.1	13.6	20.5	25.5	25.5	25.2	26.8
Fluoride	mg/L	0.407	0.405	0.452	0.141	0.157	0.187	0.223	0.164	0.158	0.169	0.187	0.0669 J	0.0683 J	0.0608 J	0.078 J	0.0614 J
pH_Field	SU	8.07	8.11	7.93	7.71	7.69	7.91	7.83	7.94	7.8	8.04	7.88	8.44	8.48	8.38	8.16	8.58
Sulfate	mg/L	259	199	192	39	43.4	39.4	38.5	99.9	94.9	97.3	104	161	177	163	168	172
TDS	mg/L	896	767	673	227	249	252	275	273	252	262	249	331	330	328	345	340
Appendix IV																	
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	<0.001	0.00131	0.00172	<0.001	0.00222 J	0.00223	0.00232	0.0042 J	0.00169 J	0.000664	0.000484	0.00222 J	0.00235 J	0.00237 J	0.00227	0.00222
Barium	mg/L	0.0841	0.0792	0.0847	0.0163	0.0199	0.0184	0.019	0.0336	0.0352	0.0355	0.0367	0.0567	0.0581	0.0549	0.0577	0.0597
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	0.000153 J
Chromium	mg/L	<0.002	0.000287 J	0.000286 J	<0.002	<0.002	0.000237 J	0.00023 J	<0.002	<0.002	0.000245 J	0.000379 J	<0.002	<0.002	<0.002	0.000293 J	0.000332 J
Cobalt	mg/L	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	1.54	1.83	1.95	0.455 U	0.537	0.768 U	1.27	3.65	4.06	4.78	4	13.2	13.7	16.2	18.7	16.8
Fluoride	mg/L	0.407	0.405	0.452	0.141	0.157	0.187	0.223	0.164	0.158	0.169	0.187	0.0669 J	0.0683 J	0.0608 J	0.078 J	0.0614 J
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0358	0.0297	0.0246	<0.01	<0.01	<0.007105	<0.007105	0.0377	0.0522	0.0615	0.061	0.289	0.307	0.303	0.323	0.302
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0698	0.0663	0.0506	0.0266	0.0268	0.0205	0.0199	0.208	0.213	0.227	0.221	1.04	1.09	0.999	1.01	1.01
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-28H					GN-AP-MW-23S					GN-AP-MW-26				
		Date	09/16/2019	02/25/2020	07/29/2020	04/05/2021	09/28/2021	09/17/2019	02/19/2020	07/21/2020	04/06/2021	09/21/2021	09/18/2019	02/19/2020	07/22/2020	04/07/2021
Appendix III	Units															
Boron	mg/L	0.805	0.789	0.779	0.796	0.788	0.735	1.2	0.743	0.672	0.541	1.33	1.34	1.18	1.16	1.13
Calcium	mg/L	46.7	42.6	39.6	39.9	39.7	66.8	73.5	64.2	55.2	48.9	81.8	73.7	67.7	69.3	68
Chloride	mg/L	15.6	16.9	17.5	17.2	18.3	44.7	42	45	30.7	20.6	41.5	43.2	37	40.3	29.7
Fluoride	mg/L	0.0768 J	0.0778 J	0.067 J	0.0933 J	0.0653 J	0.0892 J	0.0647 J	0.0903 J	0.109	0.105	<0.05	<0.05	<0.06	0.0741 J	0.0852 J
pH_Field	SU	8.22	8.32	8.3	7.91	8.38	6.88	7.36	7.28	7.23	7.27	7.49	7.54	7.42	7.57	7.76
Sulfate	mg/L	126	134	134	133	133	67.1	69.4	59.8	46.3	39.6	142	143	131	124	118
TDS	mg/L	276	276	278	287	269	342	357	318	280	246	433	423	406	406	379
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.0036 J	0.00352 J	0.0032 J	0.00321	0.0028	<0.001	<0.001	<0.001	0.00026	0.000169 J	<0.001	<0.001	<0.001	0.000148 J	0.000117 J
Barium	mg/L	0.0321	0.0304	0.0305	0.0309	0.0345	0.0316	0.0443	0.0312	0.0282	0.0229	0.0192	0.0166	0.0174	0.0177	0.0179
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	0.000648 J	0.000319 J	<0.002	<0.002	<0.002	0.000261 J	0.000306 J	<0.002	<0.002	<0.002	0.0003 J	0.000325 J
Cobalt	mg/L	<0.002	<0.002	<0.002	0.000304	0.000192 J	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	4.63	5.25	7.14	6.64	6.47	0.732	0.752	0.566	1 U	0.337 U	0.976	0.475 U	0.713	0.472 U	1.2 U
Fluoride	mg/L	0.0768 J	0.0778 J	0.067 J	0.0933 J	0.0653 J	0.0892 J	0.0647 J	0.0903 J	0.109	0.105	<0.05	<0.05	<0.06	0.0741 J	0.0852 J
Lead	mg/L	<0.001	<0.001	<0.001	0.000129 J	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.141	0.14	0.147	0.148	0.142	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.469	0.464	0.483	0.471	0.491	0.0142	0.0274	0.0181	0.0175	0.0146	<0.002	<0.002	0.0027 J	0.00202	0.00244
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	0.000683 J	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	0.000149 J	0.000116 J	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-27					GN-AP-MW-30H				
		Date	09/18/2019	02/25/2020	07/21/2020	04/06/2021	09/21/2021	10/22/2019	02/19/2020	07/23/2020	04/06/2021
Appendix III	Units										
Boron	mg/L	1.23	0.352	0.658	0.214	0.129	0.0484 J	0.0595 J	0.0482 J	0.0485 J	0.0481 J
Calcium	mg/L	81.7	31.5	54.3	25.9	22.3	89.1	83.8	79.1	78	78.8
Chloride	mg/L	56.7	22.1	35	17.4	13	32.3	31.5	30.4	34.4	31.9
Fluoride	mg/L	0.0618 J	0.0554 J	0.0959 J	0.0752 J	<0.06	0.187	0.236	0.17	0.193	0.19
pH_Field	SU	6.68	6.7	6.9	6.26	6.58	7.18	7.22	7.07	7.15	7.73
Sulfate	mg/L	120	26.5	69.6	18.3	12.1	23.4	43.2	35.3	37.8	28.7
TDS	mg/L	412	173	288	143	114	396	463	440	426	415
Appendix IV											
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	0.000159 J	0.000182 J	0.00169 J	0.00651	0.00536	0.00801	0.00696
Barium	mg/L	0.04	0.0149	0.0251	0.0151	0.0139	0.0702	0.109	0.0899	0.082	0.0813
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	0.000362 J	0.000274 J	<0.002	<0.002	<0.002	0.000317 J	0.000384 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	0.00127	0.00112
Combined Radium 226 + 228	pCi/L	1.01	0.269 U	0.488 U	0.21 U	0 U	1.13	0.994	2.13	1.8	1.7
Fluoride	mg/L	0.0618 J	0.0554 J	0.0959 J	0.0752 J	<0.06	0.187	0.236	0.17	0.193	0.19
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	0.0107 J	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0187	0.00511 J	0.0141	0.00355	0.00298	0.00346 J	0.00389 J	0.00248 J	0.00231	0.00213
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-1															
	Date	3/29/2016	03/30/2016	05/19/2016	07/12/2016	09/13/2016	11/15/2016	02/28/2017	05/23/2017	06/19/2017	08/15/2017	01/10/2018	04/17/2018	10/01/2018	04/01/2019	05/09/2019	09/17/2019
Appendix III	Units																
Boron	mg/L	<0.02	--	<0.02	<0.02	<0.02	0.0246 J	<0.02	<0.02	<0.02	<0.02	--	0.0459 J	<0.02	<0.03	--	<0.03
Calcium	mg/L	45.6	--	49.7	53.8	53.5	55.1	55.3	55.7	55.1	57	--	56.4	57.2	59.2	--	60.7
Chloride	mg/L	2.16	--	2.11	2.93	2.91	2.72	3.5	3.7	3.2	2.9	--	3.3	2.3	4.75	--	4.14
Fluoride	mg/L	0.058 J	--	0.093 J	0.092 J	0.045 J	<0.01	0.07 J	0.08 J	0.08 J	0.08 J	0.08 J	0.08 J	0.1	0.0791 J	--	0.0876 J
pH_Field	SU	7.39	--	7.35	7.46	7.43	7.42	7.36	7.33	7.34	7.31	7.36	7.24	7.36	7.41	7.33	7.62
Sulfate	mg/L	15.9	--	18	24.6	11.6	9.07	10	16	13	16	--	20	23	33.1	--	28.3
TDS	mg/L	274	--	270	289	275	258	291	260	270	284	--	263	270	294	302	285
Appendix IV																	
Antimony	mg/L	0.00112 J	--	0.000818 J	<0.0006	<0.0006	<0.0006	0.000622 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.0013 J	--	<0.0008
Arsenic	mg/L	0.00412 J	--	0.00313 J	0.00459 J	0.00531	0.00571	0.00766	0.00528	0.00513	--	0.00565	0.00762	0.00529	0.00679	--	0.00422 J
Barium	mg/L	0.017	--	0.0161	0.02	0.0176	0.02	0.0247	0.0187	0.0172	--	0.0195	0.024	0.0225	0.0266	--	0.0282
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003
Chromium	mg/L	0.00233 J	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	0.00439 J	<0.002	<0.002	<0.002	--	<0.002
Cobalt	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	--	<0.002
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.949	0.73	0.948	1.28	0.232 U	--	1.02	--	0.707	0.467 U	0.864	0.564	--	0.43 U
Fluoride	mg/L	0.058 J	--	0.093 J	0.092 J	0.045 J	<0.01	0.07 J	0.08 J	0.08 J	0.08 J	0.08 J	0.08 J	0.1	0.0791 J	--	0.0876 J
Lead	mg/L	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001
Lithium	mg/L	0.0182 J	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	--	<0.0003
Molybdenum	mg/L	0.0463	--	0.0326	0.0164	0.0072 J	0.00598 J	0.00869 J	0.0132	0.0128	--	0.0153	0.0124	0.0131	0.0191	--	0.017
Selenium	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	--	<0.002
Thallium	mg/L	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix B.
Historical Groundwater Analytical Data
Gaston Ash Pond
2016-Present**

Analytes	Wells	GN-AP-MW-2														
		Date	03/28/2016	05/18/2016	07/11/2016	09/14/2016	11/16/2016	03/01/2017	05/23/2017	06/19/2017	08/15/2017	01/10/2018	04/19/2018	10/03/2018	04/01/2019	09/18/2019
Appendix III	Units															
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	
Calcium	mg/L	34.2	32.6	32.5	32.1	33.4	33.3	32.7	32.6	31.5	--	34.2	38.6	35.8	35	
Chloride	mg/L	1.73	1.4	1.73	2.24	3.57	3.4	2.4	1.9 J	5.4	--	1.8 J	<1.4	1.36	1.53	
Fluoride	mg/L	0.028 J	0.064 J	0.054 J	0.016 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	0.04 J	<0.05	<0.05	
pH_Field	SU	7.79	7.73	7.99	7.75	7.64	7.65	7.67	7.65	7.69	7.8	7.54	7.68	7.76	7.69	
Sulfate	mg/L	2.09	1.92	3.41	4.94	10.5	5.1	2.3 J	2.1 J	1.7 J	--	<1.4	1.7 J	1.87	2.39	
TDS	mg/L	138	156	167	166	192	186	158	156	168	--	154	156	160	154	
Appendix IV																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00062 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000946 J	<0.0008	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	0.00105 J	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium	mg/L	0.00887 J	0.00816 J	0.0096 J	0.00964 J	0.0247	0.0282	0.0187	0.0164	--	0.0149	0.0147	0.0131	0.0116	0.0118	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	
Combined Radium 226 + 228	pCi/L	1 U	0.142 U	0.279 U	0.205 U	0.373 U	0.217 U	--	0.357 U	--	0.239 U	-0.125 U	0.185 U	0.162 U	-0.0854 U	
Fluoride	mg/L	0.028 J	0.064 J	0.054 J	0.016 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	0.04 J	<0.05	<0.05	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	
Molybdenum	mg/L	0.00274 J	<0.002	<0.002	<0.002	0.00215 J	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000265 J	0.000239 J	0.000202 J	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "MDL" or "U" indicates non-detect

Appendix C



Appendix B.
Tabulated Historical Groundwater Elevations
Gaston Ash Pond
2016-Present

Well Name	Top of Casing Elevation	Groundwater Elevation (ft NAVD)										
		3/28/2016	4/12/2016	5/16/2016	7/11/2016	9/12/2016	11/14/2016	2/27/2017	5/22/2017	6/19/2017	8/14/2017	
GN-AP-MW-1	460.54	432.03	432.34	431.33	430.58	430.48	429.35	431.57	431.52	432.42	432.63	
GN-AP-MW-2	445.67	432.56	433.79	432.71	432.69	432.59	432.16	432.74	433.43	433.55	433.62	
GN-AP-MW-3	447.14	431.94	433.27	432.11	429.73	432.14	431.81	432.17	433.04	433.2	433.25	
GN-AP-MW-4	440.57	430.53	435.66	428.25	426.12	425.2	423.27	428.82	428.34	430.38	431.53	
GN-AP-MW-5	431.30	421.08	425.56	419.52	417.43	417.26	416.08	420.74	419.54	421.89	423.55	
GN-AP-MW-6	427.85	417.77	422.98	417.07	416.02	415.82	415.39	417.91	417.21	418.02	418.47	
GN-AP-MW-7	420.02	415.16	416.66	414.16	410.16	409.45	407.55	415.11	413.72	415.21	415.14	
GN-AP-MW-8	429.63	416.93	419.7	416.49	410.2	409.65	405.81	416.88	416.24	416.99	417.28	
GN-AP-MW-9	424.85	419.49	420.21	419.25	417.27	416.92	414.77	419.49	419.47	419.65	419.45	
GN-AP-MW-10	425.69	419.79	421.17	419.5	418.98	418.44	417.24	419.95	420.14	420.11	420.16	
GN-AP-MW-11	425.39	420.7	422.27	420.24	419.63	419.52	419.1	421.01	420.62	421.21	421.48	
GN-AP-MW-12	425.22	424.82	424.85	424.54	424.12	424.12	422.77	424.85	424.79	424.81	424.78	
GN-AP-MW-13	424.04	423.76	--	423.84	423.74	423.79	423.26	423.89	423.75	423.71	424.04	
GN-AP-MW-14	427.20	399.19	399.5	399.25	399.07	399.53	399.84	401.55	399.86	399.88	400.5	
GN-AP-MW-15R	442.60	--	--	--	402.9	402.84	402.82	403.12	403.36	403.51	403.59	
GN-AP-MW-16	422.30	402.65	403.22	402.6	402.75	402.53	402.38	402.81	402.83	402.99	403.2	
GN-AP-MW-17	407.75	407.55	407.5	407.64	407.51	407.54	407.75	407.75	407.75	407.75	407.75	
GN-AP-MW-18	416.13	395.92	396.37	395.86	396.12	395.85	395.89	395.88	395.8	395.88	395.96	
GN-AP-MW-19	416.16	412.84	413.89	412.24	412.06	412.02	411.25	412.47	412.81	413.75	413.96	
GN-AP-MW-20	406.65	398.36	398.95	398.4	398.4	398.14	397.79	398.28	398.11	398.21	398.21	
GN-AP-MW-21	428.25	--	--	--	416.3	416.14	415.6	418.34	417.54	418.62	419.16	
GN-AP-MW-22	427.11	--	--	--	416.7	416.55	415.59	419.65	418.52	420.59	421.65	
GN-AP-MW-16V	422.88	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-17V	405.25	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-17SV	406.92	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-20V	406.25	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-20SV	405.78	--	--	--	--	--	--	--	--	--	--	
GN-AP-PZ-23D	428.69	--	--	--	--	--	--	--	--	--	--	
GN-AP-PZ-23S	429.15	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-26	425.51	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-27	428.35	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-28H	413.90	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-29H	407.06	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-30H	437.87	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-31V	438.49	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-31VR	438.65	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-32V	453.77	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-33V	454.29	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-34V	447.98	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-35V	449.39	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-36V	454.37	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-37V	453.46	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-38	404.93	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-39	416.71	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-40	414.32	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-41	407.28	--	--	--	--	--	--	--	--	--	--	
GN-AP-MW-42	433.01	--	--	--	--	--	--	--	--	--	--	

- Notes:
- (1) ft NAVD - feet above North American Vertical Datum (88)
 - (2) "-" indicates not measured
 - (3) Q1 - quartile 1, Q3 - quartile 3, IQR - Interquartile Range
 - (4) 1,5IQR Method used



Appendix B.
Tabulated Historical Groundwater Elevations
Gaston Ash Pond
2016-Present

Well Name	Top of Casing Elevation	Groundwater Elevation											
		(ft NAVD)											
		1/9/2018	4/16/2018	10/1/2018	4/1/2019	9/16/2019	2/17/2020	4/29/2020	7/20/2020	3/29/2021	4/12/2021	9/21/2021	
GN-AP-MW-1	460.54	431.16	432.58	431.3	432.14	428.36	--	--	--	--	--	--	
GN-AP-MW-2	445.67	433.19	433.75	433.85	431.74	429.25	--	--	--	--	--	--	
GN-AP-MW-3	447.14	432.93	433.29	433.73	430.71	428.11	432.58	430.40	426.85	430.50	--	429.35	
GN-AP-MW-4	440.57	427.56	435.31	424.26	428.29	420.57	438.60	434.34	421.16	431.37	--	426.36	
GN-AP-MW-5	431.30	419.9	425.45	419.16	419.87	413.86	426.28	424.68	414.32	422.61	--	421.35	
GN-AP-MW-6	427.85	417.53	419.32	416.76	417.51	413.47	419.02	418.05	412.97	417.63	--	417.29	
GN-AP-MW-7	420.02	414.44	416.34	412	415.41	407.47	416.58	415.95	411.23	416.10	--	415.28	
GN-AP-MW-8	429.63	416.29	417.83	414.2	417.11	406.9	417.98	417.48	413.37	417.56	--	417.35	
GN-AP-MW-9	424.85	419.4	420.19	418.58	419.52	415.75	419.84	419.64	418.01	419.74	--	419.76	
GN-AP-MW-10	425.69	412.35	420.52	419.58	420.91	418.03	420.44	420.26	419.25	420.64	--	421.00	
GN-AP-MW-11	425.39	419.94	422.21	420.37	422.06	419.35	422.02	421.91	420.2	421.90	--	422.18	
GN-AP-MW-12	425.22	424.78	425.22	425.22	425.22	423.48	425.22	425.22	425.22	425.22	--	425.22	
GN-AP-MW-13	424.04	423.69	424.04	424.04	424.04	424.04	424.04	424.04	424.04	423.20	--	424.04	
GN-AP-MW-14	427.20	399.27	399.96	399.88	399.71	399.42	401.33	400.86	399.95	400.32	--	400.71	
GN-AP-MW-15R	442.60	403.35	403.87	403.19	403.47	402.2	404.02	402.24	400.69	402.11	--	400.03	
GN-AP-MW-16	422.30	403.41	403.99	403.3	402.93	402.2	404.01	401.89	400.96	402.30	--	400.06	
GN-AP-MW-17	407.75	407.75	407.75	407.75	407.75	407.75	407.75	407.75	407.75	406.30	--	404.59	
GN-AP-MW-18	416.13	396.08	396.43	395.86	396.19	395.96	398.18	397.21	395.97	398.51	--	395.92	
GN-AP-MW-19	416.16	412.51	414.2	412.8	412.99	409.86	415.86	414.36	411.22	414.09	--	413.40	
GN-AP-MW-20	406.65	398.4	398.83	398.06	398.57	397.99	400.20	398.59	398.07	400.53	--	397.69	
GN-AP-MW-21	428.25	417.91	419.93	417.2	417.81	413.5	420.14	418.89	412.83	417.80	--	417.37	
GN-AP-MW-22	427.11	418.89	423.34	418.13	418.91	413.36	423.61	422.23	413.5	420.40	--	419.59	
GN-AP-MW-16V	422.88	--	--	--	415.81	413.41	413.48	410.39	407.92	406.78	--	405.34	
GN-AP-MW-17V	405.25	--	--	--	404.95	405.25	404.95	403.83	402.79	403.24	--	401.49	
GN-AP-MW-17SV	406.92	--	--	--	398.54	398.5	399.87	398.15	397.81	399.70	--	397.81	
GN-AP-MW-20V	406.25	--	--	--	399.13	398.55	400.72	398.95	398.44	400.84	--	398.07	
GN-AP-MW-20SV	405.78	--	--	--	396.32	396.02	398.23	396.50	396.06	398.73	--	396.28	
GN-AP-PZ-23D	428.69	--	--	--	419.35	413.44	425.61	423.43	417.62	422.06	--	420.88	
GN-AP-PZ-23S	429.15	--	--	--	419.92	413.85	426.02	424.61	--	422.68	--	421.54	
GN-AP-MW-26	425.51	--	--	--	416.69	413.14	417.84	417.19	--	417.21	--	416.58	
GN-AP-MW-27	428.35	--	--	--	419.95	413.86	426.43	424.52	413.88	422.87	--	421.74	
GN-AP-MW-28H	413.90	--	--	--	408.28	406.7	407.70	405.10	414.27	403.79	--	401.94	
GN-AP-MW-29H	407.06	--	--	--	406.82	407.06	407.06	407.06	412.83	405.87	--	403.81	
GN-AP-MW-30H	437.87	--	--	--	--	--	398.29	396.08	413.72	398.48	--	395.85	
GN-AP-MW-31V	438.49	--	--	--	--	--	398.17	397.11	403.59	397.04	--	395.90	
GN-AP-MW-31VR	438.65	--	--	--	--	--	--	396.69	407.06	397.91	--	395.95	
GN-AP-MW-32V	453.77	--	--	--	--	--	422.87	419.38	395.76	411.74	--	411.11	
GN-AP-MW-33V	454.29	--	--	--	--	--	416.52	419.90	402.18	410.58	--	409.19	
GN-AP-MW-34V	447.98	--	--	--	--	--	406.28	404.70	414.34	405.71	--	402.16	
GN-AP-MW-35V	449.39	--	--	--	--	--	--	404.07	413.35	404.33	--	401.57	
GN-AP-MW-36V	454.37	--	--	--	--	--	--	414.34	396.27	410.40	--	408.45	
GN-AP-MW-37V	453.46	--	--	--	--	--	--	417.12	395.97	410.38	--	409.54	
GN-AP-MW-38	404.93	--	--	--	--	--	--	--	--	--	399.27	397.7	
GN-AP-MW-39	416.71	--	--	--	--	--	--	--	--	--	401.81	397.19	
GN-AP-MW-40	414.32	--	--	--	--	--	--	--	--	--	400.89	397.39	
GN-AP-MW-41	407.28	--	--	--	--	--	--	--	--	--	400.37	397.28	
GN-AP-MW-42	433.01	--	--	--	--	--	--	--	--	--	400.1	397.08	

Notes:
(1) ft NAVD - feet above North American Vertical Datum (88)
(2) "-" indicates not measured
(3) Q1 - quartile 1, Q3 - quartile 3, IQR - Interquartile Range
(4) 1,5IQR Method used



Appendix B.
Tabulated Historical Groundwater Elevations
Gaston Ash Pond
2016-Present

Well Name	Top of Casing Elevation	Variation and Anomaly Detection					
		Parameters (ft or ft NAVD)					
		Standard Dev	Q1	Q3	IQR	Expected Lowerbound	Expected Upperbound
GN-AP-MW-1	460.54	1.18	430.87	432.29	1.42	428.74	434.42
GN-AP-MW-2	445.67	1.13	432.58	433.60	1.03	431.03	435.14
GN-AP-MW-3	447.14	1.84	430.48	433.12	2.64	426.51	437.09
GN-AP-MW-4	440.57	4.70	425.89	431.45	5.56	417.55	439.79
GN-AP-MW-5	431.30	3.49	418.73	423.08	4.35	412.20	429.61
GN-AP-MW-6	427.85	2.05	416.58	418.04	1.46	414.39	420.23
GN-AP-MW-7	420.02	2.88	411.81	415.68	3.87	406.00	421.49
GN-AP-MW-8	429.63	3.80	413.99	417.42	3.42	408.86	422.55
GN-AP-MW-9	424.85	1.47	418.44	419.70	1.26	416.55	421.58
GN-AP-MW-10	425.69	1.90	419.18	420.48	1.30	417.24	422.43
GN-AP-MW-11	425.39	1.04	420.14	421.97	1.83	417.39	424.71
GN-AP-MW-12	425.22	0.64	424.72	425.22	0.50	423.97	425.97
GN-AP-MW-13	424.04	0.25	423.75	424.04	0.30	423.30	424.48
GN-AP-MW-14	427.20	0.68	399.48	400.41	0.93	398.09	401.81
GN-AP-MW-15R	442.60	1.04	402.24	403.47	1.23	400.40	405.32
GN-AP-MW-16	422.30	0.90	402.36	403.21	0.85	401.09	404.49
GN-AP-MW-17	407.75	0.73	407.55	407.75	0.20	407.24	408.05
GN-AP-MW-18	416.13	0.75	395.88	396.28	0.40	395.28	396.88
GN-AP-MW-19	416.16	1.31	412.20	413.93	1.73	409.60	416.52
GN-AP-MW-20	406.65	0.70	398.10	398.58	0.48	397.38	399.30
GN-AP-MW-21	428.25	1.95	416.30	418.62	2.32	412.82	422.10
GN-AP-MW-22	427.11	2.96	416.70	420.59	3.89	410.87	426.43
GN-AP-MW-16V	422.88	3.64	407.35	413.45	6.09	398.21	422.59
GN-AP-MW-17V	405.25	1.28	403.02	404.95	1.94	400.11	407.85
GN-AP-MW-17SV	406.92	0.78	397.98	399.12	1.14	396.27	400.83
GN-AP-MW-20V	406.25	1.02	398.50	399.93	1.43	396.35	402.07
GN-AP-MW-20SV	405.78	1.03	396.17	397.37	1.20	394.38	399.16
GN-AP-PZ-23D	428.69	3.71	418.49	422.75	4.26	412.10	429.14
GN-AP-PZ-23S	429.15	3.93	420.33	424.13	3.80	414.62	429.83
GN-AP-MW-26	425.51	1.53	416.61	417.21	0.60	415.71	418.10
GN-AP-MW-27	428.35	4.58	416.92	423.70	6.78	406.75	433.87
GN-AP-MW-28H	413.90	3.67	404.45	407.99	3.55	399.13	413.31
GN-AP-MW-29H	407.06	2.54	406.35	407.06	0.71	405.27	408.13
GN-AP-MW-30H	437.87	6.71	396.08	398.48	2.40	392.48	402.08
GN-AP-MW-31V	438.49	2.71	397.04	398.17	1.13	395.35	399.87
GN-AP-MW-31VR	438.65	4.48	396.51	400.20	3.69	390.97	405.74
GN-AP-MW-32V	453.77	9.35	411.11	419.38	8.27	398.71	431.79
GN-AP-MW-33V	454.29	6.14	409.19	416.52	7.33	398.20	427.52
GN-AP-MW-34V	447.98	4.10	404.70	406.28	1.58	402.33	408.65
GN-AP-MW-35V	449.39	4.47	403.45	406.59	3.14	398.74	411.30
GN-AP-MW-36V	454.37	6.75	405.41	411.39	5.98	396.44	420.36
GN-AP-MW-37V	453.46	7.68	406.15	412.07	5.92	397.27	420.94
GN-AP-MW-38	404.93	0.78	398.09	398.88	0.79	396.92	400.06
GN-AP-MW-39	416.71	2.31	398.35	400.66	2.31	394.88	404.12
GN-AP-MW-40	414.32	1.75	398.27	400.02	1.75	395.64	402.64
GN-AP-MW-41	407.28	1.54	398.05	399.60	1.55	395.74	401.92
GN-AP-MW-42	433.01	1.51	397.84	399.35	1.51	395.57	401.61

- Notes:
- (1) ft NAVD - feet above North American Vertical Datum (88)
 - (2) "-" indicates not measured
 - (3) Q1 - quartile 1, Q3 - quartile 3, IQR - Interquartile Range
 - (4) 1,5IQR Method used

Appendix D

Field Case Narrative



Alabama Power Company
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Alabama
2016
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Alabama Power Company

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All samples were collected using methods defined in Alabama Power's Water Field Group Low

Detailed description of sampling methods and locations.

Alabama Power Company

Alabama Power Company

- Alabama Power Company
- Alabama Power Company

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWGASAP_1317

Project/Site : Gaston Ash Pond
Wilsonville, AL 35186

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

May 13, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between March 31, 2021 and April 14, 2021. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2021

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2021.05.14 15:12:46 -05'00'

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.05.18 09:26:40 -05'00'

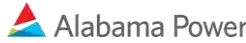
REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



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Case Narrative



Total Metals ICP

Gaston Ash Pond

WMWGASAP_1317

- 1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
- 2. Refer to comments on Chain of Custody for information regarding sample receipt.
- 3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB06216	695776	WMWGASAP_1317
BB06217	695776	WMWGASAP_1317
BB06218	695776	WMWGASAP_1317
BB06219	695776	WMWGASAP_1317
BB06220	695776	WMWGASAP_1317
BB06221	695776	WMWGASAP_1317
BB06222	695776	WMWGASAP_1317
BB06515	695776	WMWGASAP_1317
BB06516	695776	WMWGASAP_1317
BB06517	695776	WMWGASAP_1317
BB06518	695777	WMWGASAP_1317
BB06519	695777	WMWGASAP_1317
BB06520	695777	WMWGASAP_1317
BB06521	695777	WMWGASAP_1317
BB06522	695777	WMWGASAP_1317
BB06523	695777	WMWGASAP_1317
BB06524	695777	WMWGASAP_1317
BB06622	695777	WMWGASAP_1317
BB06623	695777	WMWGASAP_1317
BB06624	695777	WMWGASAP_1317
BB06625	695778	WMWGASAP_1317
BB06626	695778	WMWGASAP_1317
BB06627	695778	WMWGASAP_1317
BB06628	695778	WMWGASAP_1317
BB06629	695778	WMWGASAP_1317
BB06630	695778	WMWGASAP_1317
BB06631	695778	WMWGASAP_1317
BB06632	695778	WMWGASAP_1317
BB06633	695778	WMWGASAP_1317
BB06634	695778	WMWGASAP_1317
BB06635	695779	WMWGASAP_1317

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BB06636	695779	WMWGASAP_1317
BB06637	695779	WMWGASAP_1317
BB06638	695779	WMWGASAP_1317
BB06639	695779	WMWGASAP_1317
BB06640	695779	WMWGASAP_1317
BB06641	695779	WMWGASAP_1317
BB06642	695779	WMWGASAP_1317
BB06643	695779	WMWGASAP_1317
BB06644	695779	WMWGASAP_1317
BB06645	696249	WMWGASAP_1317
BB06646	696249	WMWGASAP_1317
BB06911	696249	WMWGASAP_1317
BB06912	696249	WMWGASAP_1317
BB06913	696249	WMWGASAP_1317
BB06914	696249	WMWGASAP_1317
BB06915	696249	WMWGASAP_1317
BB06916	696249	WMWGASAP_1317
BB06993	696249	WMWGASAP_1317
BB06994	696249	WMWGASAP_1317
BB06995	696250	WMWGASAP_1317
BB06996	696250	WMWGASAP_1317
BB06997	696250	WMWGASAP_1317
BB06998	696250	WMWGASAP_1317
BB06999	696250	WMWGASAP_1317

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.

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- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BB06634 Sodium MS/MSD spike level was less than 30% of the sample concentration.
 - BB06517 Calcium MS/MSD spike level was less than 30% of the sample concentration.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution factor</u>
BB06216	Calcium, Sodium	10.15
BB06218	Sodium	10.15
BB06219	Calcium, Sodium	10.15
BB06220	Calcium, Magnesium	10.15
BB06516	Calcium	10.15
BB06517	Calcium	10.15
BB06519	Calcium	10.15
BB06521	Calcium	10.15
BB06522	Calcium	10.15
BB06523	Calcium, Sodium	10.15
BB06524	Calcium, Magnesium	10.15
BB06622	Calcium	10.15
BB06624	Calcium	10.15
BB06625	Sodium	10.15
BB06627	Calcium	10.15
BB06628	Calcium, Sodium	10.15

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BB06629	Calcium	10.15
BB06630	Magnesium	10.15
BB06632	Calcium	10.15
BB06633	Calcium	10.15
BB06636	Calcium	10.15
BB06637	Calcium	10.15
BB06638	Calcium	10.15
BB06639	Calcium	10.15
BB06640	Calcium	10.15
BB06641	Calcium	10.15
BB06642	Calcium	10.15
BB06643	Calcium	10.15
BB06644	Calcium	10.15
BB06645	Calcium	10.15
BB06914	Calcium, Magnesium	10.15
BB06915	Calcium, Iron, Magnesium	10.15
BB06916	Calcium, Magnesium	10.15

8. The raw data results are shown with dilution factors included.

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Case Narrative



Dissolved Metals ICP

Gaston Ash Pond

WMWGASAP_1317

- 1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
- 2. Refer to comments on Chain of Custody for information regarding sample receipt.
- 3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB06216	695740	WMWGASAP_1317
BB06217	695740	WMWGASAP_1317
BB06218	695740	WMWGASAP_1317
BB06219	695740	WMWGASAP_1317
BB06220	695740	WMWGASAP_1317
BB06221	695740	WMWGASAP_1317
BB06515	695740	WMWGASAP_1317
BB06516	695740	WMWGASAP_1317
BB06517	695740	WMWGASAP_1317
BB06518	695740	WMWGASAP_1317
BB06519	695741	WMWGASAP_1317
BB06521	695741	WMWGASAP_1317
BB06522	695741	WMWGASAP_1317
BB06523	695741	WMWGASAP_1317
BB06524	695741	WMWGASAP_1317
BB06622	695741	WMWGASAP_1317
BB06623	695741	WMWGASAP_1317
BB06624	695741	WMWGASAP_1317
BB06625	695741	WMWGASAP_1317
BB06627	695741	WMWGASAP_1317
BB06628	695742	WMWGASAP_1317
BB06629	695742	WMWGASAP_1317
BB06630	695742	WMWGASAP_1317
BB06631	695742	WMWGASAP_1317
BB06632	695742	WMWGASAP_1317
BB06633	695742	WMWGASAP_1317
BB06634	695742	WMWGASAP_1317
BB06635	695742	WMWGASAP_1317
BB06636	695742	WMWGASAP_1317
BB06637	695742	WMWGASAP_1317
BB06638	695743	WMWGASAP_1317

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BB06639	695743	WMWGASAP_1317
BB06640	695743	WMWGASAP_1317
BB06641	695743	WMWGASAP_1317
BB06642	695743	WMWGASAP_1317
BB06643	695743	WMWGASAP_1317
BB06644	695743	WMWGASAP_1317
BB06645	695743	WMWGASAP_1317
BB06911	696224	WMWGASAP_1317
BB06912	696224	WMWGASAP_1317
BB06914	696224	WMWGASAP_1317
BB06915	696224	WMWGASAP_1317
BB06916	696224	WMWGASAP_1317
BB06993	696224	WMWGASAP_1317
BB06994	696224	WMWGASAP_1317
BB06995	696224	WMWGASAP_1317
BB06996	696224	WMWGASAP_1317
BB06997	696224	WMWGASAP_1317
BB06998	696225	WMWGASAP_1317

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.

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- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.

7. The following sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution factor</u>
BB06915	Iron	10.15

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Gaston Ash Pond

WMWGASAP_1317

- 1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
- 2. Refer to comments on Chain of Custody for information regarding sample receipt.
- 3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB06216	696420	WMWGASAP_1317
BB06217	696420	WMWGASAP_1317
BB06218	696420	WMWGASAP_1317
BB06219	696420	WMWGASAP_1317
BB06220	696420	WMWGASAP_1317
BB06221	696420	WMWGASAP_1317
BB06222	696420	WMWGASAP_1317
BB06515	696420	WMWGASAP_1317
BB06516	696420	WMWGASAP_1317
BB06517	696420	WMWGASAP_1317
BB06518	696421	WMWGASAP_1317
BB06519	696421	WMWGASAP_1317
BB06520	696421	WMWGASAP_1317
BB06521	696421	WMWGASAP_1317
BB06522	696421	WMWGASAP_1317
BB06523	696421	WMWGASAP_1317
BB06524	696421	WMWGASAP_1317
BB06622	696421	WMWGASAP_1317
BB06623	696421	WMWGASAP_1317
BB06624	696421	WMWGASAP_1317
BB06625	696422	WMWGASAP_1317
BB06626	696422	WMWGASAP_1317
BB06627	696422	WMWGASAP_1317
BB06628	696422	WMWGASAP_1317
BB06629	696422	WMWGASAP_1317
BB06630	696422	WMWGASAP_1317
BB06631	696422	WMWGASAP_1317
BB06632	696422	WMWGASAP_1317
BB06633	696422	WMWGASAP_1317
BB06634	696422	WMWGASAP_1317
BB06635	696423	WMWGASAP_1317

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BB06636	696423	WMWGASAP_1317
BB06637	696423	WMWGASAP_1317
BB06638	696423	WMWGASAP_1317
BB06639	696423	WMWGASAP_1317
BB06640	696423	WMWGASAP_1317
BB06641	696423	WMWGASAP_1317
BB06642	696423	WMWGASAP_1317
BB06643	696423	WMWGASAP_1317
BB06644	696423	WMWGASAP_1317
BB06645	696424	WMWGASAP_1317
BB06646	696424	WMWGASAP_1317
BB06911	696424	WMWGASAP_1317
BB06912	696424	WMWGASAP_1317
BB06913	696424	WMWGASAP_1317
BB06914	696424	WMWGASAP_1317
BB06915	696424	WMWGASAP_1317
BB06916	696424	WMWGASAP_1317
BB06993	696424	WMWGASAP_1317
BB06994	696424	WMWGASAP_1317
BB06995	696425	WMWGASAP_1317
BB06996	696425	WMWGASAP_1317
BB06997	696425	WMWGASAP_1317
BB06998	696425	WMWGASAP_1317
BB06999	696425	WMWGASAP_1317

- 4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
- 5. All samples were prepared and analyzed within the established hold times.
- 6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.

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- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution factor</u>
BB06521	Molybdenum	5.075
BB06523	Molybdenum	5.075
BB06997	Manganese	5.075
BB06998	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Gaston Ash Pond

WMWGASAP_1317

- 1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
- 2. Refer to comments on Chain of Custody for information regarding sample receipt.
- 3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB06216	696317	WMWGASAP_1317
BB06217	696317	WMWGASAP_1317
BB06218	696317	WMWGASAP_1317
BB06219	696317	WMWGASAP_1317
BB06220	696317	WMWGASAP_1317
BB06221	696317	WMWGASAP_1317
BB06515	696317	WMWGASAP_1317
BB06516	696317	WMWGASAP_1317
BB06517	696317	WMWGASAP_1317
BB06518	696317	WMWGASAP_1317
BB06519	696318	WMWGASAP_1317
BB06521	696318	WMWGASAP_1317
BB06522	696318	WMWGASAP_1317
BB06523	696318	WMWGASAP_1317
BB06524	696318	WMWGASAP_1317
BB06622	696318	WMWGASAP_1317
BB06623	696318	WMWGASAP_1317
BB06624	696318	WMWGASAP_1317
BB06625	696318	WMWGASAP_1317
BB06627	696318	WMWGASAP_1317
BB06628	696319	WMWGASAP_1317
BB06629	696319	WMWGASAP_1317
BB06630	696319	WMWGASAP_1317
BB06631	696319	WMWGASAP_1317
BB06632	696319	WMWGASAP_1317
BB06633	696319	WMWGASAP_1317
BB06634	696319	WMWGASAP_1317
BB06635	696319	WMWGASAP_1317
BB06636	696319	WMWGASAP_1317
BB06637	696319	WMWGASAP_1317
BB06638	696320	WMWGASAP_1317

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BB06639	696320	WMWGASAP_1317
BB06640	696320	WMWGASAP_1317
BB06641	696320	WMWGASAP_1317
BB06642	696320	WMWGASAP_1317
BB06643	696320	WMWGASAP_1317
BB06644	696320	WMWGASAP_1317
BB06645	696320	WMWGASAP_1317
BB06911	696320	WMWGASAP_1317
BB06912	696320	WMWGASAP_1317
BB06914	696321	WMWGASAP_1317
BB06915	696321	WMWGASAP_1317
BB06916	696321	WMWGASAP_1317
BB06993	696321	WMWGASAP_1317
BB06994	696321	WMWGASAP_1317
BB06995	696321	WMWGASAP_1317
BB06996	696321	WMWGASAP_1317
BB06997	696321	WMWGASAP_1317
BB06998	696321	WMWGASAP_1317

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

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Quality Assurance
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Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BB06998 Manganese MS/MSD spike level was less than 30% of the sample concentration.
- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. The following sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution factor</u>
BB06997	Manganese	5.075
BB06998	Manganese	5.075

8. The raw data results are shown with dilution factors included.

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Case Narrative



Mercury

Gaston Ash Pond

WMWGASAP_1317

- 1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
- 2. Refer to comments on Chain of Custody for information regarding sample receipt.
- 3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB06216	695426	WMWGASAP_1317
BB06217	695426	WMWGASAP_1317
BB06218	695426	WMWGASAP_1317
BB06219	695426	WMWGASAP_1317
BB06220	695426	WMWGASAP_1317
BB06221	695426	WMWGASAP_1317
BB06222	695426	WMWGASAP_1317
BB06515	695685	WMWGASAP_1317
BB06516	695685	WMWGASAP_1317
BB06517	695685	WMWGASAP_1317
BB06518	695685	WMWGASAP_1317
BB06519	695685	WMWGASAP_1317
BB06520	695685	WMWGASAP_1317
BB06521	695685	WMWGASAP_1317
BB06522	695685	WMWGASAP_1317
BB06523	695685	WMWGASAP_1317
BB06524	695685	WMWGASAP_1317
BB06622	695686	WMWGASAP_1317
BB06623	695686	WMWGASAP_1317
BB06624	695686	WMWGASAP_1317
BB06625	695686	WMWGASAP_1317
BB06626	695686	WMWGASAP_1317
BB06627	695686	WMWGASAP_1317
BB06628	695686	WMWGASAP_1317
BB06629	695686	WMWGASAP_1317
BB06630	695686	WMWGASAP_1317
BB06631	695686	WMWGASAP_1317
BB06632	695687	WMWGASAP_1317
BB06633	695687	WMWGASAP_1317
BB06634	695687	WMWGASAP_1317
BB06635	695687	WMWGASAP_1317

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BB06636	695687	WMWGASAP_1317
BB06637	695687	WMWGASAP_1317
BB06638	695687	WMWGASAP_1317
BB06639	695687	WMWGASAP_1317
BB06640	695687	WMWGASAP_1317
BB06641	695687	WMWGASAP_1317
BB06642	695955	WMWGASAP_1317
BB06643	695955	WMWGASAP_1317
BB06644	695955	WMWGASAP_1317
BB06645	695955	WMWGASAP_1317
BB06646	695955	WMWGASAP_1317
BB06911	695955	WMWGASAP_1317
BB06912	695955	WMWGASAP_1317
BB06913	695955	WMWGASAP_1317
BB06914	695955	WMWGASAP_1317
BB06915	695955	WMWGASAP_1317
BB06916	696014	WMWGASAP_1317
BB06993	696014	WMWGASAP_1317
BB06994	696014	WMWGASAP_1317
BB06995	696014	WMWGASAP_1317
BB06996	696014	WMWGASAP_1317
BB06997	696014	WMWGASAP_1317
BB06998	696014	WMWGASAP_1317
BB06999	696014	WMWGASAP_1317

- 4. All of the above samples were analyzed and prepared by EPA 245.1.
- 5. All samples were prepared and analyzed within the established hold times.
- 6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.

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- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.

- 7. All samples were analyzed without a dilution.
- 8. The raw data results are shown with dilution factors included.

TDS

Gaston Ash Pond

WMWGASAP_1317

- 1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
- 2. Refer to comments on Chain of Custody for information regarding sample receipt.
- 3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB06216	695113	WMWGASAP_1317
BB06217	695113	WMWGASAP_1317
BB06218	695113	WMWGASAP_1317
BB06219	695113	WMWGASAP_1317
BB06220	695113	WMWGASAP_1317
BB06221	695113	WMWGASAP_1317
BB06222	695113	WMWGASAP_1317
BB06515	695519	WMWGASAP_1317
BB06516	695519	WMWGASAP_1317
BB06517	695519	WMWGASAP_1317
BB06518	695519	WMWGASAP_1317
BB06519	695519	WMWGASAP_1317
BB06520	695519	WMWGASAP_1317
BB06521	695519	WMWGASAP_1317
BB06522	695519	WMWGASAP_1317
BB06523	695519	WMWGASAP_1317
BB06524	695519	WMWGASAP_1317
BB06622	695711	WMWGASAP_1317
BB06623	695711	WMWGASAP_1317
BB06624	695711	WMWGASAP_1317
BB06625	695711	WMWGASAP_1317
BB06626	695711	WMWGASAP_1317
BB06627	695711	WMWGASAP_1317
BB06628	695711	WMWGASAP_1317
BB06629	695711	WMWGASAP_1317
BB06630	695711	WMWGASAP_1317
BB06631	695711	WMWGASAP_1317
BB06632	695712	WMWGASAP_1317
BB06633	695712	WMWGASAP_1317
BB06634	695712	WMWGASAP_1317
BB06635	695712	WMWGASAP_1317

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BB06636	695712	WMWGASAP_1317
BB06637	695712	WMWGASAP_1317
BB06638	695712	WMWGASAP_1317
BB06639	695712	WMWGASAP_1317
BB06640	695712	WMWGASAP_1317
BB06641	695712	WMWGASAP_1317
BB06642	695852	WMWGASAP_1317
BB06643	695852	WMWGASAP_1317
BB06644	695852	WMWGASAP_1317
BB06645	695852	WMWGASAP_1317
BB06646	695852	WMWGASAP_1317
BB06911	696210	WMWGASAP_1317
BB06912	696210	WMWGASAP_1317
BB06913	696210	WMWGASAP_1317
BB06914	696210	WMWGASAP_1317
BB06915	696210	WMWGASAP_1317
BB06916	696210	WMWGASAP_1317
BB06993	696210	WMWGASAP_1317
BB06994	696210	WMWGASAP_1317
BB06995	696210	WMWGASAP_1317
BB06996	696210	WMWGASAP_1317
BB06997	696211	WMWGASAP_1317
BB06998	696211	WMWGASAP_1317
BB06999	696211	WMWGASAP_1317

- 4. All of the above samples were analyzed by Standard Method 2540C.
- 5. All samples were analyzed within the established hold times.
- 6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB06222
 - BB06520
 - BB06626
 - BB06646
 - BB06913
 - BB06999

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Anions

Gaston Ash Pond

WMWGASAP_1317

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB06216	695207, 695208, & 695209	WMWGASAP_1317
BB06217	695207, 695208, & 695209	WMWGASAP_1317
BB06218	695207, 695208, & 695209	WMWGASAP_1317
BB06219	695207, 695208, & 695209	WMWGASAP_1317
BB06220	695207, 695208, & 695209	WMWGASAP_1317
BB06221	695207, 695208, & 695209	WMWGASAP_1317
BB06222	695207, 695208, & 695209	WMWGASAP_1317
BB06515	695641, 695642, & 695889	WMWGASAP_1317
BB06516	695641, 695642, & 695889	WMWGASAP_1317
BB06517	695641, 695642, & 695889	WMWGASAP_1317
BB06518	695641, 695642, & 695889	WMWGASAP_1317
BB06519	695641, 695642, & 695889	WMWGASAP_1317
BB06520	695641, 695642, & 695889	WMWGASAP_1317
BB06521	695641, 695642, & 695889	WMWGASAP_1317
BB06522	695641, 695642, & 695889	WMWGASAP_1317
BB06523	695641, 695642, & 695889	WMWGASAP_1317
BB06524	695641, 695642, & 695889	WMWGASAP_1317
BB06622	695700, 695703, & 695890	WMWGASAP_1317
BB06623	695700, 695703, & 695890	WMWGASAP_1317
BB06624	695700, 695703, & 695890	WMWGASAP_1317
BB06625	695700, 695703, & 695890	WMWGASAP_1317
BB06626	695700, 695703, & 695890	WMWGASAP_1317
BB06627	695700, 695703, & 695890	WMWGASAP_1317
BB06628	695700, 695703, & 695890	WMWGASAP_1317
BB06629	695700, 695703, & 695890	WMWGASAP_1317
BB06630	695700, 695703, & 695890	WMWGASAP_1317
BB06631	695700, 695703, & 695890	WMWGASAP_1317
BB06632	695701, 695704, & 695891	WMWGASAP_1317
BB06633	695701, 695704, & 695891	WMWGASAP_1317
BB06634	695701, 695704, & 695891	WMWGASAP_1317
BB06635	695701, 695704, & 695891	WMWGASAP_1317

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BB06636	695701, 695704, & 695891	WMWGASAP_1317
BB06637	695701, 695704, & 695891	WMWGASAP_1317
BB06638	695701, 695704, & 695891	WMWGASAP_1317
BB06639	695701, 695704, & 695891	WMWGASAP_1317
BB06640	695701, 695704, & 695891	WMWGASAP_1317
BB06641	695701, 695704, & 695891	WMWGASAP_1317
BB06642	695702, 695705, & 695892	WMWGASAP_1317
BB06643	695702, 695705, & 695892	WMWGASAP_1317
BB06644	695702, 695705, & 695892	WMWGASAP_1317
BB06645	695702, 695705, & 695892	WMWGASAP_1317
BB06646	695702, 695705, & 695892	WMWGASAP_1317
BB06911	696137, 696141, & 695893	WMWGASAP_1317
BB06912	696137, 696141, & 695893	WMWGASAP_1317
BB06913	696137, 696141, & 695893	WMWGASAP_1317
BB06914	696137, 696141, & 695893	WMWGASAP_1317
BB06915	696137, 696141, & 695893	WMWGASAP_1317
BB06916	696137, 696141, & 695893	WMWGASAP_1317
BB06993	696138, 696142, & 695984	WMWGASAP_1317
BB06994	696138, 696142, & 695984	WMWGASAP_1317
BB06995	696138, 696142, & 695984	WMWGASAP_1317
BB06996	696138, 696142, & 695984	WMWGASAP_1317
BB06997	696138, 696142, & 695984	WMWGASAP_1317
BB06998	696138, 696142, & 695984	WMWGASAP_1317
BB06999	696138, 696142, & 695984	WMWGASAP_1317

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.

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BB06637	Sulfate	8
BB06639	Sulfate	4
BB06641	Chloride & Sulfate	4 & 16
BB06642	Chloride & Sulfate	5 & 10
BB06643	Chloride & Sulfate	5 & 8
BB06644	Chloride & Sulfate	5 & 8
BB06645	Chloride & Sulfate	5 & 8
BB06914	Sulfate	40
BB06915	Sulfate	25
BB06916	Chloride & Sulfate	3 & 50

8. The raw data results are shown with dilution factors included.

Alkalinity

Gaston Ash Pond

WMWGASAP_1317

- 1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
- 2. Refer to comments on Chain of Custody for information regarding sample receipt.
- 3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB06216	695734 & 695735	WMWGASAP_1317
BB06217	695734 & 695735	WMWGASAP_1317
BB06218	695734 & 695735	WMWGASAP_1317
BB06219	695734 & 695735	WMWGASAP_1317
BB06220	695734 & 695735	WMWGASAP_1317
BB06221	695734 & 695735	WMWGASAP_1317
BB06515	695734 & 695735	WMWGASAP_1317
BB06516	695734 & 695735	WMWGASAP_1317
BB06517	695734 & 695735	WMWGASAP_1317
BB06518	695734 & 695735	WMWGASAP_1317
BB06519	695734 & 695735	WMWGASAP_1317
BB06521	695734 & 695735	WMWGASAP_1317
BB06522	695734 & 695735	WMWGASAP_1317
BB06523	695734 & 695735	WMWGASAP_1317
BB06524	695734 & 695735	WMWGASAP_1317
BB06622	695734 & 695735	WMWGASAP_1317
BB06623	695734 & 695735	WMWGASAP_1317
BB06624	695734 & 695735	WMWGASAP_1317
BB06625	695734 & 695735	WMWGASAP_1317
BB06627	695734 & 695735	WMWGASAP_1317
BB06628	696267 & 696268	WMWGASAP_1317
BB06629	696267 & 696268	WMWGASAP_1317
BB06630	696267 & 696268	WMWGASAP_1317
BB06631	696267 & 696268	WMWGASAP_1317
BB06632	696267 & 696268	WMWGASAP_1317
BB06633	696267 & 696268	WMWGASAP_1317
BB06634	696267 & 696268	WMWGASAP_1317
BB06635	696267 & 696268	WMWGASAP_1317
BB06636	696267 & 696268	WMWGASAP_1317
BB06637	696267 & 696268	WMWGASAP_1317
BB06638	696267 & 696268	WMWGASAP_1317

Case Narrative

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BB06639	696267 & 696268	WMWGASAP_1317
BB06640	696267 & 696268	WMWGASAP_1317
BB06641	696267 & 696268	WMWGASAP_1317
BB06642	696267 & 696268	WMWGASAP_1317
BB06643	696267 & 696268	WMWGASAP_1317
BB06644	696267 & 696268	WMWGASAP_1317
BB06645	696267 & 696268	WMWGASAP_1317
BB06911	696267 & 696268	WMWGASAP_1317
BB06912	696267 & 696268	WMWGASAP_1317
BB06914	696753 & 696754	WMWGASAP_1317
BB06915	696753 & 696754	WMWGASAP_1317
BB06916	696753 & 696754	WMWGASAP_1317
BB06993	696753 & 696754	WMWGASAP_1317
BB06994	696753 & 696754	WMWGASAP_1317
BB06995	696753 & 696754	WMWGASAP_1317
BB06996	696753 & 696754	WMWGASAP_1317
BB06997	696753 & 696754	WMWGASAP_1317
BB06998	696753 & 696754	WMWGASAP_1317

- All of the above samples were analyzed by Standard Method 2320B.
- All samples were analyzed within the established hold times.
- All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP
Collected: 3/30/21 07:47
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06216

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 09:59		1.015	0.399	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 13:21		10.15	60.5	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 09:59		1.015	0.0783	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 09:59		1.015	0.0700	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 09:59		1.015	25.9	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 13:21		10.15	60.9	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 10:55		1.015	0.0576	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 10:32		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 10:32		1.015	0.00460	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 10:32		1.015	0.0584	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 10:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 10:32		1.015	0.000277	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 10:32		1.015	0.0352	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 10:32		1.015	4.78	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 10:32		1.015	0.178	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 10:32		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 12:26		1.015	0.177	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/5/21 12:00	4/6/21 12:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	205	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/31/21 12:10	4/5/21 15:30		1	483	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-32V

Location Code: WMWASAP
Collected: 3/30/21 07:47
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06216

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	204	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	0.94	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/31/21 13:34	3/31/21 13:34		10	45.3	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/31/21 15:01	3/31/21 15:01		1	0.216	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/31/21 11:23	3/31/21 11:23		10	144	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/21 07:44	3/30/21 07:44			750.43	uS/cm			FA
pH	3/30/21 07:44	3/30/21 07:44			7.86	SU			FA
Temperature	3/30/21 07:44	3/30/21 07:44			18.68	C			FA
Turbidity	3/30/21 07:44	3/30/21 07:44			1.16	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 3/30/21 07:47

Customer ID:

Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BB06216

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB06517	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	13.8	13.8	5.09	4.25 to 5.75	101	70.0 to 130	0.125	20.0
BB06517	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.134	20.0
BB06517	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0959	0.0947	0.0892	0.0850 to 0.115	95.9	70.0 to 130	1.22	20.0
BB06517	Boron, Total	mg/L	0.00831	0.0650	1.00	2.41	2.44	0.988	0.850 to 1.15	97.3	70.0 to 130	1.23	20.0
BB06517	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0963	0.0982	0.0983	0.0850 to 0.115	95.5	70.0 to 130	1.96	20.0
BB06517	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.334	0.338	0.182	0.170 to 0.230	112	70.0 to 130	1.11	20.0
BB06517	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0960	0.0971	0.102	0.0850 to 0.115	96.0	70.0 to 130	1.10	20.0
BB06517	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0936	0.0945	0.0947	0.0850 to 0.115	93.6	70.0 to 130	0.946	20.0
BB06517	Iron, Total	mg/L	0.000335	0.0176	0.2	0.266	0.266	0.189	0.170 to 0.230	99.6	70.0 to 130	0.192	20.0
BB06517	Potassium, Total	mg/L	0.00454	0.367	10.0	22.7	23.1	9.88	8.50 to 11.5	92.9	70.0 to 130	1.72	20.0
BB06517	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.474	0.477	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.563	20.0
BB06517	Calcium, Total	mg/L	-0.00388	0.152	5.00	61.1	62.0	5.13	4.25 to 5.75	53.7	70.0 to 130	1.42	20.0
BB06517	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0946	0.0967	0.0978	0.0850 to 0.115	94.3	70.0 to 130	2.12	20.0
BB06517	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0931	0.0937	0.0927	0.0850 to 0.115	93.1	70.0 to 130	0.628	20.0
BB06517	Sodium, Total	mg/L	0.000726	0.0660	5.00	28.0	28.3	4.82	4.25 to 5.75	111	70.0 to 130	0.818	20.0
BB06517	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0980	0.0981	0.0977	0.0850 to 0.115	98.0	70.0 to 130	0.174	20.0
BB06517	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0953	0.0958	0.0932	0.0850 to 0.115	95.3	70.0 to 130	0.527	20.0
BB06517	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.603	0.596	0.0974	0.0850 to 0.115	94.4	70.0 to 130	1.20	20.0
BB06518	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	0.229	0.230	0.200	0.170 to 0.230	99.4	70.0 to 130	0.732	20.0
BB06518	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.119	0.117	0.104	0.0850 to 0.115	107	70.0 to 130	1.67	20.0
BB06222	Mercury, Total by CVAA	mg/L	0.0000360	0.000500	0.004	0.00413	0.00417	0.00382	0.00340 to 0.00460	103	70.0 to 130	0.964	20.0
BB06517	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.138	0.137	0.0935	0.0850 to 0.115	94.2	70.0 to 130	0.511	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 3/30/21 07:47
Customer ID:
Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BB06216

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06222	Fluoride	mg/L	0.0261	0.100	2.50	2.61	0.027	2.60	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06222	Sulfate	mg/L	-0.668	1.00	20.0	18.4	-0.652	18.6	18.0 to 22.0	92.0	80.0 to 120	0.00	20.0
BB06220	Solids, Dissolved	mg/L	-1.00	25.0			816	52.0	40.0 to 60.0			0.369	5.00
BB06222	Chloride	mg/L	-0.0301	1.00	10.0	9.99	0.0373	10.1	9.00 to 11.0	99.9	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 3/30/21 09:25
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06217

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:02		1.015	0.526	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 10:02		1.015	40.1	mg/L	0.070035	0.406	
* Iron, Total	4/13/21 13:00	4/15/21 10:02		1.015	0.0558	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 10:02		1.015	0.0615	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 10:02		1.015	19.2	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 10:02		1.015	18.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 10:58		1.015	0.0520	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 10:35		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 10:35		1.015	0.000664	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 10:35		1.015	0.0355	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 10:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 10:35		1.015	0.000245	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 10:35		1.015	0.227	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 10:35		1.015	2.82	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 10:35		1.015	0.00390	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 10:35		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 12:30		1.015	0.00411	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/5/21 12:00	4/6/21 12:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	101	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/31/21 12:10	4/5/21 15:30		1	262	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 3/30/21 09:25
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06217

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	99.6	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	1.70	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/31/21 13:28	3/31/21 13:28		1	13.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/31/21 15:02	3/31/21 15:02		1	0.169	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/31/21 11:24	3/31/21 11:24		8	97.3	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/21 09:21	3/30/21 09:21			406.08	uS/cm			FA
pH	3/30/21 09:21	3/30/21 09:21			8.04	SU			FA
Temperature	3/30/21 09:21	3/30/21 09:21			21.33	C			FA
Turbidity	3/30/21 09:21	3/30/21 09:21			3.31	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 3/30/21 09:25
Customer ID:
Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BB06217

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB06517	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	13.8	13.8	5.09	4.25 to 5.75	101	70.0 to 130	0.125	20.0
BB06517	Calcium, Total	mg/L	-0.00388	0.152	5.00	61.1	62.0	5.13	4.25 to 5.75	53.7	70.0 to 130	1.42	20.0
BB06517	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0946	0.0967	0.0978	0.0850 to 0.115	94.3	70.0 to 130	2.12	20.0
BB06517	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0931	0.0937	0.0927	0.0850 to 0.115	93.1	70.0 to 130	0.628	20.0
BB06222	Mercury, Total by CVAA	mg/L	0.0000360	0.000500	0.004	0.00413	0.00417	0.00382	0.00340 to 0.00460	103	70.0 to 130	0.964	20.0
BB06517	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.138	0.137	0.0935	0.0850 to 0.115	94.2	70.0 to 130	0.511	20.0
BB06517	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.134	20.0
BB06517	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0959	0.0947	0.0892	0.0850 to 0.115	95.9	70.0 to 130	1.22	20.0
BB06517	Boron, Total	mg/L	0.00831	0.0650	1.00	2.41	2.44	0.988	0.850 to 1.15	97.3	70.0 to 130	1.23	20.0
BB06517	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0963	0.0982	0.0983	0.0850 to 0.115	95.5	70.0 to 130	1.96	20.0
BB06517	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0936	0.0945	0.0947	0.0850 to 0.115	93.6	70.0 to 130	0.946	20.0
BB06517	Iron, Total	mg/L	0.000335	0.0176	0.2	0.266	0.266	0.189	0.170 to 0.230	99.6	70.0 to 130	0.192	20.0
BB06517	Potassium, Total	mg/L	0.00454	0.367	10.0	22.7	23.1	9.88	8.50 to 11.5	92.9	70.0 to 130	1.72	20.0
BB06517	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.474	0.477	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.563	20.0
BB06517	Sodium, Total	mg/L	0.000726	0.0660	5.00	28.0	28.3	4.82	4.25 to 5.75	111	70.0 to 130	0.818	20.0
BB06517	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0980	0.0981	0.0977	0.0850 to 0.115	98.0	70.0 to 130	0.174	20.0
BB06517	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0953	0.0958	0.0932	0.0850 to 0.115	95.3	70.0 to 130	0.527	20.0
BB06517	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.334	0.338	0.182	0.170 to 0.230	112	70.0 to 130	1.11	20.0
BB06517	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0960	0.0971	0.102	0.0850 to 0.115	96.0	70.0 to 130	1.10	20.0
BB06517	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.603	0.596	0.0974	0.0850 to 0.115	94.4	70.0 to 130	1.20	20.0
BB06518	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	0.229	0.230	0.200	0.170 to 0.230	99.4	70.0 to 130	0.732	20.0
BB06518	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.119	0.117	0.104	0.0850 to 0.115	107	70.0 to 130	1.67	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 3/30/21 09:25
Customer ID:
Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BB06217

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06222	Sulfate	mg/L	-0.668	1.00	20.0	18.4	-0.652	18.6	18.0 to 22.0	92.0	80.0 to 120	0.00	20.0
BB06222	Fluoride	mg/L	0.0261	0.100	2.50	2.61	0.027	2.60	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06220	Solids, Dissolved	mg/L	-1.00	25.0			816	52.0	40.0 to 60.0			0.369	5.00
BB06222	Chloride	mg/L	-0.0301	1.00	10.0	9.99	0.0373	10.1	9.00 to 11.0	99.9	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP
Collected: 3/30/21 11:00
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06218

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:06		1.015	0.208	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 10:06		1.015	33.7	mg/L	0.070035	0.406	
* Iron, Total	4/13/21 13:00	4/15/21 10:06		1.015	0.0411	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 10:06		1.015	0.0297	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 10:06		1.015	22.8	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 13:24		10.15	174	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:02		1.015	0.00968	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 10:39		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 10:39		1.015	0.00131	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 10:39		1.015	0.0792	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 10:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 10:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 10:39		1.015	0.000287	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 10:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 10:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 10:39		1.015	0.0663	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 10:39		1.015	61.8	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 10:39		1.015	0.0479	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 10:39		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 10:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 12:33		1.015	0.0494	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/5/21 12:00	4/6/21 12:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	243	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/31/21 12:10	4/5/21 15:30		1	767	mg/L		83.3	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP
Collected: 3/30/21 11:00
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06218

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	239	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	4.18	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/31/21 13:42	3/31/21 13:42		10	195	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/31/21 15:04	3/31/21 15:04		1	0.405	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/31/21 11:26	3/31/21 11:26		16	199	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/21 10:57	3/30/21 10:57			1433.95	uS/cm			FA
pH	3/30/21 10:57	3/30/21 10:57			8.11	SU			FA
Temperature	3/30/21 10:57	3/30/21 10:57			21.09	C			FA
Turbidity	3/30/21 10:57	3/30/21 10:57			1.13	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 3/30/21 11:00
Customer ID:
Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BB06218

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB06517	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	13.8	13.8	5.09	4.25 to 5.75	101	70.0 to 130	0.125	20.0
BB06222	Mercury, Total by CVAA	mg/L	0.0000360	0.000500	0.004	0.00413	0.00417	0.00382	0.00340 to 0.00460	103	70.0 to 130	0.964	20.0
BB06517	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.138	0.137	0.0935	0.0850 to 0.115	94.2	70.0 to 130	0.511	20.0
BB06517	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.334	0.338	0.182	0.170 to 0.230	112	70.0 to 130	1.11	20.0
BB06517	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0960	0.0971	0.102	0.0850 to 0.115	96.0	70.0 to 130	1.10	20.0
BB06517	Sodium, Total	mg/L	0.000726	0.0660	5.00	28.0	28.3	4.82	4.25 to 5.75	111	70.0 to 130	0.818	20.0
BB06517	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0980	0.0981	0.0977	0.0850 to 0.115	98.0	70.0 to 130	0.174	20.0
BB06517	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0953	0.0958	0.0932	0.0850 to 0.115	95.3	70.0 to 130	0.527	20.0
BB06517	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.134	20.0
BB06517	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0959	0.0947	0.0892	0.0850 to 0.115	95.9	70.0 to 130	1.22	20.0
BB06517	Boron, Total	mg/L	0.00831	0.0650	1.00	2.41	2.44	0.988	0.850 to 1.15	97.3	70.0 to 130	1.23	20.0
BB06517	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0963	0.0982	0.0983	0.0850 to 0.115	95.5	70.0 to 130	1.96	20.0
BB06517	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0936	0.0945	0.0947	0.0850 to 0.115	93.6	70.0 to 130	0.946	20.0
BB06517	Iron, Total	mg/L	0.000335	0.0176	0.2	0.266	0.266	0.189	0.170 to 0.230	99.6	70.0 to 130	0.192	20.0
BB06517	Potassium, Total	mg/L	0.00454	0.367	10.0	22.7	23.1	9.88	8.50 to 11.5	92.9	70.0 to 130	1.72	20.0
BB06517	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.474	0.477	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.563	20.0
BB06517	Calcium, Total	mg/L	-0.00388	0.152	5.00	61.1	62.0	5.13	4.25 to 5.75	53.7	70.0 to 130	1.42	20.0
BB06517	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0946	0.0967	0.0978	0.0850 to 0.115	94.3	70.0 to 130	2.12	20.0
BB06517	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0931	0.0937	0.0927	0.0850 to 0.115	93.1	70.0 to 130	0.628	20.0
BB06517	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.603	0.596	0.0974	0.0850 to 0.115	94.4	70.0 to 130	1.20	20.0
BB06518	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	0.229	0.230	0.200	0.170 to 0.230	99.4	70.0 to 130	0.732	20.0
BB06518	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.119	0.117	0.104	0.0850 to 0.115	107	70.0 to 130	1.67	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 3/30/21 11:00
Customer ID:
Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BB06218

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06222	Sulfate	mg/L	-0.668	1.00	20.0	18.4	-0.652	18.6	18.0 to 22.0	92.0	80.0 to 120	0.00	20.0
BB06222	Fluoride	mg/L	0.0261	0.100	2.50	2.61	0.027	2.60	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06220	Solids, Dissolved	mg/L	-1.00	25.0			816	52.0	40.0 to 60.0			0.369	5.00
BB06222	Chloride	mg/L	-0.0301	1.00	10.0	9.99	0.0373	10.1	9.00 to 11.0	99.9	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 3/30/21 12:27
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06219

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:09		1.015	0.231	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 13:28		10.15	45.8	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 10:09		1.015	0.0828	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 10:09		1.015	0.120	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 10:09		1.015	24.2	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 13:28		10.15	42.3	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:05		1.015	0.0219	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 10:42		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 10:42		1.015	0.00882	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 10:42		1.015	0.0593	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 10:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 10:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 10:42		1.015	0.000264	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 10:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 10:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 10:42		1.015	0.0174	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 10:42		1.015	5.83	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 10:42		1.015	0.125	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 10:42		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 10:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	4/16/21 08:30	4/16/21 12:37		1.015	0.141	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	4/5/21 12:00	4/6/21 12:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	289	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/31/21 12:10	4/5/21 15:30		1	329	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 3/30/21 12:27
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06219

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	286	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	3.38	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/31/21 13:37	3/31/21 13:37		2	27.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/31/21 15:05	3/31/21 15:05		1	0.290	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/31/21 11:27	3/31/21 11:27		1	17.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/21 12:24	3/30/21 12:24			579.01	uS/cm			FA
pH	3/30/21 12:24	3/30/21 12:24			7.82	SU			FA
Temperature	3/30/21 12:24	3/30/21 12:24			22.06	C			FA
Turbidity	3/30/21 12:24	3/30/21 12:24			2.41	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 3/30/21 12:27

Customer ID:

Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BB06219

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB06517	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	13.8	13.8	5.09	4.25 to 5.75	101	70.0 to 130	0.125	20.0
BB06517	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.134	20.0
BB06517	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0959	0.0947	0.0892	0.0850 to 0.115	95.9	70.0 to 130	1.22	20.0
BB06517	Boron, Total	mg/L	0.00831	0.0650	1.00	2.41	2.44	0.988	0.850 to 1.15	97.3	70.0 to 130	1.23	20.0
BB06517	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0963	0.0982	0.0983	0.0850 to 0.115	95.5	70.0 to 130	1.96	20.0
BB06517	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0936	0.0945	0.0947	0.0850 to 0.115	93.6	70.0 to 130	0.946	20.0
BB06517	Iron, Total	mg/L	0.000335	0.0176	0.2	0.266	0.266	0.189	0.170 to 0.230	99.6	70.0 to 130	0.192	20.0
BB06517	Potassium, Total	mg/L	0.00454	0.367	10.0	22.7	23.1	9.88	8.50 to 11.5	92.9	70.0 to 130	1.72	20.0
BB06517	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.474	0.477	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.563	20.0
BB06222	Mercury, Total by CVAA	mg/L	0.0000360	0.000500	0.004	0.00413	0.00417	0.00382	0.00340 to 0.00460	103	70.0 to 130	0.964	20.0
BB06517	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.138	0.137	0.0935	0.0850 to 0.115	94.2	70.0 to 130	0.511	20.0
BB06517	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.603	0.596	0.0974	0.0850 to 0.115	94.4	70.0 to 130	1.20	20.0
BB06518	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	0.229	0.230	0.200	0.170 to 0.230	99.4	70.0 to 130	0.732	20.0
BB06518	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.119	0.117	0.104	0.0850 to 0.115	107	70.0 to 130	1.67	20.0
BB06517	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.334	0.338	0.182	0.170 to 0.230	112	70.0 to 130	1.11	20.0
BB06517	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0960	0.0971	0.102	0.0850 to 0.115	96.0	70.0 to 130	1.10	20.0
BB06517	Sodium, Total	mg/L	0.000726	0.0660	5.00	28.0	28.3	4.82	4.25 to 5.75	111	70.0 to 130	0.818	20.0
BB06517	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0980	0.0981	0.0977	0.0850 to 0.115	98.0	70.0 to 130	0.174	20.0
BB06517	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0953	0.0958	0.0932	0.0850 to 0.115	95.3	70.0 to 130	0.527	20.0
BB06517	Calcium, Total	mg/L	-0.00388	0.152	5.00	61.1	62.0	5.13	4.25 to 5.75	53.7	70.0 to 130	1.42	20.0
BB06517	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0946	0.0967	0.0978	0.0850 to 0.115	94.3	70.0 to 130	2.12	20.0
BB06517	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0931	0.0937	0.0927	0.0850 to 0.115	93.1	70.0 to 130	0.628	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 3/30/21 12:27
Customer ID:
Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BB06219

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06222	Sulfate	mg/L	-0.668	1.00	20.0	18.4	-0.652	18.6	18.0 to 22.0	92.0	80.0 to 120	0.00	20.0
BB06222	Fluoride	mg/L	0.0261	0.100	2.50	2.61	0.027	2.60	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB06220	Solids, Dissolved	mg/L	-1.00	25.0			816	52.0	40.0 to 60.0			0.369	5.00
BB06222	Chloride	mg/L	-0.0301	1.00	10.0	9.99	0.0373	10.1	9.00 to 11.0	99.9	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 3/30/21 14:02
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06220

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:13		1.015	2.85	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 13:31		10.15	122	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 10:13		1.015	0.305	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 10:13		1.015	0.0396	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 13:31		10.15	61.3	mg/L	0.21315	4.06	
* Sodium, Total	4/13/21 13:00	4/15/21 10:13		1.015	34.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:08		1.015	0.286	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 10:46		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 10:46		1.015	0.00303	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 10:46		1.015	0.0392	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 10:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 10:46		1.015	0.000281	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 10:46		1.015	0.273	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 10:46		1.015	0.500	mg/L	0.169505	0.5075	J
* Manganese, Total	4/14/21 13:48	4/16/21 10:46		1.015	0.0834	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 10:46		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 12:41		1.015	0.0867	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/5/21 12:00	4/6/21 12:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	95.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/31/21 12:10	4/5/21 15:30		1	810	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 3/30/21 14:02
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06220

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	94.3	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	0.97	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/31/21 13:32	3/31/21 13:32		1	19.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/31/21 15:06	3/31/21 15:06		1	0.106	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/31/21 11:28	3/31/21 11:28		25	452	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/21 13:59	3/30/21 13:59			1043.27	uS/cm			FA
pH	3/30/21 13:59	3/30/21 13:59			7.88	SU			FA
Temperature	3/30/21 13:59	3/30/21 13:59			20.96	C			FA
Turbidity	3/30/21 13:59	3/30/21 13:59			0.68	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 3/30/21 14:02

Customer ID:

Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BB06220

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06517	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	13.8	13.8	5.09	4.25 to 5.75	101	70.0 to 130	0.125	20.0
BB06222	Mercury, Total by CVAA	mg/L	0.0000360	0.000500	0.004	0.00413	0.00417	0.00382	0.00340 to 0.00460	103	70.0 to 130	0.964	20.0
BB06517	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.138	0.137	0.0935	0.0850 to 0.115	94.2	70.0 to 130	0.511	20.0
BB06517	Calcium, Total	mg/L	-0.00388	0.152	5.00	61.1	62.0	5.13	4.25 to 5.75	53.7	70.0 to 130	1.42	20.0
BB06517	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0946	0.0967	0.0978	0.0850 to 0.115	94.3	70.0 to 130	2.12	20.0
BB06517	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0931	0.0937	0.0927	0.0850 to 0.115	93.1	70.0 to 130	0.628	20.0
BB06517	Sodium, Total	mg/L	0.000726	0.0660	5.00	28.0	28.3	4.82	4.25 to 5.75	111	70.0 to 130	0.818	20.0
BB06517	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0980	0.0981	0.0977	0.0850 to 0.115	98.0	70.0 to 130	0.174	20.0
BB06517	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0953	0.0958	0.0932	0.0850 to 0.115	95.3	70.0 to 130	0.527	20.0
BB06517	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.334	0.338	0.182	0.170 to 0.230	112	70.0 to 130	1.11	20.0
BB06517	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0960	0.0971	0.102	0.0850 to 0.115	96.0	70.0 to 130	1.10	20.0
BB06517	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0936	0.0945	0.0947	0.0850 to 0.115	93.6	70.0 to 130	0.946	20.0
BB06517	Iron, Total	mg/L	0.000335	0.0176	0.2	0.266	0.266	0.189	0.170 to 0.230	99.6	70.0 to 130	0.192	20.0
BB06517	Potassium, Total	mg/L	0.00454	0.367	10.0	22.7	23.1	9.88	8.50 to 11.5	92.9	70.0 to 130	1.72	20.0
BB06517	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.474	0.477	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.563	20.0
BB06517	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.134	20.0
BB06517	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0959	0.0947	0.0892	0.0850 to 0.115	95.9	70.0 to 130	1.22	20.0
BB06517	Boron, Total	mg/L	0.00831	0.0650	1.00	2.41	2.44	0.988	0.850 to 1.15	97.3	70.0 to 130	1.23	20.0
BB06517	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0963	0.0982	0.0983	0.0850 to 0.115	95.5	70.0 to 130	1.96	20.0
BB06517	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.603	0.596	0.0974	0.0850 to 0.115	94.4	70.0 to 130	1.20	20.0
BB06518	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	0.229	0.230	0.200	0.170 to 0.230	99.4	70.0 to 130	0.732	20.0
BB06518	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.119	0.117	0.104	0.0850 to 0.115	107	70.0 to 130	1.67	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 3/30/21 14:02
Customer ID:
Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BB06220

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06222	Sulfate	mg/L	-0.668	1.00	20.0	18.4	-0.652	18.6	18.0 to 22.0	92.0	80.0 to 120	0.00	20.0
BB06222	Fluoride	mg/L	0.0261	0.100	2.50	2.61	0.027	2.60	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06220	Solids, Dissolved	mg/L	-1.00	25.0			816	52.0	40.0 to 60.0			0.369	5.00
BB06222	Chloride	mg/L	-0.0301	1.00	10.0	9.99	0.0373	10.1	9.00 to 11.0	99.9	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP
Collected: 3/30/21 15:52
Customer ID:
Submission Date: 3/31/21 09:24

Laboratory ID Number: BB06221

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:16		1.015	0.143	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 10:16		1.015	38.8	mg/L	0.070035	0.406	
* Iron, Total	4/13/21 13:00	4/15/21 10:16		1.015	0.737	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 10:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 10:16		1.015	23.4	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 10:16		1.015	29.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:12		1.015	0.654	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 10:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 10:50		1.015	0.00223	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 10:50		1.015	0.0184	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 10:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 10:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 10:50		1.015	0.000237	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 10:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 10:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 10:50		1.015	0.0205	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 10:50		1.015	0.760	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 10:50		1.015	0.0640	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 10:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 10:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 12:45		1.015	0.0708	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/5/21 12:00	4/6/21 12:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	232	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/31/21 12:10	4/5/21 15:30		1	252	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP
Collected: 3/30/21 15:52
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06221

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	230	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	2.02	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/31/21 13:33	3/31/21 13:33		1	11.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/31/21 15:07	3/31/21 15:07		1	0.187	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/31/21 11:29	3/31/21 11:29		1	39.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/21 15:48	3/30/21 15:48			433.14	uS/cm			FA
pH	3/30/21 15:48	3/30/21 15:48			7.91	SU			FA
Temperature	3/30/21 15:48	3/30/21 15:48			21.59	C			FA
Turbidity	3/30/21 15:48	3/30/21 15:48			2.09	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 3/30/21 15:52

Customer ID:

Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BB06221

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06517	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	13.8	13.8	5.09	4.25 to 5.75	101	70.0 to 130	0.125	20.0
BB06222	Mercury, Total by CVAA	mg/L	0.0000360	0.000500	0.004	0.00413	0.00417	0.00382	0.00340 to 0.00460	103	70.0 to 130	0.964	20.0
BB06517	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.138	0.137	0.0935	0.0850 to 0.115	94.2	70.0 to 130	0.511	20.0
BB06517	Sodium, Total	mg/L	0.000726	0.0660	5.00	28.0	28.3	4.82	4.25 to 5.75	111	70.0 to 130	0.818	20.0
BB06517	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0980	0.0981	0.0977	0.0850 to 0.115	98.0	70.0 to 130	0.174	20.0
BB06517	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0953	0.0958	0.0932	0.0850 to 0.115	95.3	70.0 to 130	0.527	20.0
BB06517	Calcium, Total	mg/L	-0.00388	0.152	5.00	61.1	62.0	5.13	4.25 to 5.75	53.7	70.0 to 130	1.42	20.0
BB06517	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0946	0.0967	0.0978	0.0850 to 0.115	94.3	70.0 to 130	2.12	20.0
BB06517	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0931	0.0937	0.0927	0.0850 to 0.115	93.1	70.0 to 130	0.628	20.0
BB06517	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0936	0.0945	0.0947	0.0850 to 0.115	93.6	70.0 to 130	0.946	20.0
BB06517	Iron, Total	mg/L	0.000335	0.0176	0.2	0.266	0.266	0.189	0.170 to 0.230	99.6	70.0 to 130	0.192	20.0
BB06517	Potassium, Total	mg/L	0.00454	0.367	10.0	22.7	23.1	9.88	8.50 to 11.5	92.9	70.0 to 130	1.72	20.0
BB06517	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.474	0.477	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.563	20.0
BB06517	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.134	20.0
BB06517	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0959	0.0947	0.0892	0.0850 to 0.115	95.9	70.0 to 130	1.22	20.0
BB06517	Boron, Total	mg/L	0.00831	0.0650	1.00	2.41	2.44	0.988	0.850 to 1.15	97.3	70.0 to 130	1.23	20.0
BB06517	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0963	0.0982	0.0983	0.0850 to 0.115	95.5	70.0 to 130	1.96	20.0
BB06517	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.334	0.338	0.182	0.170 to 0.230	112	70.0 to 130	1.11	20.0
BB06517	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0960	0.0971	0.102	0.0850 to 0.115	96.0	70.0 to 130	1.10	20.0
BB06517	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.603	0.596	0.0974	0.0850 to 0.115	94.4	70.0 to 130	1.20	20.0
BB06518	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	0.229	0.230	0.200	0.170 to 0.230	99.4	70.0 to 130	0.732	20.0
BB06518	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.119	0.117	0.104	0.0850 to 0.115	107	70.0 to 130	1.67	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 3/30/21 15:52
Customer ID:
Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BB06221

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06222	Sulfate	mg/L	-0.668	1.00	20.0	18.4	-0.652	18.6	18.0 to 22.0	92.0	80.0 to 120	0.00	20.0
BB06222	Fluoride	mg/L	0.0261	0.100	2.50	2.61	0.027	2.60	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06220	Solids, Dissolved	mg/L	-1.00	25.0			816	52.0	40.0 to 60.0			0.369	5.00
BB06222	Chloride	mg/L	-0.0301	1.00	10.0	9.99	0.0373	10.1	9.00 to 11.0	99.9	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-1

Location Code: WMWGASAPFB
Collected: 3/30/21 16:35
Customer ID:
Submittal Date: 3/31/21 09:24

Laboratory ID Number: BB06222

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:19		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/13/21 13:00	4/15/21 10:19		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/13/21 13:00	4/15/21 10:19		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/13/21 13:00	4/15/21 10:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 10:19		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	4/13/21 13:00	4/15/21 10:19		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 10:53		1.015	0.000273	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/5/21 12:00	4/6/21 12:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/31/21 12:10	4/5/21 15:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/31/21 13:38	3/31/21 13:38		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/31/21 15:08	3/31/21 15:08		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/31/21 11:30	3/31/21 11:30		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB
Sample Date: 3/30/21 16:35
Customer ID:
Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BB06222

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06517	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	13.8	13.8	5.09	4.25 to 5.75	101	70.0 to 130	0.125	20.0
BB06517	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.603	0.596	0.0974	0.0850 to 0.115	94.4	70.0 to 130	1.20	20.0
BB06517	Calcium, Total	mg/L	-0.00388	0.152	5.00	61.1	62.0	5.13	4.25 to 5.75	53.7	70.0 to 130	1.42	20.0
BB06517	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0946	0.0967	0.0978	0.0850 to 0.115	94.3	70.0 to 130	2.12	20.0
BB06517	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0931	0.0937	0.0927	0.0850 to 0.115	93.1	70.0 to 130	0.628	20.0
BB06517	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.334	0.338	0.182	0.170 to 0.230	112	70.0 to 130	1.11	20.0
BB06517	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0960	0.0971	0.102	0.0850 to 0.115	96.0	70.0 to 130	1.10	20.0
BB06517	Sodium, Total	mg/L	0.000726	0.0660	5.00	28.0	28.3	4.82	4.25 to 5.75	111	70.0 to 130	0.818	20.0
BB06517	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0980	0.0981	0.0977	0.0850 to 0.115	98.0	70.0 to 130	0.174	20.0
BB06517	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0953	0.0958	0.0932	0.0850 to 0.115	95.3	70.0 to 130	0.527	20.0
BB06517	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0936	0.0945	0.0947	0.0850 to 0.115	93.6	70.0 to 130	0.946	20.0
BB06517	Iron, Total	mg/L	0.000335	0.0176	0.2	0.266	0.266	0.189	0.170 to 0.230	99.6	70.0 to 130	0.192	20.0
BB06517	Potassium, Total	mg/L	0.00454	0.367	10.0	22.7	23.1	9.88	8.50 to 11.5	92.9	70.0 to 130	1.72	20.0
BB06517	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.474	0.477	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.563	20.0
BB06517	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.134	20.0
BB06517	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0959	0.0947	0.0892	0.0850 to 0.115	95.9	70.0 to 130	1.22	20.0
BB06517	Boron, Total	mg/L	0.00831	0.0650	1.00	2.41	2.44	0.988	0.850 to 1.15	97.3	70.0 to 130	1.23	20.0
BB06517	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0963	0.0982	0.0983	0.0850 to 0.115	95.5	70.0 to 130	1.96	20.0
BB06222	Mercury, Total by CVAA	mg/L	0.0000360	0.000500	0.004	0.00413	0.00417	0.00382	0.00340 to 0.00460	103	70.0 to 130	0.964	20.0
BB06517	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.138	0.137	0.0935	0.0850 to 0.115	94.2	70.0 to 130	0.511	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 3/30/21 16:35

Customer ID:

Delivery Date: 3/31/21 09:24

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BB06222

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB06222	Sulfate	mg/L	-0.668	1.00	20.0	18.4	-0.652	18.6	18.0 to 22.0	92.0	80.0 to 120	0.00	20.0
BB06222	Fluoride	mg/L	0.0261	0.100	2.50	2.61	0.027	2.60	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB06220	Solids, Dissolved	mg/L	-1.00	25.0			816	52.0	40.0 to 60.0			0.369	5.00
BB06222	Chloride	mg/L	-0.0301	1.00	10.0	9.99	0.0373	10.1	9.00 to 11.0	99.9	80.0 to 120	0.00	20.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP
Collected: 4/5/21 12:03
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06515

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:23		1.015	1.39	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 10:23		1.015	40.4	mg/L	0.070035	0.406	
* Iron, Total	4/13/21 13:00	4/15/21 10:23		1.015	0.0201	mg/L	0.008120	0.0406	J
* Lithium, Total	4/13/21 13:00	4/15/21 10:23		1.015	0.319	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 10:23		1.015	12.2	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 10:23		1.015	22.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:15		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 10:57		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 10:57		1.015	0.00117	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 10:57		1.015	0.0482	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 10:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 10:57		1.015	0.0000825	mg/L	0.000068	0.000203	J
* Chromium, Total	4/14/21 13:48	4/16/21 10:57		1.015	0.000440	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 10:57		1.015	0.000888	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 10:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 10:57		1.015	0.614	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 10:57		1.015	16.3	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 10:57		1.015	0.0114	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 10:57		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 10:57		1.015	0.000465	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 12:49		1.015	0.0120	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	27.6	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/7/21 11:50	4/9/21 08:15		1	289	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP

Collected: 4/5/21 12:03

Customer ID:

Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06515

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	26.6	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	0.83	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/7/21 12:26	4/7/21 12:26		1	19.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/7/21 15:07	4/7/21 15:07		1	0.136	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 09:58	4/13/21 09:58		8	150	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/5/21 12:00	4/5/21 12:00			449.19	uS/cm			FA
pH	4/5/21 12:00	4/5/21 12:00			8.54	SU			FA
Temperature	4/5/21 12:00	4/5/21 12:00			20.56	C			FA
Turbidity	4/5/21 12:00	4/5/21 12:00			2.13	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/5/21 12:03
Customer ID:
Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BB06515

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB06517	Barium, Total	mg/L	0.000256	0.000200	0.10	0.138	0.137	0.0935	0.0850 to 0.115	94.2	70.0 to 130	0.511	20.0
BB06517	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	13.8	13.8	5.09	4.25 to 5.75	101	70.0 to 130	0.125	20.0
BB06517	Lithium, Total	mg/L	0.000233	0.0154	0.20	0.334	0.338	0.182	0.170 to 0.230	112	70.0 to 130	1.11	20.0
BB06517	Selenium, Total	mg/L	0.000259	0.00100	0.10	0.0960	0.0971	0.102	0.0850 to 0.115	96.0	70.0 to 130	1.10	20.0
BB06517	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0936	0.0945	0.0947	0.0850 to 0.115	93.6	70.0 to 130	0.946	20.0
BB06517	Iron, Total	mg/L	0.000335	0.0176	0.2	0.266	0.266	0.189	0.170 to 0.230	99.6	70.0 to 130	0.192	20.0
BB06517	Potassium, Total	mg/L	0.00454	0.367	10.0	22.7	23.1	9.88	8.50 to 11.5	92.9	70.0 to 130	1.72	20.0
BB06517	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.474	0.477	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.563	20.0
BB06517	Sodium, Total	mg/L	0.000726	0.0660	5.00	28.0	28.3	4.82	4.25 to 5.75	111	70.0 to 130	0.818	20.0
BB06517	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0980	0.0981	0.0977	0.0850 to 0.115	98.0	70.0 to 130	0.174	20.0
BB06517	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0953	0.0958	0.0932	0.0850 to 0.115	95.3	70.0 to 130	0.527	20.0
BB06517	Calcium, Total	mg/L	-0.00388	0.152	5.00	61.1	62.0	5.13	4.25 to 5.75	53.7	70.0 to 130	1.42	20.0
BB06517	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0946	0.0967	0.0978	0.0850 to 0.115	94.3	70.0 to 130	2.12	20.0
BB06517	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0931	0.0937	0.0927	0.0850 to 0.115	93.1	70.0 to 130	0.628	20.0
BB06517	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.134	20.0
BB06517	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0959	0.0947	0.0892	0.0850 to 0.115	95.9	70.0 to 130	1.22	20.0
BB06517	Boron, Total	mg/L	0.00831	0.0650	1.00	2.41	2.44	0.988	0.850 to 1.15	97.3	70.0 to 130	1.23	20.0
BB06517	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0963	0.0982	0.0983	0.0850 to 0.115	95.5	70.0 to 130	1.96	20.0
BB06524	Mercury, Total by CVAA	mg/L	0.0000247	0.000500	0.004	0.00369	0.00376	0.00415	0.00340 to 0.00460	92.2	70.0 to 130	1.88	20.0
BB06517	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.603	0.596	0.0974	0.0850 to 0.115	94.4	70.0 to 130	1.20	20.0
BB06518	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	0.229	0.230	0.200	0.170 to 0.230	99.4	70.0 to 130	0.732	20.0
BB06518	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.119	0.117	0.104	0.0850 to 0.115	107	70.0 to 130	1.67	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 12:03

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BB06515

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06524	Sulfate	mg/L	-0.384	1.00	400	546	180	18.6	18.0 to 22.0	91.2	80.0 to 120	0.554	20.0
BB06524	Solids, Dissolved	mg/L	-1.00	25.0			606	55.0	40.0 to 60.0			0.832	5.00
BB06524	Chloride	mg/L	0.0234	1.00	10.0	22.0	12.5	9.99	9.00 to 11.0	96.0	80.0 to 120	0.803	20.0
BB06524	Fluoride	mg/L	0.0356	0.100	2.50	2.70	0.0687	2.59	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP
Collected: 4/5/21 13:30
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06516

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:26		1.015	1.43	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 13:34		10.15	57.6	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 10:26		1.015	0.0611	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 10:26		1.015	0.111	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 10:26		1.015	8.70	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 10:26		1.015	22.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:18		1.015	0.0584	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:00		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 11:00		1.015	0.00452	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 11:00		1.015	0.0421	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 11:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:00		1.015	0.0000999	mg/L	0.000068	0.000203	J
* Chromium, Total	4/14/21 13:48	4/16/21 11:00		1.015	0.000319	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:00		1.015	0.000679	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 11:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 11:00		1.015	0.514	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 11:00		1.015	13.0	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 11:00		1.015	0.374	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 11:00		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 12:52		1.015	0.451	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	32.6	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/7/21 11:50	4/9/21 08:15		1	333	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP
Collected: 4/5/21 13:30
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06516

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	32.2	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	0.34	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/7/21 12:27	4/7/21 12:27		1	19.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/7/21 15:08	4/7/21 15:08		1	0.159	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:00	4/13/21 10:00		10	172	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/5/21 13:27	4/5/21 13:27			490.95	uS/cm			FA
pH	4/5/21 13:27	4/5/21 13:27			7.76	SU			FA
Temperature	4/5/21 13:27	4/5/21 13:27			21.56	C			FA
Turbidity	4/5/21 13:27	4/5/21 13:27			1.22	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/5/21 13:30
Customer ID:
Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BB06516

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06517	Barium, Total	mg/L	0.000256	0.000200	0.10	0.138	0.137	0.0935	0.0850 to 0.115	94.2	70.0 to 130	0.511	20.0
BB06517	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	13.8	13.8	5.09	4.25 to 5.75	101	70.0 to 130	0.125	20.0
BB06517	Calcium, Total	mg/L	-0.00388	0.152	5.00	61.1	62.0	5.13	4.25 to 5.75	53.7	70.0 to 130	1.42	20.0
BB06517	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0946	0.0967	0.0978	0.0850 to 0.115	94.3	70.0 to 130	2.12	20.0
BB06517	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0931	0.0937	0.0927	0.0850 to 0.115	93.1	70.0 to 130	0.628	20.0
BB06517	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.334	0.338	0.182	0.170 to 0.230	112	70.0 to 130	1.11	20.0
BB06517	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0960	0.0971	0.102	0.0850 to 0.115	96.0	70.0 to 130	1.10	20.0
BB06517	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.134	20.0
BB06517	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0959	0.0947	0.0892	0.0850 to 0.115	95.9	70.0 to 130	1.22	20.0
BB06517	Boron, Total	mg/L	0.00831	0.0650	1.00	2.41	2.44	0.988	0.850 to 1.15	97.3	70.0 to 130	1.23	20.0
BB06517	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0963	0.0982	0.0983	0.0850 to 0.115	95.5	70.0 to 130	1.96	20.0
BB06524	Mercury, Total by CVAA	mg/L	0.0000247	0.000500	0.004	0.00369	0.00376	0.00415	0.00340 to 0.00460	92.2	70.0 to 130	1.88	20.0
BB06517	Sodium, Total	mg/L	0.000726	0.0660	5.00	28.0	28.3	4.82	4.25 to 5.75	111	70.0 to 130	0.818	20.0
BB06517	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0980	0.0981	0.0977	0.0850 to 0.115	98.0	70.0 to 130	0.174	20.0
BB06517	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0953	0.0958	0.0932	0.0850 to 0.115	95.3	70.0 to 130	0.527	20.0
BB06517	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0936	0.0945	0.0947	0.0850 to 0.115	93.6	70.0 to 130	0.946	20.0
BB06517	Iron, Total	mg/L	0.000335	0.0176	0.2	0.266	0.266	0.189	0.170 to 0.230	99.6	70.0 to 130	0.192	20.0
BB06517	Potassium, Total	mg/L	0.00454	0.367	10.0	22.7	23.1	9.88	8.50 to 11.5	92.9	70.0 to 130	1.72	20.0
BB06517	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.474	0.477	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.563	20.0
BB06517	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.603	0.596	0.0974	0.0850 to 0.115	94.4	70.0 to 130	1.20	20.0
BB06518	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	0.229	0.230	0.200	0.170 to 0.230	99.4	70.0 to 130	0.732	20.0
BB06518	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.119	0.117	0.104	0.0850 to 0.115	107	70.0 to 130	1.67	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 13:30

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BB06516

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB06524	Solids, Dissolved	mg/L	-1.00	25.0			606	55.0	40.0 to 60.0			0.832	5.00
BB06524	Chloride	mg/L	0.0234	1.00	10.0	22.0	12.5	9.99	9.00 to 11.0	96.0	80.0 to 120	0.803	20.0
BB06524	Sulfate	mg/L	-0.384	1.00	400	546	180	18.6	18.0 to 22.0	91.2	80.0 to 120	0.554	20.0
BB06524	Fluoride	mg/L	0.0356	0.100	2.50	2.70	0.0687	2.59	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16 DUP

Location Code: WMWGASAP
Collected: 4/5/21 13:30
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06517

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:29		1.015	1.44	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 13:38		10.15	58.4	mg/L	0.70035	4.06	RA
* Iron, Total	4/13/21 13:00	4/15/21 10:29		1.015	0.0669	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 10:29		1.015	0.111	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 10:29		1.015	8.79	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 10:29		1.015	22.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:22		1.015	0.0614	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:04		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 11:04		1.015	0.00493	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 11:04		1.015	0.0436	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 11:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 11:04		1.015	0.000340	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:04		1.015	0.000702	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 11:04		1.015	0.509	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 11:04		1.015	13.4	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 11:04		1.015	0.382	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 11:04		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 12:56		1.015	0.473	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	29.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/7/21 11:50	4/9/21 08:15		1	335	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16 DUP

Location Code: WMWGASAP
Collected: 4/5/21 13:30
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06517

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	29.5	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	0.32	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/7/21 12:28	4/7/21 12:28		1	19.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/7/21 15:09	4/7/21 15:09		1	0.154	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:01	4/13/21 10:01		10	182	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/5/21 13:27	4/5/21 13:27			490.95	uS/cm			FA
pH	4/5/21 13:27	4/5/21 13:27			7.76	SU			FA
Temperature	4/5/21 13:27	4/5/21 13:27			21.56	C			FA
Turbidity	4/5/21 13:27	4/5/21 13:27			1.22	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 13:30

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-16 DUP

Laboratory ID Number: BB06517

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06517	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	13.8	13.8	5.09	4.25 to 5.75	101	70.0 to 130	0.125	20.0
BB06517	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.138	0.137	0.0935	0.0850 to 0.115	94.2	70.0 to 130	0.511	20.0
BB06517	Sodium, Total	mg/L	0.000726	0.0660	5.00	28.0	28.3	4.82	4.25 to 5.75	111	70.0 to 130	0.818	20.0
BB06517	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0980	0.0981	0.0977	0.0850 to 0.115	98.0	70.0 to 130	0.174	20.0
BB06517	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0953	0.0958	0.0932	0.0850 to 0.115	95.3	70.0 to 130	0.527	20.0
BB06517	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.334	0.338	0.182	0.170 to 0.230	112	70.0 to 130	1.11	20.0
BB06517	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0960	0.0971	0.102	0.0850 to 0.115	96.0	70.0 to 130	1.10	20.0
BB06517	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.108	0.108	0.104	0.0850 to 0.115	103	70.0 to 130	0.134	20.0
BB06517	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0959	0.0947	0.0892	0.0850 to 0.115	95.9	70.0 to 130	1.22	20.0
BB06517	Boron, Total	mg/L	0.00831	0.0650	1.00	2.41	2.44	0.988	0.850 to 1.15	97.3	70.0 to 130	1.23	20.0
BB06517	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0963	0.0982	0.0983	0.0850 to 0.115	95.5	70.0 to 130	1.96	20.0
BB06524	Mercury, Total by CVAA	mg/L	0.0000247	0.000500	0.004	0.00369	0.00376	0.00415	0.00340 to 0.00460	92.2	70.0 to 130	1.88	20.0
BB06517	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0936	0.0945	0.0947	0.0850 to 0.115	93.6	70.0 to 130	0.946	20.0
BB06517	Iron, Total	mg/L	0.000335	0.0176	0.2	0.266	0.266	0.189	0.170 to 0.230	99.6	70.0 to 130	0.192	20.0
BB06517	Potassium, Total	mg/L	0.00454	0.367	10.0	22.7	23.1	9.88	8.50 to 11.5	92.9	70.0 to 130	1.72	20.0
BB06517	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.474	0.477	0.102	0.0850 to 0.115	92.3	70.0 to 130	0.563	20.0
BB06517	Calcium, Total	mg/L	-0.00388	0.152	5.00	61.1	62.0	5.13	4.25 to 5.75	53.7	70.0 to 130	1.42	20.0
BB06517	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0946	0.0967	0.0978	0.0850 to 0.115	94.3	70.0 to 130	2.12	20.0
BB06517	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0931	0.0937	0.0927	0.0850 to 0.115	93.1	70.0 to 130	0.628	20.0
BB06517	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.603	0.596	0.0974	0.0850 to 0.115	94.4	70.0 to 130	1.20	20.0
BB06518	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	0.229	0.230	0.200	0.170 to 0.230	99.4	70.0 to 130	0.732	20.0
BB06518	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.119	0.117	0.104	0.0850 to 0.115	107	70.0 to 130	1.67	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 13:30

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-16 DUP

Laboratory ID Number: BB06517

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB06524	Solids, Dissolved	mg/L	-1.00	25.0			606	55.0	40.0 to 60.0			0.832	5.00
BB06524	Chloride	mg/L	0.0234	1.00	10.0	22.0	12.5	9.99	9.00 to 11.0	96.0	80.0 to 120	0.803	20.0
BB06524	Sulfate	mg/L	-0.384	1.00	400	546	180	18.6	18.0 to 22.0	91.2	80.0 to 120	0.554	20.0
BB06524	Fluoride	mg/L	0.0356	0.100	2.50	2.70	0.0687	2.59	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP

Collected: 4/5/21 15:10

Customer ID:

Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06518

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:46		1.015	0.796	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 10:46		1.015	39.9	mg/L	0.070035	0.406	
* Iron, Total	4/13/21 13:00	4/15/21 10:46		1.015	0.0557	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 10:46		1.015	0.148	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 10:46		1.015	17.2	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 10:46		1.015	19.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:25		1.015	0.0300	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:25		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 11:25		1.015	0.00321	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 11:25		1.015	0.0309	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 11:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 11:25		1.015	0.000648	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:25		1.015	0.000304	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 11:25		1.015	0.000129	mg/L	0.000068	0.000203	J
* Molybdenum, Total	4/14/21 13:48	4/16/21 11:25		1.015	0.471	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 11:25		1.015	10.5	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 11:25		1.015	0.0125	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 11:25		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:25		1.015	0.000149	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:00		1.015	0.0125	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	65.5	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/7/21 11:50	4/9/21 08:15		1	287	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP
Collected: 4/5/21 15:10
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06518

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	64.1	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	1.29	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/7/21 12:29	4/7/21 12:29		1	17.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/7/21 15:11	4/7/21 15:11		1	0.0933	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:02	4/13/21 10:02		8	133	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/5/21 15:06	4/5/21 15:06			431.65	uS/cm			FA
pH	4/5/21 15:06	4/5/21 15:06			7.91	SU			FA
Temperature	4/5/21 15:06	4/5/21 15:06			21.22	C			FA
Turbidity	4/5/21 15:06	4/5/21 15:06			4.02	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 15:10

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BB06518

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06624	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.105	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	2.59	20.0
BB06624	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.217	0.217	0.182	0.170 to 0.230	109	70.0 to 130	0.155	20.0
BB06524	Mercury, Total by CVAA	mg/L	0.0000247	0.000500	0.004	0.00369	0.00376	0.00415	0.00340 to 0.00460	92.2	70.0 to 130	1.88	20.0
BB06624	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.109	0.111	0.0935	0.0850 to 0.115	94.0	70.0 to 130	2.02	20.0
BB06624	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.109	0.110	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.177	20.0
BB06624	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0928	0.0921	0.0892	0.0850 to 0.115	92.8	70.0 to 130	0.733	20.0
BB06624	Iron, Total	mg/L	0.000335	0.0176	0.2	0.668	0.666	0.189	0.170 to 0.230	95.7	70.0 to 130	0.176	20.0
BB06624	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0959	0.0975	0.0947	0.0850 to 0.115	95.9	70.0 to 130	1.68	20.0
BB06624	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	27.2	27.4	5.09	4.25 to 5.75	93.6	70.0 to 130	0.884	20.0
BB06624	Sodium, Total	mg/L	0.000726	0.0660	5.00	18.5	18.5	4.82	4.25 to 5.75	110	70.0 to 130	0.104	20.0
BB06624	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0996	0.101	0.0977	0.0850 to 0.115	99.6	70.0 to 130	1.70	20.0
BB06624	Boron, Total	mg/L	0.00831	0.0650	1.00	1.01	1.02	0.988	0.850 to 1.15	101	70.0 to 130	0.491	20.0
BB06624	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0946	0.0954	0.0983	0.0850 to 0.115	94.5	70.0 to 130	0.795	20.0
BB06624	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.110	0.110	0.0974	0.0850 to 0.115	96.8	70.0 to 130	0.129	20.0
BB06624	Potassium, Total	mg/L	0.00454	0.367	10.0	10.1	10.1	9.88	8.50 to 11.5	98.0	70.0 to 130	0.102	20.0
BB06624	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0952	0.0964	0.0932	0.0850 to 0.115	95.2	70.0 to 130	1.31	20.0
BB06624	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0970	0.0951	0.102	0.0850 to 0.115	97.0	70.0 to 130	1.96	20.0
BB06518	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	0.229	0.230	0.200	0.170 to 0.230	99.4	70.0 to 130	0.732	20.0
BB06518	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.119	0.117	0.104	0.0850 to 0.115	107	70.0 to 130	1.67	20.0
BB06624	Calcium, Total	mg/L	-0.00388	0.152	5.00	47.9	46.7	5.13	4.25 to 5.75	106	70.0 to 130	2.61	20.0
BB06624	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0957	0.0956	0.0978	0.0850 to 0.115	95.4	70.0 to 130	0.120	20.0
BB06624	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0956	0.0975	0.0927	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 15:10

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BB06518

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06524	Solids, Dissolved	mg/L	-1.00	25.0			606	55.0	40.0 to 60.0			0.832	5.00
BB06524	Sulfate	mg/L	-0.384	1.00	400	546	180	18.6	18.0 to 22.0	91.2	80.0 to 120	0.554	20.0
BB06524	Fluoride	mg/L	0.0356	0.100	2.50	2.70	0.0687	2.59	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06524	Chloride	mg/L	0.0234	1.00	10.0	22.0	12.5	9.99	9.00 to 11.0	96.0	80.0 to 120	0.803	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP
Collected: 4/5/21 16:56
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06519

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:50		1.015	1.20	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 13:48		10.15	44.7	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 10:50		1.015	0.0423	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 10:50		1.015	0.323	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 10:50		1.015	18.0	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 10:50		1.015	27.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:42		1.015	0.0272	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 11:29		1.015	0.00227	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 11:29		1.015	0.0577	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 11:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 11:29		1.015	0.000293	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 11:29		1.015	1.01	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 11:29		1.015	15.2	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 11:29		1.015	0.00238	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 11:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:23		1.015	0.00263	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	59.7	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/7/21 11:50	4/9/21 08:15		1	345	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP
Collected: 4/5/21 16:56
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06519

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	58.6	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	1.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/7/21 12:54	4/7/21 12:54		2	25.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/7/21 15:12	4/7/21 15:12		1	0.0780	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:03	4/13/21 10:03		10	168	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/5/21 16:53	4/5/21 16:53			517.94	uS/cm			FA
pH	4/5/21 16:53	4/5/21 16:53			8.16	SU			FA
Temperature	4/5/21 16:53	4/5/21 16:53			21.38	C			FA
Turbidity	4/5/21 16:53	4/5/21 16:53			1.8	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 16:56

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BB06519

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB06627	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.324	0.327	0.104	0.0850 to 0.115	97.2	70.0 to 130	1.17	20.0
BB06524	Mercury, Total by CVAA	mg/L	0.0000247	0.000500	0.004	0.00369	0.00376	0.00415	0.00340 to 0.00460	92.2	70.0 to 130	1.88	20.0
BB06624	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.109	0.111	0.0935	0.0850 to 0.115	94.0	70.0 to 130	2.02	20.0
BB06624	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.109	0.110	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.177	20.0
BB06624	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.105	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	2.59	20.0
BB06624	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.217	0.217	0.182	0.170 to 0.230	109	70.0 to 130	0.155	20.0
BB06624	Boron, Total	mg/L	0.00831	0.0650	1.00	1.01	1.02	0.988	0.850 to 1.15	101	70.0 to 130	0.491	20.0
BB06624	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0946	0.0954	0.0983	0.0850 to 0.115	94.5	70.0 to 130	0.795	20.0
BB06624	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.110	0.110	0.0974	0.0850 to 0.115	96.8	70.0 to 130	0.129	20.0
BB06624	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0928	0.0921	0.0892	0.0850 to 0.115	92.8	70.0 to 130	0.733	20.0
BB06624	Iron, Total	mg/L	0.000335	0.0176	0.2	0.668	0.666	0.189	0.170 to 0.230	95.7	70.0 to 130	0.176	20.0
BB06624	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0959	0.0975	0.0947	0.0850 to 0.115	95.9	70.0 to 130	1.68	20.0
BB06624	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	27.2	27.4	5.09	4.25 to 5.75	93.6	70.0 to 130	0.884	20.0
BB06624	Sodium, Total	mg/L	0.000726	0.0660	5.00	18.5	18.5	4.82	4.25 to 5.75	110	70.0 to 130	0.104	20.0
BB06624	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0996	0.101	0.0977	0.0850 to 0.115	99.6	70.0 to 130	1.70	20.0
BB06624	Potassium, Total	mg/L	0.00454	0.367	10.0	10.1	10.1	9.88	8.50 to 11.5	98.0	70.0 to 130	0.102	20.0
BB06624	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0952	0.0964	0.0932	0.0850 to 0.115	95.2	70.0 to 130	1.31	20.0
BB06624	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0970	0.0951	0.102	0.0850 to 0.115	97.0	70.0 to 130	1.96	20.0
BB06624	Calcium, Total	mg/L	-0.00388	0.152	5.00	47.9	46.7	5.13	4.25 to 5.75	106	70.0 to 130	2.61	20.0
BB06624	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0957	0.0956	0.0978	0.0850 to 0.115	95.4	70.0 to 130	0.120	20.0
BB06624	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0956	0.0975	0.0927	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BB06627	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	1.38	1.38	0.200	0.170 to 0.230	98.3	70.0 to 130	0.222	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 16:56

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BB06519

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06524	Sulfate	mg/L	-0.384	1.00	400	546	180	18.6	18.0 to 22.0	91.2	80.0 to 120	0.554	20.0
BB06524	Solids, Dissolved	mg/L	-1.00	25.0			606	55.0	40.0 to 60.0			0.832	5.00
BB06524	Chloride	mg/L	0.0234	1.00	10.0	22.0	12.5	9.99	9.00 to 11.0	96.0	80.0 to 120	0.803	20.0
BB06524	Fluoride	mg/L	0.0356	0.100	2.50	2.70	0.0687	2.59	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-4

Location Code: WMWGASAPFB
Collected: 4/6/21 11:30
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06520

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:53		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/13/21 13:00	4/15/21 10:53		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/13/21 13:00	4/15/21 10:53		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/13/21 13:00	4/15/21 10:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 10:53		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	4/13/21 13:00	4/15/21 10:53		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 11:33		1.015	0.000398	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	4/7/21 11:50	4/9/21 08:15		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	4/7/21 12:32	4/7/21 12:32		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	4/7/21 15:13	4/7/21 15:13		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	4/13/21 10:05	4/13/21 10:05		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 4/6/21 11:30

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BB06520

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB06524	Mercury, Total by CVAA	mg/L	0.0000247	0.000500	0.004	0.00369	0.00376	0.00415	0.00340 to 0.00460	92.2	70.0 to 130	1.88	20.0
BB06624	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.109	0.111	0.0935	0.0850 to 0.115	94.0	70.0 to 130	2.02	20.0
BB06624	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.109	0.110	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.177	20.0
BB06624	Potassium, Total	mg/L	0.00454	0.367	10.0	10.1	10.1	9.88	8.50 to 11.5	98.0	70.0 to 130	0.102	20.0
BB06624	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0952	0.0964	0.0932	0.0850 to 0.115	95.2	70.0 to 130	1.31	20.0
BB06624	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0970	0.0951	0.102	0.0850 to 0.115	97.0	70.0 to 130	1.96	20.0
BB06624	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0959	0.0975	0.0947	0.0850 to 0.115	95.9	70.0 to 130	1.68	20.0
BB06624	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	27.2	27.4	5.09	4.25 to 5.75	93.6	70.0 to 130	0.884	20.0
BB06624	Sodium, Total	mg/L	0.000726	0.0660	5.00	18.5	18.5	4.82	4.25 to 5.75	110	70.0 to 130	0.104	20.0
BB06624	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0996	0.101	0.0977	0.0850 to 0.115	99.6	70.0 to 130	1.70	20.0
BB06624	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0928	0.0921	0.0892	0.0850 to 0.115	92.8	70.0 to 130	0.733	20.0
BB06624	Iron, Total	mg/L	0.000335	0.0176	0.2	0.668	0.666	0.189	0.170 to 0.230	95.7	70.0 to 130	0.176	20.0
BB06624	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.105	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	2.59	20.0
BB06624	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.217	0.217	0.182	0.170 to 0.230	109	70.0 to 130	0.155	20.0
BB06624	Boron, Total	mg/L	0.00831	0.0650	1.00	1.01	1.02	0.988	0.850 to 1.15	101	70.0 to 130	0.491	20.0
BB06624	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0946	0.0954	0.0983	0.0850 to 0.115	94.5	70.0 to 130	0.795	20.0
BB06624	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.110	0.110	0.0974	0.0850 to 0.115	96.8	70.0 to 130	0.129	20.0
BB06624	Calcium, Total	mg/L	-0.00388	0.152	5.00	47.9	46.7	5.13	4.25 to 5.75	106	70.0 to 130	2.61	20.0
BB06624	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0957	0.0956	0.0978	0.0850 to 0.115	95.4	70.0 to 130	0.120	20.0
BB06624	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0956	0.0975	0.0927	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 4/6/21 11:30

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BB06520

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06524	Solids, Dissolved	mg/L	-1.00	25.0			606	55.0	40.0 to 60.0			0.832	5.00
BB06524	Fluoride	mg/L	0.0356	0.100	2.50	2.70	0.0687	2.59	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB06524	Chloride	mg/L	0.0234	1.00	10.0	22.0	12.5	9.99	9.00 to 11.0	96.0	80.0 to 120	0.803	20.0
BB06524	Sulfate	mg/L	-0.384	1.00	400	546	180	18.6	18.0 to 22.0	91.2	80.0 to 120	0.554	20.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 4/6/21 11:46
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06521

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 10:56		1.015	2.16	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 13:51		10.15	72.8	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 10:56		1.015	0.0699	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 10:56		1.015	0.522	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 10:56		1.015	25.1	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 10:56		1.015	35.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:45		1.015	0.0156	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 11:36		1.015	0.00122	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 11:36		1.015	0.0491	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 11:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:36		1.015	0.000249	mg/L	0.000068	0.000203	
* Chromium, Total	4/14/21 13:48	4/16/21 11:36		1.015	0.000443	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:36		1.015	0.000100	mg/L	0.000068	0.000203	J
* Lead, Total	4/14/21 13:48	4/16/21 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 15:43		5.075	2.22	mg/L	0.000340	0.001015	
* Potassium, Total	4/14/21 13:48	4/16/21 11:36		1.015	28.3	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 11:36		1.015	0.00767	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 11:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:26		1.015	0.00593	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	42.7	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/7/21 11:50	4/9/21 08:15		1	525	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 4/6/21 11:46
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06521

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	41.0	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	1.53	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/7/21 12:41	4/7/21 12:41		2	34.5	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/7/21 15:14	4/7/21 15:14		1	0.0995	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:06	4/13/21 10:06		16	288	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/6/21 11:42	4/6/21 11:42			729.86	uS/cm			FA
pH	4/6/21 11:42	4/6/21 11:42			8.60	SU			FA
Temperature	4/6/21 11:42	4/6/21 11:42			21.48	C			FA
Turbidity	4/6/21 11:42	4/6/21 11:42			6.77	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 11:46

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BB06521

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06627	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.324	0.327	0.104	0.0850 to 0.115	97.2	70.0 to 130	1.17	20.0
BB06624	Potassium, Total	mg/L	0.00454	0.367	10.0	10.1	10.1	9.88	8.50 to 11.5	98.0	70.0 to 130	0.102	20.0
BB06624	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0952	0.0964	0.0932	0.0850 to 0.115	95.2	70.0 to 130	1.31	20.0
BB06624	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0970	0.0951	0.102	0.0850 to 0.115	97.0	70.0 to 130	1.96	20.0
BB06624	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0959	0.0975	0.0947	0.0850 to 0.115	95.9	70.0 to 130	1.68	20.0
BB06624	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	27.2	27.4	5.09	4.25 to 5.75	93.6	70.0 to 130	0.884	20.0
BB06624	Sodium, Total	mg/L	0.000726	0.0660	5.00	18.5	18.5	4.82	4.25 to 5.75	110	70.0 to 130	0.104	20.0
BB06624	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0996	0.101	0.0977	0.0850 to 0.115	99.6	70.0 to 130	1.70	20.0
BB06624	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0928	0.0921	0.0892	0.0850 to 0.115	92.8	70.0 to 130	0.733	20.0
BB06624	Iron, Total	mg/L	0.000335	0.0176	0.2	0.668	0.666	0.189	0.170 to 0.230	95.7	70.0 to 130	0.176	20.0
BB06624	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.105	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	2.59	20.0
BB06624	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.217	0.217	0.182	0.170 to 0.230	109	70.0 to 130	0.155	20.0
BB06524	Mercury, Total by CVAA	mg/L	0.0000247	0.000500	0.004	0.00369	0.00376	0.00415	0.00340 to 0.00460	92.2	70.0 to 130	1.88	20.0
BB06624	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.109	0.111	0.0935	0.0850 to 0.115	94.0	70.0 to 130	2.02	20.0
BB06624	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.109	0.110	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.177	20.0
BB06624	Boron, Total	mg/L	0.00831	0.0650	1.00	1.01	1.02	0.988	0.850 to 1.15	101	70.0 to 130	0.491	20.0
BB06624	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0946	0.0954	0.0983	0.0850 to 0.115	94.5	70.0 to 130	0.795	20.0
BB06624	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.110	0.110	0.0974	0.0850 to 0.115	96.8	70.0 to 130	0.129	20.0
BB06624	Calcium, Total	mg/L	-0.00388	0.152	5.00	47.9	46.7	5.13	4.25 to 5.75	106	70.0 to 130	2.61	20.0
BB06624	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0957	0.0956	0.0978	0.0850 to 0.115	95.4	70.0 to 130	0.120	20.0
BB06624	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0956	0.0975	0.0927	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BB06627	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	1.38	1.38	0.200	0.170 to 0.230	98.3	70.0 to 130	0.222	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 11:46

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BB06521

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB06524	Solids, Dissolved	mg/L	-1.00	25.0			606	55.0	40.0 to 60.0			0.832	5.00
BB06524	Sulfate	mg/L	-0.384	1.00	400	546	180	18.6	18.0 to 22.0	91.2	80.0 to 120	0.554	20.0
BB06524	Chloride	mg/L	0.0234	1.00	10.0	22.0	12.5	9.99	9.00 to 11.0	96.0	80.0 to 120	0.803	20.0
BB06524	Fluoride	mg/L	0.0356	0.100	2.50	2.70	0.0687	2.59	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP
Collected: 4/6/21 13:05
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06522

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:00		1.015	2.58	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 13:55		10.15	99.9	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 11:00		1.015	0.412	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 11:00		1.015	0.251	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 11:00		1.015	17.4	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 11:00		1.015	35.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:49		1.015	0.400	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 11:40		1.015	0.00217	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 11:40		1.015	0.0751	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 11:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:40		1.015	0.000173	mg/L	0.000068	0.000203	J
* Chromium, Total	4/14/21 13:48	4/16/21 11:40		1.015	0.000346	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:40		1.015	0.00202	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 11:40		1.015	1.26	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 11:40		1.015	18.9	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 11:40		1.015	0.567	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 11:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:40		1.015	0.000181	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:30		1.015	0.613	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	43.1	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/7/21 11:50	4/9/21 08:15		1	572	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP
Collected: 4/6/21 13:05
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06522

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	42.9	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	0.17	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/7/21 12:42	4/7/21 12:42		2	34.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/7/21 15:15	4/7/21 15:15		1	0.129	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:07	4/13/21 10:07		20	297	mg/L	10.00	20	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/6/21 13:02	4/6/21 13:02			773.78	uS/cm			FA
pH	4/6/21 13:02	4/6/21 13:02			7.56	SU			FA
Temperature	4/6/21 13:02	4/6/21 13:02			20.34	C			FA
Turbidity	4/6/21 13:02	4/6/21 13:02			1.01	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 13:05

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BB06522

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BB06627	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.324	0.327	0.104	0.0850 to 0.115	97.2	70.0 to 130	1.17	20.0	
BB06524	Mercury, Total by CVAA	mg/L	0.0000247	0.000500	0.004	0.00369	0.00376	0.00415	0.00340 to 0.00460	92.2	70.0 to 130	1.88	20.0	
BB06624	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.109	0.111	0.0935	0.0850 to 0.115	94.0	70.0 to 130	2.02	20.0	
BB06624	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.109	0.110	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.177	20.0	
BB06624	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0928	0.0921	0.0892	0.0850 to 0.115	92.8	70.0 to 130	0.733	20.0	
BB06624	Iron, Total	mg/L	0.000335	0.0176	0.2	0.668	0.666	0.189	0.170 to 0.230	95.7	70.0 to 130	0.176	20.0	
BB06624	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.105	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	2.59	20.0	
BB06624	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.217	0.217	0.182	0.170 to 0.230	109	70.0 to 130	0.155	20.0	
BB06624	Potassium, Total	mg/L	0.00454	0.367	10.0	10.1	10.1	9.88	8.50 to 11.5	98.0	70.0 to 130	0.102	20.0	
BB06624	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0952	0.0964	0.0932	0.0850 to 0.115	95.2	70.0 to 130	1.31	20.0	
BB06624	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0970	0.0951	0.102	0.0850 to 0.115	97.0	70.0 to 130	1.96	20.0	
BB06624	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0959	0.0975	0.0947	0.0850 to 0.115	95.9	70.0 to 130	1.68	20.0	
BB06624	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	27.2	27.4	5.09	4.25 to 5.75	93.6	70.0 to 130	0.884	20.0	
BB06624	Sodium, Total	mg/L	0.000726	0.0660	5.00	18.5	18.5	4.82	4.25 to 5.75	110	70.0 to 130	0.104	20.0	
BB06624	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0996	0.101	0.0977	0.0850 to 0.115	99.6	70.0 to 130	1.70	20.0	
BB06624	Calcium, Total	mg/L	-0.00388	0.152	5.00	47.9	46.7	5.13	4.25 to 5.75	106	70.0 to 130	2.61	20.0	
BB06624	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0957	0.0956	0.0978	0.0850 to 0.115	95.4	70.0 to 130	0.120	20.0	
BB06624	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0956	0.0975	0.0927	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0	
BB06627	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	1.38	1.38	0.200	0.170 to 0.230	98.3	70.0 to 130	0.222	20.0	
BB06624	Boron, Total	mg/L	0.00831	0.0650	1.00	1.01	1.02	0.988	0.850 to 1.15	101	70.0 to 130	0.491	20.0	
BB06624	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0946	0.0954	0.0983	0.0850 to 0.115	94.5	70.0 to 130	0.795	20.0	
BB06624	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.110	0.110	0.0974	0.0850 to 0.115	96.8	70.0 to 130	0.129	20.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 13:05

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BB06522

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB06524	Solids, Dissolved	mg/L	-1.00	25.0			606	55.0	40.0 to 60.0			0.832	5.00
BB06524	Sulfate	mg/L	-0.384	1.00	400	546	180	18.6	18.0 to 22.0	91.2	80.0 to 120	0.554	20.0
BB06524	Chloride	mg/L	0.0234	1.00	10.0	22.0	12.5	9.99	9.00 to 11.0	96.0	80.0 to 120	0.803	20.0
BB06524	Fluoride	mg/L	0.0356	0.100	2.50	2.70	0.0687	2.59	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP
Collected: 4/6/21 14:45
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06523

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:03		1.015	3.48	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 13:58		10.15	159	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 11:03		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/13/21 13:00	4/15/21 11:03		1.015	1.01	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 11:03		1.015	6.18	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 13:58		10.15	40.7	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:52		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:43		1.015	0.000633	mg/L	0.000507	0.001015	J
* Arsenic, Total	4/14/21 13:48	4/16/21 11:43		1.015	0.00999	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 11:43		1.015	0.119	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 11:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:43		1.015	0.000391	mg/L	0.000068	0.000203	
* Chromium, Total	4/14/21 13:48	4/16/21 11:43		1.015	0.000347	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 15:47		5.075	3.56	mg/L	0.000340	0.001015	
* Potassium, Total	4/14/21 13:48	4/16/21 11:43		1.015	35.6	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 11:43		1.015	0.00742	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 11:43		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:34		1.015	0.00734	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	24.1	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/7/21 11:50	4/9/21 08:15		1	772	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP
Collected: 4/6/21 14:45
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06523

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	18.0	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	4.67	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/7/21 12:44	4/7/21 12:44		4	52.8	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/7/21 15:17	4/7/21 15:17		1	0.179	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:08	4/13/21 10:08		25	421	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/6/21 14:41	4/6/21 14:41			1008.15	uS/cm			FA
pH	4/6/21 14:41	4/6/21 14:41			9.59	SU			FA
Temperature	4/6/21 14:41	4/6/21 14:41			21.00	C			FA
Turbidity	4/6/21 14:41	4/6/21 14:41			1.37	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 14:45

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BB06523

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06627	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.324	0.327	0.104	0.0850 to 0.115	97.2	70.0 to 130	1.17	20.0
BB06624	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.105	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	2.59	20.0
BB06624	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.217	0.217	0.182	0.170 to 0.230	109	70.0 to 130	0.155	20.0
BB06624	Potassium, Total	mg/L	0.00454	0.367	10.0	10.1	10.1	9.88	8.50 to 11.5	98.0	70.0 to 130	0.102	20.0
BB06624	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0952	0.0964	0.0932	0.0850 to 0.115	95.2	70.0 to 130	1.31	20.0
BB06624	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0970	0.0951	0.102	0.0850 to 0.115	97.0	70.0 to 130	1.96	20.0
BB06524	Mercury, Total by CVAA	mg/L	0.0000247	0.000500	0.004	0.00369	0.00376	0.00415	0.00340 to 0.00460	92.2	70.0 to 130	1.88	20.0
BB06624	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.109	0.111	0.0935	0.0850 to 0.115	94.0	70.0 to 130	2.02	20.0
BB06624	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.109	0.110	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.177	20.0
BB06624	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0928	0.0921	0.0892	0.0850 to 0.115	92.8	70.0 to 130	0.733	20.0
BB06624	Iron, Total	mg/L	0.000335	0.0176	0.2	0.668	0.666	0.189	0.170 to 0.230	95.7	70.0 to 130	0.176	20.0
BB06624	Boron, Total	mg/L	0.00831	0.0650	1.00	1.01	1.02	0.988	0.850 to 1.15	101	70.0 to 130	0.491	20.0
BB06624	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0946	0.0954	0.0983	0.0850 to 0.115	94.5	70.0 to 130	0.795	20.0
BB06624	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.110	0.110	0.0974	0.0850 to 0.115	96.8	70.0 to 130	0.129	20.0
BB06624	Calcium, Total	mg/L	-0.00388	0.152	5.00	47.9	46.7	5.13	4.25 to 5.75	106	70.0 to 130	2.61	20.0
BB06624	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0957	0.0956	0.0978	0.0850 to 0.115	95.4	70.0 to 130	0.120	20.0
BB06624	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0956	0.0975	0.0927	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BB06627	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	1.38	1.38	0.200	0.170 to 0.230	98.3	70.0 to 130	0.222	20.0
BB06624	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0959	0.0975	0.0947	0.0850 to 0.115	95.9	70.0 to 130	1.68	20.0
BB06624	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	27.2	27.4	5.09	4.25 to 5.75	93.6	70.0 to 130	0.884	20.0
BB06624	Sodium, Total	mg/L	0.000726	0.0660	5.00	18.5	18.5	4.82	4.25 to 5.75	110	70.0 to 130	0.104	20.0
BB06624	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0996	0.101	0.0977	0.0850 to 0.115	99.6	70.0 to 130	1.70	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 14:45

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BB06523

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06524	Solids, Dissolved	mg/L	-1.00	25.0			606	55.0	40.0 to 60.0			0.832	5.00
BB06524	Sulfate	mg/L	-0.384	1.00	400	546	180	18.6	18.0 to 22.0	91.2	80.0 to 120	0.554	20.0
BB06524	Chloride	mg/L	0.0234	1.00	10.0	22.0	12.5	9.99	9.00 to 11.0	96.0	80.0 to 120	0.803	20.0
BB06524	Fluoride	mg/L	0.0356	0.100	2.50	2.70	0.0687	2.59	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 4/6/21 15:50
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06524

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:07		1.015	1.44	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 14:08		10.15	121	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 11:07		1.015	0.185	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 11:07		1.015	0.0500	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 14:08		10.15	50.8	mg/L	0.21315	4.06	
* Sodium, Total	4/13/21 13:00	4/15/21 11:07		1.015	8.88	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:56		1.015	0.149	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:47		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 11:47		1.015	0.00272	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 11:47		1.015	0.0483	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 11:47		1.015	0.000334	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:47		1.015	0.000633	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 11:47		1.015	0.0307	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 11:47		1.015	2.33	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 11:47		1.015	0.204	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 11:47		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:47		1.015	0.000389	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:37		1.015	0.259	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	314	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/7/21 11:50	4/9/21 08:15		1	596	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 4/6/21 15:50
Customer ID:
Submittal Date: 4/7/21 09:33

Laboratory ID Number: BB06524

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	313	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	0.33	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/7/21 12:36	4/7/21 12:36		1	12.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/7/21 15:18	4/7/21 15:18		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:09	4/13/21 10:09		20	181	mg/L	10.00	20	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/6/21 15:46	4/6/21 15:46			805.93	uS/cm			FA
pH	4/6/21 15:46	4/6/21 15:46			6.67	SU			FA
Temperature	4/6/21 15:46	4/6/21 15:46			19.99	C			FA
Turbidity	4/6/21 15:46	4/6/21 15:46			1.44	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 15:50

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BB06524

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BB06627	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.324	0.327	0.104	0.0850 to 0.115	97.2	70.0 to 130	1.17	20.0	
BB06524	Mercury, Total by CVAA	mg/L	0.0000247	0.000500	0.004	0.00369	0.00376	0.00415	0.00340 to 0.00460	92.2	70.0 to 130	1.88	20.0	
BB06624	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.109	0.111	0.0935	0.0850 to 0.115	94.0	70.0 to 130	2.02	20.0	
BB06624	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.109	0.110	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.177	20.0	
BB06624	Boron, Total	mg/L	0.00831	0.0650	1.00	1.01	1.02	0.988	0.850 to 1.15	101	70.0 to 130	0.491	20.0	
BB06624	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0946	0.0954	0.0983	0.0850 to 0.115	94.5	70.0 to 130	0.795	20.0	
BB06624	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.110	0.110	0.0974	0.0850 to 0.115	96.8	70.0 to 130	0.129	20.0	
BB06624	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.105	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	2.59	20.0	
BB06624	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.217	0.217	0.182	0.170 to 0.230	109	70.0 to 130	0.155	20.0	
BB06624	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0928	0.0921	0.0892	0.0850 to 0.115	92.8	70.0 to 130	0.733	20.0	
BB06624	Iron, Total	mg/L	0.000335	0.0176	0.2	0.668	0.666	0.189	0.170 to 0.230	95.7	70.0 to 130	0.176	20.0	
BB06624	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0959	0.0975	0.0947	0.0850 to 0.115	95.9	70.0 to 130	1.68	20.0	
BB06624	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	27.2	27.4	5.09	4.25 to 5.75	93.6	70.0 to 130	0.884	20.0	
BB06624	Sodium, Total	mg/L	0.000726	0.0660	5.00	18.5	18.5	4.82	4.25 to 5.75	110	70.0 to 130	0.104	20.0	
BB06624	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0996	0.101	0.0977	0.0850 to 0.115	99.6	70.0 to 130	1.70	20.0	
BB06624	Potassium, Total	mg/L	0.00454	0.367	10.0	10.1	10.1	9.88	8.50 to 11.5	98.0	70.0 to 130	0.102	20.0	
BB06624	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0952	0.0964	0.0932	0.0850 to 0.115	95.2	70.0 to 130	1.31	20.0	
BB06624	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0970	0.0951	0.102	0.0850 to 0.115	97.0	70.0 to 130	1.96	20.0	
BB06624	Calcium, Total	mg/L	-0.00388	0.152	5.00	47.9	46.7	5.13	4.25 to 5.75	106	70.0 to 130	2.61	20.0	
BB06624	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0957	0.0956	0.0978	0.0850 to 0.115	95.4	70.0 to 130	0.120	20.0	
BB06624	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0956	0.0975	0.0927	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0	
BB06627	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	1.38	1.38	0.200	0.170 to 0.230	98.3	70.0 to 130	0.222	20.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 15:50

Customer ID:

Delivery Date: 4/7/21 09:33

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BB06524

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB06524	Solids, Dissolved	mg/L	-1.00	25.0			606	55.0	40.0 to 60.0			0.832	5.00
BB06524	Sulfate	mg/L	-0.384	1.00	400	546	180	18.6	18.0 to 22.0	91.2	80.0 to 120	0.554	20.0
BB06524	Chloride	mg/L	0.0234	1.00	10.0	22.0	12.5	9.99	9.00 to 11.0	96.0	80.0 to 120	0.803	20.0
BB06524	Fluoride	mg/L	0.0356	0.100	2.50	2.70	0.0687	2.59	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 4/5/21 09:43
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06622

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:10		1.015	0.200	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 14:12		10.15	52.2	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 11:10		1.015	0.0123	mg/L	0.008120	0.0406	J
* Lithium, Total	4/13/21 13:00	4/15/21 11:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 11:10		1.015	29.3	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 11:10		1.015	7.87	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/12/21 13:00	4/13/21 11:59		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 11:50		1.015	0.000142	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 11:50		1.015	0.0151	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 11:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 11:50		1.015	0.000909	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 11:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 11:50		1.015	0.000137	mg/L	0.000068	0.000203	J
* Potassium, Total	4/14/21 13:48	4/16/21 11:50		1.015	0.842	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 11:50		1.015	0.00239	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 11:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:41		1.015	0.00212	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	217	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	248	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 4/5/21 09:43
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06622

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	217	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	0.74	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:10	4/8/21 12:10		1	12.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:21	4/8/21 14:21		1	0.0842	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:22	4/13/21 10:22		1	15.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/5/21 09:40	4/5/21 09:40			462.28	uS/cm			FA
pH	4/5/21 09:40	4/5/21 09:40			7.33	SU			FA
Temperature	4/5/21 09:40	4/5/21 09:40			18.91	C			FA
Turbidity	4/5/21 09:40	4/5/21 09:40			3.09	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 09:43

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BB06622

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06627	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.324	0.327	0.104	0.0850 to 0.115	97.2	70.0 to 130	1.17	20.0
BB06624	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.109	0.111	0.0935	0.0850 to 0.115	94.0	70.0 to 130	2.02	20.0
BB06624	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.109	0.110	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.177	20.0
BB06631	Mercury, Total by CVAA	mg/L	0.0000203	0.000500	0.004	0.00416	0.00404	0.00406	0.00340 to 0.00460	104	70.0 to 130	2.93	20.0
BB06624	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.105	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	2.59	20.0
BB06624	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.217	0.217	0.182	0.170 to 0.230	109	70.0 to 130	0.155	20.0
BB06624	Boron, Total	mg/L	0.00831	0.0650	1.00	1.01	1.02	0.988	0.850 to 1.15	101	70.0 to 130	0.491	20.0
BB06624	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0946	0.0954	0.0983	0.0850 to 0.115	94.5	70.0 to 130	0.795	20.0
BB06624	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.110	0.110	0.0974	0.0850 to 0.115	96.8	70.0 to 130	0.129	20.0
BB06624	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0928	0.0921	0.0892	0.0850 to 0.115	92.8	70.0 to 130	0.733	20.0
BB06624	Iron, Total	mg/L	0.000335	0.0176	0.2	0.668	0.666	0.189	0.170 to 0.230	95.7	70.0 to 130	0.176	20.0
BB06624	Potassium, Total	mg/L	0.00454	0.367	10.0	10.1	10.1	9.88	8.50 to 11.5	98.0	70.0 to 130	0.102	20.0
BB06624	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0952	0.0964	0.0932	0.0850 to 0.115	95.2	70.0 to 130	1.31	20.0
BB06624	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0970	0.0951	0.102	0.0850 to 0.115	97.0	70.0 to 130	1.96	20.0
BB06624	Calcium, Total	mg/L	-0.00388	0.152	5.00	47.9	46.7	5.13	4.25 to 5.75	106	70.0 to 130	2.61	20.0
BB06624	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0957	0.0956	0.0978	0.0850 to 0.115	95.4	70.0 to 130	0.120	20.0
BB06624	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0956	0.0975	0.0927	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BB06627	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	1.38	1.38	0.200	0.170 to 0.230	98.3	70.0 to 130	0.222	20.0
BB06624	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0959	0.0975	0.0947	0.0850 to 0.115	95.9	70.0 to 130	1.68	20.0
BB06624	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	27.2	27.4	5.09	4.25 to 5.75	93.6	70.0 to 130	0.884	20.0
BB06624	Sodium, Total	mg/L	0.000726	0.0660	5.00	18.5	18.5	4.82	4.25 to 5.75	110	70.0 to 130	0.104	20.0
BB06624	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0996	0.101	0.0977	0.0850 to 0.115	99.6	70.0 to 130	1.70	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 09:43

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BB06622

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06631	Solids, Dissolved	mg/L	-1.00	25.0			139	49.0	40.0 to 60.0			1.42	5.00
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06631	Fluoride	mg/L	0.0409	0.100	2.50	2.70	0.0834	2.60	2.25 to 2.75	105	80.0 to 120	10.3	20.0
BB06631	Sulfate	mg/L	-0.358	1.00	20.0	36.7	17.8	18.4	18.0 to 22.0	92.0	80.0 to 120	2.77	20.0
BB06631	Chloride	mg/L	-0.0433	1.00	10.0	26.9	17.4	10.1	9.00 to 11.0	95.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 4/5/21 11:22
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06623

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/13/21 13:00	4/15/21 11:13		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/13/21 13:00	4/15/21 11:13		1.015	30.6	mg/L	0.070035	0.406		
* Iron, Total	4/13/21 13:00	4/15/21 11:13		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	4/13/21 13:00	4/15/21 11:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/13/21 13:00	4/15/21 11:13		1.015	17.2	mg/L	0.021315	0.406		
* Sodium, Total	4/13/21 13:00	4/15/21 11:13		1.015	2.65	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:02		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	4/14/21 13:48	4/16/21 11:54		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Arsenic, Total	4/14/21 13:48	4/16/21 11:54		1.015	0.000829	mg/L	0.000068	0.000203		
* Barium, Total	4/14/21 13:48	4/16/21 11:54		1.015	0.0222	mg/L	0.000101	0.000203		
* Beryllium, Total	4/14/21 13:48	4/16/21 11:54		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/14/21 13:48	4/16/21 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/14/21 13:48	4/16/21 11:54		1.015	0.000650	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/14/21 13:48	4/16/21 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	4/14/21 13:48	4/16/21 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	4/14/21 13:48	4/16/21 11:54		1.015	0.00538	mg/L	0.000068	0.000203		
* Potassium, Total	4/14/21 13:48	4/16/21 11:54		1.015	0.212	mg/L	0.169505	0.5075	J	
* Manganese, Total	4/14/21 13:48	4/16/21 11:54		1.015	0.00506	mg/L	0.000068	0.000203		
* Selenium, Total	4/14/21 13:48	4/16/21 11:54		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Thallium, Total	4/14/21 13:48	4/16/21 11:54		1.015	0.000203	mg/L	0.000068	0.000203	J	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:45		1.015	0.00255	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:53		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	190	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638					
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	136	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 4/5/21 11:22
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06623

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	189	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	1.34	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:11	4/8/21 12:11		1	1.91	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:22	4/8/21 14:22		1	0.0801	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:23	4/13/21 10:23		1	3.20	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/5/21 11:18	4/5/21 11:18			264.63	uS/cm			FA
pH	4/5/21 11:18	4/5/21 11:18			7.67	SU			FA
Temperature	4/5/21 11:18	4/5/21 11:18			18.88	C			FA
Turbidity	4/5/21 11:18	4/5/21 11:18			0.76	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 11:22

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BB06623

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06627	Manganese, Dissolved	mg/L	0.000059	0.000147	0.10	0.324	0.327	0.104	0.0850 to 0.115	97.2	70.0 to 130	1.17	20.0
BB06624	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.109	0.111	0.0935	0.0850 to 0.115	94.0	70.0 to 130	2.02	20.0
BB06624	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.109	0.110	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.177	20.0
BB06631	Mercury, Total by CVAA	mg/L	0.0000203	0.000500	0.004	0.00416	0.00404	0.00406	0.00340 to 0.00460	104	70.0 to 130	2.93	20.0
BB06624	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.105	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	2.59	20.0
BB06624	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.217	0.217	0.182	0.170 to 0.230	109	70.0 to 130	0.155	20.0
BB06624	Potassium, Total	mg/L	0.00454	0.367	10.0	10.1	10.1	9.88	8.50 to 11.5	98.0	70.0 to 130	0.102	20.0
BB06624	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0952	0.0964	0.0932	0.0850 to 0.115	95.2	70.0 to 130	1.31	20.0
BB06624	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0970	0.0951	0.102	0.0850 to 0.115	97.0	70.0 to 130	1.96	20.0
BB06624	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0959	0.0975	0.0947	0.0850 to 0.115	95.9	70.0 to 130	1.68	20.0
BB06624	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	27.2	27.4	5.09	4.25 to 5.75	93.6	70.0 to 130	0.884	20.0
BB06624	Sodium, Total	mg/L	0.000726	0.0660	5.00	18.5	18.5	4.82	4.25 to 5.75	110	70.0 to 130	0.104	20.0
BB06624	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0996	0.101	0.0977	0.0850 to 0.115	99.6	70.0 to 130	1.70	20.0
BB06624	Boron, Total	mg/L	0.00831	0.0650	1.00	1.01	1.02	0.988	0.850 to 1.15	101	70.0 to 130	0.491	20.0
BB06624	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0946	0.0954	0.0983	0.0850 to 0.115	94.5	70.0 to 130	0.795	20.0
BB06624	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.110	0.110	0.0974	0.0850 to 0.115	96.8	70.0 to 130	0.129	20.0
BB06624	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0928	0.0921	0.0892	0.0850 to 0.115	92.8	70.0 to 130	0.733	20.0
BB06624	Iron, Total	mg/L	0.000335	0.0176	0.2	0.668	0.666	0.189	0.170 to 0.230	95.7	70.0 to 130	0.176	20.0
BB06624	Calcium, Total	mg/L	-0.00388	0.152	5.00	47.9	46.7	5.13	4.25 to 5.75	106	70.0 to 130	2.61	20.0
BB06624	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0957	0.0956	0.0978	0.0850 to 0.115	95.4	70.0 to 130	0.120	20.0
BB06624	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0956	0.0975	0.0927	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BB06627	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	1.38	1.38	0.200	0.170 to 0.230	98.3	70.0 to 130	0.222	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 11:22

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BB06623

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06631	Solids, Dissolved	mg/L	-1.00	25.0			139	49.0	40.0 to 60.0			1.42	5.00
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06631	Chloride	mg/L	-0.0433	1.00	10.0	26.9	17.4	10.1	9.00 to 11.0	95.0	80.0 to 120	0.00	20.0
BB06631	Fluoride	mg/L	0.0409	0.100	2.50	2.70	0.0834	2.60	2.25 to 2.75	105	80.0 to 120	10.3	20.0
BB06631	Sulfate	mg/L	-0.358	1.00	20.0	36.7	17.8	18.4	18.0 to 22.0	92.0	80.0 to 120	2.77	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

Location Code: WMWASAP
Collected: 4/5/21 13:25
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06624

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/13/21 13:00	4/15/21 14:15		10.15	42.6	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 11:17		1.015	0.476	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 11:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 11:17		1.015	22.5	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 11:17		1.015	13.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:06		1.015	0.353	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 11:58		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 11:58		1.015	0.00228	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 11:58		1.015	0.0149	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 11:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 11:58		1.015	0.000316	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 11:58		1.015	0.0000907	mg/L	0.000068	0.000203	J
* Lead, Total	4/14/21 13:48	4/16/21 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 11:58		1.015	0.0137	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 11:58		1.015	0.338	mg/L	0.169505	0.5075	J
* Manganese, Total	4/14/21 13:48	4/16/21 11:58		1.015	0.0110	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 11:58		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:49		1.015	0.0112	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	213	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	220	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP
Collected: 4/5/21 13:25
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06624

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	211	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	1.20	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:12	4/8/21 12:12		1	12.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:23	4/8/21 14:23		1	0.088	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:25	4/13/21 10:25		1	23.1	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/5/21 13:21	4/5/21 13:21			398.09	uS/cm			FA
pH	4/5/21 13:21	4/5/21 13:21			7.66	SU			FA
Temperature	4/5/21 13:21	4/5/21 13:21			21.45	C			FA
Turbidity	4/5/21 13:21	4/5/21 13:21			0.96	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 13:25

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BB06624

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06627	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.324	0.327	0.104	0.0850 to 0.115	97.2	70.0 to 130	1.17	20.0
BB06624	Barium, Total	mg/L	0.0000256	0.000200	0.10	0.109	0.111	0.0935	0.0850 to 0.115	94.0	70.0 to 130	2.02	20.0
BB06624	Manganese, Total	mg/L	0.0000162	0.000147	0.10	0.109	0.110	0.102	0.0850 to 0.115	98.3	70.0 to 130	0.177	20.0
BB06631	Mercury, Total by CVAA	mg/L	0.0000203	0.000500	0.004	0.00416	0.00404	0.00406	0.00340 to 0.00460	104	70.0 to 130	2.93	20.0
BB06624	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0959	0.0975	0.0947	0.0850 to 0.115	95.9	70.0 to 130	1.68	20.0
BB06624	Magnesium, Total	mg/L	-0.000948	0.0462	5.00	27.2	27.4	5.09	4.25 to 5.75	93.6	70.0 to 130	0.884	20.0
BB06624	Sodium, Total	mg/L	0.000726	0.0660	5.00	18.5	18.5	4.82	4.25 to 5.75	110	70.0 to 130	0.104	20.0
BB06624	Lead, Total	mg/L	0.0000047	0.000147	0.10	0.0996	0.101	0.0977	0.0850 to 0.115	99.6	70.0 to 130	1.70	20.0
BB06624	Boron, Total	mg/L	0.00831	0.0650	1.00	1.01	1.02	0.988	0.850 to 1.15	101	70.0 to 130	0.491	20.0
BB06624	Cobalt, Total	mg/L	-0.0000014	0.000147	0.10	0.0946	0.0954	0.0983	0.0850 to 0.115	94.5	70.0 to 130	0.795	20.0
BB06624	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.10	0.110	0.110	0.0974	0.0850 to 0.115	96.8	70.0 to 130	0.129	20.0
BB06624	Potassium, Total	mg/L	0.00454	0.367	10.0	10.1	10.1	9.88	8.50 to 11.5	98.0	70.0 to 130	0.102	20.0
BB06624	Antimony, Total	mg/L	0.0000904	0.00100	0.10	0.0952	0.0964	0.0932	0.0850 to 0.115	95.2	70.0 to 130	1.31	20.0
BB06624	Selenium, Total	mg/L	0.0000259	0.00100	0.10	0.0970	0.0951	0.102	0.0850 to 0.115	97.0	70.0 to 130	1.96	20.0
BB06624	Arsenic, Total	mg/L	0.0000666	0.000147	0.10	0.105	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	2.59	20.0
BB06624	Lithium, Total	mg/L	0.0000233	0.0154	0.20	0.217	0.217	0.182	0.170 to 0.230	109	70.0 to 130	0.155	20.0
BB06624	Calcium, Total	mg/L	-0.00388	0.152	5.00	47.9	46.7	5.13	4.25 to 5.75	106	70.0 to 130	2.61	20.0
BB06624	Chromium, Total	mg/L	-0.0000117	0.000440	0.10	0.0957	0.0956	0.0978	0.0850 to 0.115	95.4	70.0 to 130	0.120	20.0
BB06624	Thallium, Total	mg/L	-0.0000055	0.000147	0.10	0.0956	0.0975	0.0927	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BB06627	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	1.38	1.38	0.200	0.170 to 0.230	98.3	70.0 to 130	0.222	20.0
BB06624	Beryllium, Total	mg/L	0.0000445	0.000880	0.10	0.0928	0.0921	0.0892	0.0850 to 0.115	92.8	70.0 to 130	0.733	20.0
BB06624	Iron, Total	mg/L	0.000335	0.0176	0.2	0.668	0.666	0.189	0.170 to 0.230	95.7	70.0 to 130	0.176	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 13:25

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BB06624

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06631	Solids, Dissolved	mg/L	-1.00	25.0			139	49.0	40.0 to 60.0			1.42	5.00
BB06631	Chloride	mg/L	-0.0433	1.00	10.0	26.9	17.4	10.1	9.00 to 11.0	95.0	80.0 to 120	0.00	20.0
BB06631	Fluoride	mg/L	0.0409	0.100	2.50	2.70	0.0834	2.60	2.25 to 2.75	105	80.0 to 120	10.3	20.0
BB06631	Sulfate	mg/L	-0.358	1.00	20.0	36.7	17.8	18.4	18.0 to 22.0	92.0	80.0 to 120	2.77	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP

Collected: 4/5/21 15:29

Customer ID:

Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06625

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:40		1.015	0.171	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 11:40		1.015	33.1	mg/L	0.070035	0.406	
* Iron, Total	4/13/21 13:00	4/15/21 11:40		1.015	0.0201	mg/L	0.008120	0.0406	J
* Lithium, Total	4/13/21 13:00	4/15/21 11:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 11:40		1.015	22.7	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 14:25		10.15	56.4	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:09		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 12:26		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 12:26		1.015	0.00359	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 12:26		1.015	0.0267	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 12:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 12:26		1.015	0.000397	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 12:26		1.015	0.0133	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 12:26		1.015	2.26	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 12:26		1.015	0.0336	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 12:26		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:52		1.015	0.0346	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 13:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	244	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	319	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP
Collected: 4/5/21 15:29
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06625

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	240	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	3.66	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:24	4/8/21 12:24		4	30.6	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:25	4/8/21 14:25		1	0.558	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:26	4/13/21 10:26		1	21.7	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/5/21 15:26	4/5/21 15:26			502.01	uS/cm			FA
pH	4/5/21 15:26	4/5/21 15:26			8.19	SU			FA
Temperature	4/5/21 15:26	4/5/21 15:26			22.12	C			FA
Turbidity	4/5/21 15:26	4/5/21 15:26			1.45	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 15:29

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BB06625

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB06631	Mercury, Total by CVAA	mg/L	0.000203	0.000500	0.004	0.00416	0.00404	0.00406	0.00340 to 0.00460	104	70.0 to 130	2.93	20.0
BB06634	Boron, Total	mg/L	0.00929	0.0650	1.00	1.02	1.03	0.999	0.850 to 1.15	98.9	70.0 to 130	0.976	20.0
BB06634	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0996	0.0969	0.0974	0.0850 to 0.115	99.6	70.0 to 130	2.73	20.0
BB06634	Iron, Total	mg/L	0.000485	0.0176	0.2	0.340	0.341	0.205	0.170 to 0.230	98.0	70.0 to 130	0.294	20.0
BB06634	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.154	0.150	0.103	0.0850 to 0.115	100	70.0 to 130	2.75	20.0
BB06634	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0918	0.0894	0.0906	0.0850 to 0.115	91.8	70.0 to 130	2.57	20.0
BB06634	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0967	0.0966	0.0983	0.0850 to 0.115	96.7	70.0 to 130	0.0720	20.0
BB06634	Potassium, Total	mg/L	-0.00859	0.367	10.0	10.5	10.5	10.3	8.50 to 11.5	99.1	70.0 to 130	0.0297	20.0
BB06634	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0952	0.0929	0.0935	0.0850 to 0.115	95.2	70.0 to 130	2.49	20.0
BB06634	Calcium, Total	mg/L	-0.00300	0.152	5.00	36.5	36.6	5.12	4.25 to 5.75	96.0	70.0 to 130	0.274	20.0
BB06634	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0962	0.0938	0.101	0.0850 to 0.115	96.2	70.0 to 130	2.54	20.0
BB06634	Magnesium, Total	mg/L	0.000413	0.0462	5.00	20.0	20.1	5.14	4.25 to 5.75	100	70.0 to 130	0.499	20.0
BB06634	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0963	0.0978	0.0969	0.0850 to 0.115	95.5	70.0 to 130	1.51	20.0
BB06634	Sodium, Total	mg/L	0.00309	0.0660	5.00	37.0	36.7	4.94	4.25 to 5.75	60.0	70.0 to 130	0.814	20.0
BB06634	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0964	0.0955	0.0957	0.0850 to 0.115	96.4	70.0 to 130	1.00	20.0
BB06627	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	1.38	1.38	0.200	0.170 to 0.230	98.3	70.0 to 130	0.222	20.0
BB06634	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.104	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	0.271	20.0
BB06634	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.217	0.219	0.199	0.170 to 0.230	108	70.0 to 130	0.917	20.0
BB06627	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.324	0.327	0.104	0.0850 to 0.115	97.2	70.0 to 130	1.17	20.0
BB06634	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.199	0.201	0.0970	0.0850 to 0.115	95.4	70.0 to 130	0.974	20.0
BB06634	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0960	0.0945	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BB06634	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0965	0.0992	0.100	0.0850 to 0.115	96.5	70.0 to 130	2.78	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 15:29

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BB06625

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06631	Solids, Dissolved	mg/L	-1.00	25.0			139	49.0	40.0 to 60.0			1.42	5.00
BB06631	Chloride	mg/L	-0.0433	1.00	10.0	26.9	17.4	10.1	9.00 to 11.0	95.0	80.0 to 120	0.00	20.0
BB06631	Fluoride	mg/L	0.0409	0.100	2.50	2.70	0.0834	2.60	2.25 to 2.75	105	80.0 to 120	10.3	20.0
BB06631	Sulfate	mg/L	-0.358	1.00	20.0	36.7	17.8	18.4	18.0 to 22.0	92.0	80.0 to 120	2.77	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-2

Location Code: WMWASAPFB
Collected: 4/5/21 16:25
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06626

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:44		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/13/21 13:00	4/15/21 11:44		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/13/21 13:00	4/15/21 11:44		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/13/21 13:00	4/15/21 11:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 11:44		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	4/13/21 13:00	4/15/21 11:44		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 12:30		1.015	0.000103	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 12:30		1.015	0.000330	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 14:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	4/8/21 12:15	4/8/21 12:15		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	4/8/21 14:26	4/8/21 14:26		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	4/13/21 10:27	4/13/21 10:27		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 4/5/21 16:25

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BB06626

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06634	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.199	0.201	0.0970	0.0850 to 0.115	95.4	70.0 to 130	0.974	20.0
BB06634	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0960	0.0945	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BB06634	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0965	0.0992	0.100	0.0850 to 0.115	96.5	70.0 to 130	2.78	20.0
BB06634	Iron, Total	mg/L	0.000485	0.0176	0.2	0.340	0.341	0.205	0.170 to 0.230	98.0	70.0 to 130	0.294	20.0
BB06634	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.154	0.150	0.103	0.0850 to 0.115	100	70.0 to 130	2.75	20.0
BB06634	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.104	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	0.271	20.0
BB06634	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.217	0.219	0.199	0.170 to 0.230	108	70.0 to 130	0.917	20.0
BB06631	Mercury, Total by CVAA	mg/L	0.0000203	0.000500	0.004	0.00416	0.00404	0.00406	0.00340 to 0.00460	104	70.0 to 130	2.93	20.0
BB06634	Boron, Total	mg/L	0.00929	0.0650	1.00	1.02	1.03	0.999	0.850 to 1.15	98.9	70.0 to 130	0.976	20.0
BB06634	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0996	0.0969	0.0974	0.0850 to 0.115	99.6	70.0 to 130	2.73	20.0
BB06634	Calcium, Total	mg/L	-0.00300	0.152	5.00	36.5	36.6	5.12	4.25 to 5.75	96.0	70.0 to 130	0.274	20.0
BB06634	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0962	0.0938	0.101	0.0850 to 0.115	96.2	70.0 to 130	2.54	20.0
BB06634	Magnesium, Total	mg/L	0.000413	0.0462	5.00	20.0	20.1	5.14	4.25 to 5.75	100	70.0 to 130	0.499	20.0
BB06634	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0963	0.0978	0.0969	0.0850 to 0.115	95.5	70.0 to 130	1.51	20.0
BB06634	Sodium, Total	mg/L	0.00309	0.0660	5.00	37.0	36.7	4.94	4.25 to 5.75	60.0	70.0 to 130	0.814	20.0
BB06634	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0964	0.0955	0.0957	0.0850 to 0.115	96.4	70.0 to 130	1.00	20.0
BB06634	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0918	0.0894	0.0906	0.0850 to 0.115	91.8	70.0 to 130	2.57	20.0
BB06634	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0967	0.0966	0.0983	0.0850 to 0.115	96.7	70.0 to 130	0.0720	20.0
BB06634	Potassium, Total	mg/L	-0.00859	0.367	10.0	10.5	10.5	10.3	8.50 to 11.5	99.1	70.0 to 130	0.0297	20.0
BB06634	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0952	0.0929	0.0935	0.0850 to 0.115	95.2	70.0 to 130	2.49	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 4/5/21 16:25

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BB06626

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB06631	Solids, Dissolved	mg/L	-1.00	25.0			139	49.0	40.0 to 60.0			1.42	5.00
BB06631	Chloride	mg/L	-0.0433	1.00	10.0	26.9	17.4	10.1	9.00 to 11.0	95.0	80.0 to 120	0.00	20.0
BB06631	Fluoride	mg/L	0.0409	0.100	2.50	2.70	0.0834	2.60	2.25 to 2.75	105	80.0 to 120	10.3	20.0
BB06631	Sulfate	mg/L	-0.358	1.00	20.0	36.7	17.8	18.4	18.0 to 22.0	92.0	80.0 to 120	2.77	20.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 4/6/21 08:43
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06627

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:47		1.015	0.0485	mg/L	0.030000	0.1015	J
* Calcium, Total	4/13/21 13:00	4/15/21 14:29		10.15	78.0	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 11:47		1.015	1.24	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 11:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 11:47		1.015	40.4	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 11:47		1.015	36.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:12		1.015	1.18	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 12:33		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 12:33		1.015	0.00801	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 12:33		1.015	0.0820	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 12:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 12:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 12:33		1.015	0.000317	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 12:33		1.015	0.00127	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 12:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 12:33		1.015	0.00231	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 12:33		1.015	0.793	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 12:33		1.015	0.215	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 12:33		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 12:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 13:56		1.015	0.226	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 14:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/9/21 09:48	4/9/21 11:17		1	381	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	426	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 4/6/21 08:43
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06627

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	380	mg/L			
Carbonate Alkalinity, (calc.)	4/9/21 09:48	4/9/21 11:17		1	0.71	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:26	4/8/21 12:26		4	34.4	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:27	4/8/21 14:27		1	0.193	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:28	4/13/21 10:28		1	37.8	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/21 08:39	4/6/21 08:39			783.65	uS/cm			FA
pH	4/6/21 08:39	4/6/21 08:39			7.15	SU			FA
Temperature	4/6/21 08:39	4/6/21 08:39			19.19	C			FA
Turbidity	4/6/21 08:39	4/6/21 08:39			0.97	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 08:43

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BB06627

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06627	Manganese, Dissolved	mg/L	0.0000059	0.000147	0.10	0.324	0.327	0.104	0.0850 to 0.115	97.2	70.0 to 130	1.17	20.0
BB06634	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.199	0.201	0.0970	0.0850 to 0.115	95.4	70.0 to 130	0.974	20.0
BB06634	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0960	0.0945	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BB06634	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0965	0.0992	0.100	0.0850 to 0.115	96.5	70.0 to 130	2.78	20.0
BB06631	Mercury, Total by CVAA	mg/L	0.0000203	0.000500	0.004	0.00416	0.00404	0.00406	0.00340 to 0.00460	104	70.0 to 130	2.93	20.0
BB06634	Boron, Total	mg/L	0.00929	0.0650	1.00	1.02	1.03	0.999	0.850 to 1.15	98.9	70.0 to 130	0.976	20.0
BB06634	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0996	0.0969	0.0974	0.0850 to 0.115	99.6	70.0 to 130	2.73	20.0
BB06634	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0918	0.0894	0.0906	0.0850 to 0.115	91.8	70.0 to 130	2.57	20.0
BB06634	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0967	0.0966	0.0983	0.0850 to 0.115	96.7	70.0 to 130	0.0720	20.0
BB06634	Potassium, Total	mg/L	-0.00859	0.367	10.0	10.5	10.5	10.3	8.50 to 11.5	99.1	70.0 to 130	0.0297	20.0
BB06634	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0952	0.0929	0.0935	0.0850 to 0.115	95.2	70.0 to 130	2.49	20.0
BB06634	Iron, Total	mg/L	0.000485	0.0176	0.2	0.340	0.341	0.205	0.170 to 0.230	98.0	70.0 to 130	0.294	20.0
BB06634	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.154	0.150	0.103	0.0850 to 0.115	100	70.0 to 130	2.75	20.0
BB06627	Iron, Dissolved	mg/L	0.000184	0.0176	0.2	1.38	1.38	0.200	0.170 to 0.230	98.3	70.0 to 130	0.222	20.0
BB06634	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.104	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	0.271	20.0
BB06634	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.217	0.219	0.199	0.170 to 0.230	108	70.0 to 130	0.917	20.0
BB06634	Calcium, Total	mg/L	-0.00300	0.152	5.00	36.5	36.6	5.12	4.25 to 5.75	96.0	70.0 to 130	0.274	20.0
BB06634	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0962	0.0938	0.101	0.0850 to 0.115	96.2	70.0 to 130	2.54	20.0
BB06634	Magnesium, Total	mg/L	0.000413	0.0462	5.00	20.0	20.1	5.14	4.25 to 5.75	100	70.0 to 130	0.499	20.0
BB06634	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0963	0.0978	0.0969	0.0850 to 0.115	95.5	70.0 to 130	1.51	20.0
BB06634	Sodium, Total	mg/L	0.00309	0.0660	5.00	37.0	36.7	4.94	4.25 to 5.75	60.0	70.0 to 130	0.814	20.0
BB06634	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0964	0.0955	0.0957	0.0850 to 0.115	96.4	70.0 to 130	1.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 08:43

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BB06627

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06627	Alkalinity, Total as CaCO3	mg/L					374.72	52.4	45.0 to 55.0			1.66	10.0
BB06631	Solids, Dissolved	mg/L	-1.00	25.0			139	49.0	40.0 to 60.0			1.42	5.00
BB06631	Chloride	mg/L	-0.0433	1.00	10.0	26.9	17.4	10.1	9.00 to 11.0	95.0	80.0 to 120	0.00	20.0
BB06631	Fluoride	mg/L	0.0409	0.100	2.50	2.70	0.0834	2.60	2.25 to 2.75	105	80.0 to 120	10.3	20.0
BB06631	Sulfate	mg/L	-0.358	1.00	20.0	36.7	17.8	18.4	18.0 to 22.0	92.0	80.0 to 120	2.77	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP
Collected: 4/6/21 10:10
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06628

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:50		1.015	2.54	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 14:32		10.15	98.6	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 11:50		1.015	0.0953	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 11:50		1.015	0.0423	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/13/21 13:00	4/15/21 11:50		1.015	27.2	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 14:32		10.15	49.8	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:36		1.015	0.0875	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 12:37		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 12:37		1.015	0.000767	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 12:37		1.015	0.0541	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 12:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 12:37		1.015	0.000777	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 12:37		1.015	0.000352	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 12:37		1.015	0.156	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 12:37		1.015	6.67	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 12:37		1.015	0.382	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 12:37		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 14:26		1.015	0.384	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 14:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	93.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	590	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP
Collected: 4/6/21 10:10
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06628

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	92.6	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.38	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:27	4/8/21 12:27		8	105	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:28	4/8/21 14:28		1	0.116	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:40	4/13/21 10:40		16	230	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/21 10:07	4/6/21 10:07			914.49	uS/cm			FA
pH	4/6/21 10:07	4/6/21 10:07			7.64	SU			FA
Temperature	4/6/21 10:07	4/6/21 10:07			19.10	C			FA
Turbidity	4/6/21 10:07	4/6/21 10:07			0.8	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 10:10

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BB06628

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06631	Mercury, Total by CVAA	mg/L	0.000203	0.000500	0.004	0.00416	0.00404	0.00406	0.00340 to 0.00460	104	70.0 to 130	2.93	20.0
BB06634	Boron, Total	mg/L	0.00929	0.0650	1.00	1.02	1.03	0.999	0.850 to 1.15	98.9	70.0 to 130	0.976	20.0
BB06634	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0996	0.0969	0.0974	0.0850 to 0.115	99.6	70.0 to 130	2.73	20.0
BB06634	Iron, Total	mg/L	0.000485	0.0176	0.2	0.340	0.341	0.205	0.170 to 0.230	98.0	70.0 to 130	0.294	20.0
BB06634	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.154	0.150	0.103	0.0850 to 0.115	100	70.0 to 130	2.75	20.0
BB06634	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.104	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	0.271	20.0
BB06634	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.217	0.219	0.199	0.170 to 0.230	108	70.0 to 130	0.917	20.0
BB06634	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.199	0.201	0.0970	0.0850 to 0.115	95.4	70.0 to 130	0.974	20.0
BB06634	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0960	0.0945	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BB06634	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0965	0.0992	0.100	0.0850 to 0.115	96.5	70.0 to 130	2.78	20.0
BB06637	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.192	0.196	0.106	0.0850 to 0.115	106	70.0 to 130	2.24	20.0
BB06634	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0918	0.0894	0.0906	0.0850 to 0.115	91.8	70.0 to 130	2.57	20.0
BB06634	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0967	0.0966	0.0983	0.0850 to 0.115	96.7	70.0 to 130	0.0720	20.0
BB06634	Potassium, Total	mg/L	-0.00859	0.367	10.0	10.5	10.5	10.3	8.50 to 11.5	99.1	70.0 to 130	0.0297	20.0
BB06634	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0952	0.0929	0.0935	0.0850 to 0.115	95.2	70.0 to 130	2.49	20.0
BB06637	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.646	0.643	0.202	0.170 to 0.230	97.5	70.0 to 130	0.465	20.0
BB06634	Calcium, Total	mg/L	-0.00300	0.152	5.00	36.5	36.6	5.12	4.25 to 5.75	96.0	70.0 to 130	0.274	20.0
BB06634	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0962	0.0938	0.101	0.0850 to 0.115	96.2	70.0 to 130	2.54	20.0
BB06634	Magnesium, Total	mg/L	0.000413	0.0462	5.00	20.0	20.1	5.14	4.25 to 5.75	100	70.0 to 130	0.499	20.0
BB06634	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0963	0.0978	0.0969	0.0850 to 0.115	95.5	70.0 to 130	1.51	20.0
BB06634	Sodium, Total	mg/L	0.00309	0.0660	5.00	37.0	36.7	4.94	4.25 to 5.75	60.0	70.0 to 130	0.814	20.0
BB06634	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0964	0.0955	0.0957	0.0850 to 0.115	96.4	70.0 to 130	1.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 10:10

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BB06628

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06631	Solids, Dissolved	mg/L	-1.00	25.0			139	49.0	40.0 to 60.0			1.42	5.00
BB06631	Fluoride	mg/L	0.0409	0.100	2.50	2.70	0.0834	2.60	2.25 to 2.75	105	80.0 to 120	10.3	20.0
BB06631	Sulfate	mg/L	-0.358	1.00	20.0	36.7	17.8	18.4	18.0 to 22.0	92.0	80.0 to 120	2.77	20.0
BB06631	Chloride	mg/L	-0.0433	1.00	10.0	26.9	17.4	10.1	9.00 to 11.0	95.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP
Collected: 4/6/21 11:43
Customer ID:
Submission Date: 4/8/21 09:59

Laboratory ID Number: BB06629

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:54		1.015	0.672	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 14:35		10.15	55.2	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 11:54		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/13/21 13:00	4/15/21 11:54		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 11:54		1.015	25.5	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 11:54		1.015	12.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 12:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 12:40		1.015	0.000260	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 12:40		1.015	0.0282	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 12:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 12:40		1.015	0.000261	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 12:40		1.015	0.0175	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 12:40		1.015	1.10	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 12:40		1.015	0.00194	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 12:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 14:30		1.015	0.000513	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 14:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	156	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	280	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP
Collected: 4/6/21 11:43
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06629

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	156	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.37	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:28	4/8/21 12:28		4	30.7	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:30	4/8/21 14:30		1	0.109	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:38	4/13/21 10:38		2	46.3	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/21 11:41	4/6/21 11:41			489.90	uS/cm			FA
pH	4/6/21 11:41	4/6/21 11:41			7.23	SU			FA
Temperature	4/6/21 11:41	4/6/21 11:41			19.38	C			FA
Turbidity	4/6/21 11:41	4/6/21 11:41			0.57	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 11:43

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BB06629

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06634	Iron, Total	mg/L	0.000485	0.0176	0.2	0.340	0.341	0.205	0.170 to 0.230	98.0	70.0 to 130	0.294	20.0
BB06634	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.154	0.150	0.103	0.0850 to 0.115	100	70.0 to 130	2.75	20.0
BB06634	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.199	0.201	0.0970	0.0850 to 0.115	95.4	70.0 to 130	0.974	20.0
BB06634	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0960	0.0945	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BB06634	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0965	0.0992	0.100	0.0850 to 0.115	96.5	70.0 to 130	2.78	20.0
BB06637	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.192	0.196	0.106	0.0850 to 0.115	106	70.0 to 130	2.24	20.0
BB06631	Mercury, Total by CVAA	mg/L	0.0000203	0.000500	0.004	0.00416	0.00404	0.00406	0.00340 to 0.00460	104	70.0 to 130	2.93	20.0
BB06634	Boron, Total	mg/L	0.00929	0.0650	1.00	1.02	1.03	0.999	0.850 to 1.15	98.9	70.0 to 130	0.976	20.0
BB06634	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0996	0.0969	0.0974	0.0850 to 0.115	99.6	70.0 to 130	2.73	20.0
BB06634	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0918	0.0894	0.0906	0.0850 to 0.115	91.8	70.0 to 130	2.57	20.0
BB06634	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0967	0.0966	0.0983	0.0850 to 0.115	96.7	70.0 to 130	0.0720	20.0
BB06634	Potassium, Total	mg/L	-0.00859	0.367	10.0	10.5	10.5	10.3	8.50 to 11.5	99.1	70.0 to 130	0.0297	20.0
BB06634	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0952	0.0929	0.0935	0.0850 to 0.115	95.2	70.0 to 130	2.49	20.0
BB06637	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.646	0.643	0.202	0.170 to 0.230	97.5	70.0 to 130	0.465	20.0
BB06634	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.104	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	0.271	20.0
BB06634	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.217	0.219	0.199	0.170 to 0.230	108	70.0 to 130	0.917	20.0
BB06634	Calcium, Total	mg/L	-0.00300	0.152	5.00	36.5	36.6	5.12	4.25 to 5.75	96.0	70.0 to 130	0.274	20.0
BB06634	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0962	0.0938	0.101	0.0850 to 0.115	96.2	70.0 to 130	2.54	20.0
BB06634	Magnesium, Total	mg/L	0.000413	0.0462	5.00	20.0	20.1	5.14	4.25 to 5.75	100	70.0 to 130	0.499	20.0
BB06634	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0963	0.0978	0.0969	0.0850 to 0.115	95.5	70.0 to 130	1.51	20.0
BB06634	Sodium, Total	mg/L	0.00309	0.0660	5.00	37.0	36.7	4.94	4.25 to 5.75	60.0	70.0 to 130	0.814	20.0
BB06634	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0964	0.0955	0.0957	0.0850 to 0.115	96.4	70.0 to 130	1.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 11:43

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BB06629

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06631	Solids, Dissolved	mg/L	-1.00	25.0			139	49.0	40.0 to 60.0			1.42	5.00
BB06631	Chloride	mg/L	-0.0433	1.00	10.0	26.9	17.4	10.1	9.00 to 11.0	95.0	80.0 to 120	0.00	20.0
BB06631	Fluoride	mg/L	0.0409	0.100	2.50	2.70	0.0834	2.60	2.25 to 2.75	105	80.0 to 120	10.3	20.0
BB06631	Sulfate	mg/L	-0.358	1.00	20.0	36.7	17.8	18.4	18.0 to 22.0	92.0	80.0 to 120	2.77	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP
Collected: 4/6/21 13:06
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06630

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 11:57		1.015	1.46	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 11:57		1.015	34.3	mg/L	0.070035	0.406	
* Iron, Total	4/13/21 13:00	4/15/21 11:57		1.015	0.0126	mg/L	0.008120	0.0406	J
* Lithium, Total	4/13/21 13:00	4/15/21 11:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 14:39		10.15	41.3	mg/L	0.21315	4.06	
* Sodium, Total	4/13/21 13:00	4/15/21 11:57		1.015	27.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:43		1.015	0.0111	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 12:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 12:44		1.015	0.00220	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 12:44		1.015	0.0353	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 12:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 12:44		1.015	0.000305	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 12:44		1.015	0.00163	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 12:44		1.015	4.56	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 12:44		1.015	0.00624	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 12:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 14:34		1.015	0.00746	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 14:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	176	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	309	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP
Collected: 4/6/21 13:06
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06630

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	175	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	1.40	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:29	4/8/21 12:29		8	58.7	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:31	4/8/21 14:31		1	0.105	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:39	4/13/21 10:39		1	33.5	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/21 13:03	4/6/21 13:03			593.51	uS/cm			FA
pH	4/6/21 13:03	4/6/21 13:03			7.89	SU			FA
Temperature	4/6/21 13:03	4/6/21 13:03			20.47	C			FA
Turbidity	4/6/21 13:03	4/6/21 13:03			0.71	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/6/21 13:06
Customer ID:
Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BB06630

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06634	Iron, Total	mg/L	0.000485	0.0176	0.2	0.340	0.341	0.205	0.170 to 0.230	98.0	70.0 to 130	0.294	20.0
BB06634	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.154	0.150	0.103	0.0850 to 0.115	100	70.0 to 130	2.75	20.0
BB06631	Mercury, Total by CVAA	mg/L	0.0000203	0.000500	0.004	0.00416	0.00404	0.00406	0.00340 to 0.00460	104	70.0 to 130	2.93	20.0
BB06634	Boron, Total	mg/L	0.00929	0.0650	1.00	1.02	1.03	0.999	0.850 to 1.15	98.9	70.0 to 130	0.976	20.0
BB06634	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0996	0.0969	0.0974	0.0850 to 0.115	99.6	70.0 to 130	2.73	20.0
BB06634	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.104	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	0.271	20.0
BB06634	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.217	0.219	0.199	0.170 to 0.230	108	70.0 to 130	0.917	20.0
BB06634	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0918	0.0894	0.0906	0.0850 to 0.115	91.8	70.0 to 130	2.57	20.0
BB06634	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0967	0.0966	0.0983	0.0850 to 0.115	96.7	70.0 to 130	0.0720	20.0
BB06634	Potassium, Total	mg/L	-0.00859	0.367	10.0	10.5	10.5	10.3	8.50 to 11.5	99.1	70.0 to 130	0.0297	20.0
BB06634	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0952	0.0929	0.0935	0.0850 to 0.115	95.2	70.0 to 130	2.49	20.0
BB06637	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.646	0.643	0.202	0.170 to 0.230	97.5	70.0 to 130	0.465	20.0
BB06634	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.199	0.201	0.0970	0.0850 to 0.115	95.4	70.0 to 130	0.974	20.0
BB06634	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0960	0.0945	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BB06634	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0965	0.0992	0.100	0.0850 to 0.115	96.5	70.0 to 130	2.78	20.0
BB06637	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.192	0.196	0.106	0.0850 to 0.115	106	70.0 to 130	2.24	20.0
BB06634	Calcium, Total	mg/L	-0.00300	0.152	5.00	36.5	36.6	5.12	4.25 to 5.75	96.0	70.0 to 130	0.274	20.0
BB06634	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0962	0.0938	0.101	0.0850 to 0.115	96.2	70.0 to 130	2.54	20.0
BB06634	Magnesium, Total	mg/L	0.000413	0.0462	5.00	20.0	20.1	5.14	4.25 to 5.75	100	70.0 to 130	0.499	20.0
BB06634	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0963	0.0978	0.0969	0.0850 to 0.115	95.5	70.0 to 130	1.51	20.0
BB06634	Sodium, Total	mg/L	0.00309	0.0660	5.00	37.0	36.7	4.94	4.25 to 5.75	60.0	70.0 to 130	0.814	20.0
BB06634	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0964	0.0955	0.0957	0.0850 to 0.115	96.4	70.0 to 130	1.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 13:06

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BB06630

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06631	Solids, Dissolved	mg/L	-1.00	25.0			139	49.0	40.0 to 60.0			1.42	5.00
BB06631	Chloride	mg/L	-0.0433	1.00	10.0	26.9	17.4	10.1	9.00 to 11.0	95.0	80.0 to 120	0.00	20.0
BB06631	Fluoride	mg/L	0.0409	0.100	2.50	2.70	0.0834	2.60	2.25 to 2.75	105	80.0 to 120	10.3	20.0
BB06631	Sulfate	mg/L	-0.358	1.00	20.0	36.7	17.8	18.4	18.0 to 22.0	92.0	80.0 to 120	2.77	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 4/6/21 15:06
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06631

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:01		1.015	0.214	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 12:01		1.015	25.9	mg/L	0.070035	0.406	
* Iron, Total	4/13/21 13:00	4/15/21 12:01		1.015	0.00879	mg/L	0.008120	0.0406	J
* Lithium, Total	4/13/21 13:00	4/15/21 12:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:01		1.015	13.0	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:01		1.015	7.75	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:46		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 12:48		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 12:48		1.015	0.000159	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 12:48		1.015	0.0151	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 12:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 12:48		1.015	0.000362	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 12:48		1.015	0.00355	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 12:48		1.015	0.725	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 12:48		1.015	0.000516	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 12:48		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 14:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/9/21 09:58	4/9/21 14:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	97.6	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	143	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 4/6/21 15:06
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06631

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	97.5	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.10	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:21	4/8/21 12:21		1	17.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:32	4/8/21 14:32		1	0.0752	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 10:31	4/13/21 10:31		1	18.3	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/21 15:02	4/6/21 15:02			236.30	uS/cm			FA
pH	4/6/21 15:02	4/6/21 15:02			6.26	SU			FA
Temperature	4/6/21 15:02	4/6/21 15:02			19.61	C			FA
Turbidity	4/6/21 15:02	4/6/21 15:02			2.62	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 15:06

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BB06631

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06631	Mercury, Total by CVAA	mg/L	0.000203	0.000500	0.004	0.00416	0.00404	0.00406	0.00340 to 0.00460	104	70.0 to 130	2.93	20.0
BB06634	Boron, Total	mg/L	0.00929	0.0650	1.00	1.02	1.03	0.999	0.850 to 1.15	98.9	70.0 to 130	0.976	20.0
BB06634	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0996	0.0969	0.0974	0.0850 to 0.115	99.6	70.0 to 130	2.73	20.0
BB06634	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.199	0.201	0.0970	0.0850 to 0.115	95.4	70.0 to 130	0.974	20.0
BB06634	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0960	0.0945	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BB06634	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0965	0.0992	0.100	0.0850 to 0.115	96.5	70.0 to 130	2.78	20.0
BB06637	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.192	0.196	0.106	0.0850 to 0.115	106	70.0 to 130	2.24	20.0
BB06634	Iron, Total	mg/L	0.000485	0.0176	0.2	0.340	0.341	0.205	0.170 to 0.230	98.0	70.0 to 130	0.294	20.0
BB06634	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.154	0.150	0.103	0.0850 to 0.115	100	70.0 to 130	2.75	20.0
BB06634	Calcium, Total	mg/L	-0.00300	0.152	5.00	36.5	36.6	5.12	4.25 to 5.75	96.0	70.0 to 130	0.274	20.0
BB06634	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0962	0.0938	0.101	0.0850 to 0.115	96.2	70.0 to 130	2.54	20.0
BB06634	Magnesium, Total	mg/L	0.000413	0.0462	5.00	20.0	20.1	5.14	4.25 to 5.75	100	70.0 to 130	0.499	20.0
BB06634	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0963	0.0978	0.0969	0.0850 to 0.115	95.5	70.0 to 130	1.51	20.0
BB06634	Sodium, Total	mg/L	0.00309	0.0660	5.00	37.0	36.7	4.94	4.25 to 5.75	60.0	70.0 to 130	0.814	20.0
BB06634	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0964	0.0955	0.0957	0.0850 to 0.115	96.4	70.0 to 130	1.00	20.0
BB06634	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0918	0.0894	0.0906	0.0850 to 0.115	91.8	70.0 to 130	2.57	20.0
BB06634	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0967	0.0966	0.0983	0.0850 to 0.115	96.7	70.0 to 130	0.0720	20.0
BB06634	Potassium, Total	mg/L	-0.00859	0.367	10.0	10.5	10.5	10.3	8.50 to 11.5	99.1	70.0 to 130	0.0297	20.0
BB06634	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0952	0.0929	0.0935	0.0850 to 0.115	95.2	70.0 to 130	2.49	20.0
BB06637	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.646	0.643	0.202	0.170 to 0.230	97.5	70.0 to 130	0.465	20.0
BB06634	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.104	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	0.271	20.0
BB06634	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.217	0.219	0.199	0.170 to 0.230	108	70.0 to 130	0.917	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 15:06

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BB06631

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06631	Solids, Dissolved	mg/L	-1.00	25.0			139	49.0	40.0 to 60.0			1.42	5.00
BB06631	Chloride	mg/L	-0.0433	1.00	10.0	26.9	17.4	10.1	9.00 to 11.0	95.0	80.0 to 120	0.00	20.0
BB06631	Fluoride	mg/L	0.0409	0.100	2.50	2.70	0.0834	2.60	2.25 to 2.75	105	80.0 to 120	10.3	20.0
BB06631	Sulfate	mg/L	-0.358	1.00	20.0	36.7	17.8	18.4	18.0 to 22.0	92.0	80.0 to 120	2.77	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP
Collected: 4/7/21 08:43
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06632

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:04		1.015	1.16	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 14:42		10.15	69.3	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 12:04		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/13/21 13:00	4/15/21 12:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:04		1.015	33.5	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:04		1.015	21.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 12:51		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 12:51		1.015	0.000148	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 12:51		1.015	0.0177	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 12:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 12:51		1.015	0.000300	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 12:51		1.015	0.00202	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 12:51		1.015	1.13	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 12:51		1.015	0.00357	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 12:51		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 14:41		1.015	0.00359	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/14/21 14:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	176	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	406	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP
Collected: 4/7/21 08:43
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06632

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	175	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	1.68	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:47	4/8/21 12:47		4	40.3	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:44	4/8/21 14:44		1	0.0741	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:24	4/13/21 11:24		8	124	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/7/21 08:40	4/7/21 08:40			617.65	uS/cm			FA
pH	4/7/21 08:40	4/7/21 08:40			7.57	SU			FA
Temperature	4/7/21 08:40	4/7/21 08:40			17.08	C			FA
Turbidity	4/7/21 08:40	4/7/21 08:40			0.73	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/7/21 08:43
Customer ID:
Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BB06632

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BB06634	Boron, Total	mg/L	0.00929	0.0650	1.00	1.02	1.03	0.999	0.850 to 1.15	98.9	70.0 to 130	0.976	20.0
BB06634	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0996	0.0969	0.0974	0.0850 to 0.115	99.6	70.0 to 130	2.73	20.0
BB06634	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.199	0.201	0.0970	0.0850 to 0.115	95.4	70.0 to 130	0.974	20.0
BB06634	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0960	0.0945	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BB06634	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0965	0.0992	0.100	0.0850 to 0.115	96.5	70.0 to 130	2.78	20.0
BB06637	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.192	0.196	0.106	0.0850 to 0.115	106	70.0 to 130	2.24	20.0
BB06634	Iron, Total	mg/L	0.000485	0.0176	0.2	0.340	0.341	0.205	0.170 to 0.230	98.0	70.0 to 130	0.294	20.0
BB06634	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.154	0.150	0.103	0.0850 to 0.115	100	70.0 to 130	2.75	20.0
BB06641	Mercury, Total by CVAA	mg/L	-0.0000448	0.000500	0.004	0.00355	0.00394	0.00347	0.00340 to 0.00460	88.8	70.0 to 130	10.4	20.0
BB06634	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.104	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	0.271	20.0
BB06634	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.217	0.219	0.199	0.170 to 0.230	108	70.0 to 130	0.917	20.0
BB06634	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0918	0.0894	0.0906	0.0850 to 0.115	91.8	70.0 to 130	2.57	20.0
BB06634	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0967	0.0966	0.0983	0.0850 to 0.115	96.7	70.0 to 130	0.0720	20.0
BB06634	Potassium, Total	mg/L	-0.00859	0.367	10.0	10.5	10.5	10.3	8.50 to 11.5	99.1	70.0 to 130	0.0297	20.0
BB06634	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0952	0.0929	0.0935	0.0850 to 0.115	95.2	70.0 to 130	2.49	20.0
BB06637	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.646	0.643	0.202	0.170 to 0.230	97.5	70.0 to 130	0.465	20.0
BB06634	Calcium, Total	mg/L	-0.00300	0.152	5.00	36.5	36.6	5.12	4.25 to 5.75	96.0	70.0 to 130	0.274	20.0
BB06634	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0962	0.0938	0.101	0.0850 to 0.115	96.2	70.0 to 130	2.54	20.0
BB06634	Magnesium, Total	mg/L	0.000413	0.0462	5.00	20.0	20.1	5.14	4.25 to 5.75	100	70.0 to 130	0.499	20.0
BB06634	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0963	0.0978	0.0969	0.0850 to 0.115	95.5	70.0 to 130	1.51	20.0
BB06634	Sodium, Total	mg/L	0.00309	0.0660	5.00	37.0	36.7	4.94	4.25 to 5.75	60.0	70.0 to 130	0.814	20.0
BB06634	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0964	0.0955	0.0957	0.0850 to 0.115	96.4	70.0 to 130	1.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/7/21 08:43

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BB06632

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06641	Chloride	mg/L	-0.00203	1.00	40.0	64.8	23.7	10.1	9.00 to 11.0	106	80.0 to 120	5.64	20.0
BB06641	Solids, Dissolved	mg/L	-1.00	25.0			435	49.0	40.0 to 60.0			0.115	5.00
BB06641	Fluoride	mg/L	0.036	0.100	2.50	2.69	0.070	2.63	2.25 to 2.75	105	80.0 to 120	0.712	20.0
BB06641	Sulfate	mg/L	-0.406	1.00	320	464	163	18.3	18.0 to 22.0	93.8	80.0 to 120	0.612	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP
Collected: 4/7/21 10:58
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06633

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:07		1.015	0.885	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 14:46		10.15	53.3	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 12:07		1.015	0.0143	mg/L	0.008120	0.0406	J
* Lithium, Total	4/13/21 13:00	4/15/21 12:07		1.015	0.0100	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/13/21 13:00	4/15/21 12:07		1.015	21.4	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:07		1.015	10.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:53		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 12:55		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 12:55		1.015	0.000148	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 12:55		1.015	0.0270	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 12:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 12:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 12:55		1.015	0.000278	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 12:55		1.015	0.0000962	mg/L	0.000068	0.000203	J
* Lead, Total	4/14/21 13:48	4/16/21 12:55		1.015	0.000140	mg/L	0.000068	0.000203	J
* Molybdenum, Total	4/14/21 13:48	4/16/21 12:55		1.015	0.0562	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 12:55		1.015	2.81	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 12:55		1.015	0.00124	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 12:55		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 12:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 14:45		1.015	0.000301	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/14/21 14:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	178	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	256	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP
Collected: 4/7/21 10:58
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06633

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	178	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.61	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:40	4/8/21 12:40		1	18.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:45	4/8/21 14:45		1	0.0874	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:25	4/13/21 11:25		1	38.7	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/7/21 10:55	4/7/21 10:55			443.83	uS/cm			FA
pH	4/7/21 10:55	4/7/21 10:55			7.47	SU			FA
Temperature	4/7/21 10:55	4/7/21 10:55			19.80	C			FA
Turbidity	4/7/21 10:55	4/7/21 10:55			2.53	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/7/21 10:58
Customer ID:
Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BB06633

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06634	Boron, Total	mg/L	0.00929	0.0650	1.00	1.02	1.03	0.999	0.850 to 1.15	98.9	70.0 to 130	0.976	20.0
BB06634	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0996	0.0969	0.0974	0.0850 to 0.115	99.6	70.0 to 130	2.73	20.0
BB06634	Iron, Total	mg/L	0.000485	0.0176	0.2	0.340	0.341	0.205	0.170 to 0.230	98.0	70.0 to 130	0.294	20.0
BB06634	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.154	0.150	0.103	0.0850 to 0.115	100	70.0 to 130	2.75	20.0
BB06641	Mercury, Total by CVAA	mg/L	-0.0000448	0.000500	0.004	0.00355	0.00394	0.00347	0.00340 to 0.00460	88.8	70.0 to 130	10.4	20.0
BB06634	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.104	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	0.271	20.0
BB06634	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.217	0.219	0.199	0.170 to 0.230	108	70.0 to 130	0.917	20.0
BB06634	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.199	0.201	0.0970	0.0850 to 0.115	95.4	70.0 to 130	0.974	20.0
BB06634	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0960	0.0945	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BB06634	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0965	0.0992	0.100	0.0850 to 0.115	96.5	70.0 to 130	2.78	20.0
BB06637	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.192	0.196	0.106	0.0850 to 0.115	106	70.0 to 130	2.24	20.0
BB06634	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0918	0.0894	0.0906	0.0850 to 0.115	91.8	70.0 to 130	2.57	20.0
BB06634	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0967	0.0966	0.0983	0.0850 to 0.115	96.7	70.0 to 130	0.0720	20.0
BB06634	Potassium, Total	mg/L	-0.00859	0.367	10.0	10.5	10.5	10.3	8.50 to 11.5	99.1	70.0 to 130	0.0297	20.0
BB06634	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0952	0.0929	0.0935	0.0850 to 0.115	95.2	70.0 to 130	2.49	20.0
BB06637	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.646	0.643	0.202	0.170 to 0.230	97.5	70.0 to 130	0.465	20.0
BB06634	Calcium, Total	mg/L	-0.00300	0.152	5.00	36.5	36.6	5.12	4.25 to 5.75	96.0	70.0 to 130	0.274	20.0
BB06634	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0962	0.0938	0.101	0.0850 to 0.115	96.2	70.0 to 130	2.54	20.0
BB06634	Magnesium, Total	mg/L	0.000413	0.0462	5.00	20.0	20.1	5.14	4.25 to 5.75	100	70.0 to 130	0.499	20.0
BB06634	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0963	0.0978	0.0969	0.0850 to 0.115	95.5	70.0 to 130	1.51	20.0
BB06634	Sodium, Total	mg/L	0.00309	0.0660	5.00	37.0	36.7	4.94	4.25 to 5.75	60.0	70.0 to 130	0.814	20.0
BB06634	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0964	0.0955	0.0957	0.0850 to 0.115	96.4	70.0 to 130	1.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/7/21 10:58

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BB06633

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06641	Solids, Dissolved	mg/L	-1.00	25.0			435	49.0	40.0 to 60.0			0.115	5.00
BB06641	Chloride	mg/L	-0.00203	1.00	40.0	64.8	23.7	10.1	9.00 to 11.0	106	80.0 to 120	5.64	20.0
BB06641	Fluoride	mg/L	0.036	0.100	2.50	2.69	0.070	2.63	2.25 to 2.75	105	80.0 to 120	0.712	20.0
BB06641	Sulfate	mg/L	-0.406	1.00	320	464	163	18.3	18.0 to 22.0	93.8	80.0 to 120	0.612	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 4/5/21 10:40
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06634

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:11		1.015	0.0314	mg/L	0.030000	0.1015	J
* Calcium, Total	4/13/21 13:00	4/15/21 12:11		1.015	31.7	mg/L	0.070035	0.406	
* Iron, Total	4/13/21 13:00	4/15/21 12:11		1.015	0.144	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 12:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:11		1.015	15.0	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:11		1.015	34.0	mg/L	0.03045	0.406	RA
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 12:56		1.015	0.111	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 12:58		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 12:58		1.015	0.00234	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 12:58		1.015	0.104	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 12:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 12:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 12:58		1.015	0.000295	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 12:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 12:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 12:58		1.015	0.000821	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 12:58		1.015	0.551	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 12:58		1.015	0.0537	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 12:58		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 12:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 14:49		1.015	0.0568	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/14/21 14:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	211	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	211	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 4/5/21 10:40
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06634

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	209	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	1.39	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:42	4/8/21 12:42		1	9.25	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:46	4/8/21 14:46		1	0.150	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:27	4/13/21 11:27		1	15.1	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/5/21 10:37	4/5/21 10:37			403.52	uS/cm			FA
pH	4/5/21 10:37	4/5/21 10:37			7.80	SU			FA
Temperature	4/5/21 10:37	4/5/21 10:37			19.39	C			FA
Turbidity	4/5/21 10:37	4/5/21 10:37			0.61	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/5/21 10:40
Customer ID:
Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BB06634

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06634	Boron, Total	mg/L	0.00929	0.0650	1.00	1.02	1.03	0.999	0.850 to 1.15	98.9	70.0 to 130	0.976	20.0
BB06634	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0996	0.0969	0.0974	0.0850 to 0.115	99.6	70.0 to 130	2.73	20.0
BB06634	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.199	0.201	0.0970	0.0850 to 0.115	95.4	70.0 to 130	0.974	20.0
BB06634	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0960	0.0945	0.100	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BB06634	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0965	0.0992	0.100	0.0850 to 0.115	96.5	70.0 to 130	2.78	20.0
BB06637	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.192	0.196	0.106	0.0850 to 0.115	106	70.0 to 130	2.24	20.0
BB06634	Iron, Total	mg/L	0.000485	0.0176	0.2	0.340	0.341	0.205	0.170 to 0.230	98.0	70.0 to 130	0.294	20.0
BB06634	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.154	0.150	0.103	0.0850 to 0.115	100	70.0 to 130	2.75	20.0
BB06641	Mercury, Total by CVAA	mg/L	-0.0000448	0.000500	0.004	0.00355	0.00394	0.00347	0.00340 to 0.00460	88.8	70.0 to 130	10.4	20.0
BB06634	Calcium, Total	mg/L	-0.00300	0.152	5.00	36.5	36.6	5.12	4.25 to 5.75	96.0	70.0 to 130	0.274	20.0
BB06634	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0962	0.0938	0.101	0.0850 to 0.115	96.2	70.0 to 130	2.54	20.0
BB06634	Magnesium, Total	mg/L	0.000413	0.0462	5.00	20.0	20.1	5.14	4.25 to 5.75	100	70.0 to 130	0.499	20.0
BB06634	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0963	0.0978	0.0969	0.0850 to 0.115	95.5	70.0 to 130	1.51	20.0
BB06634	Sodium, Total	mg/L	0.00309	0.0660	5.00	37.0	36.7	4.94	4.25 to 5.75	60.0	70.0 to 130	0.814	20.0
BB06634	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0964	0.0955	0.0957	0.0850 to 0.115	96.4	70.0 to 130	1.00	20.0
BB06634	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.104	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	0.271	20.0
BB06634	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.217	0.219	0.199	0.170 to 0.230	108	70.0 to 130	0.917	20.0
BB06634	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0918	0.0894	0.0906	0.0850 to 0.115	91.8	70.0 to 130	2.57	20.0
BB06634	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0967	0.0966	0.0983	0.0850 to 0.115	96.7	70.0 to 130	0.0720	20.0
BB06634	Potassium, Total	mg/L	-0.00859	0.367	10.0	10.5	10.5	10.3	8.50 to 11.5	99.1	70.0 to 130	0.0297	20.0
BB06634	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0952	0.0929	0.0935	0.0850 to 0.115	95.2	70.0 to 130	2.49	20.0
BB06637	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.646	0.643	0.202	0.170 to 0.230	97.5	70.0 to 130	0.465	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 10:40

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BB06634

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06641	Solids, Dissolved	mg/L	-1.00	25.0			435	49.0	40.0 to 60.0			0.115	5.00
BB06641	Chloride	mg/L	-0.00203	1.00	40.0	64.8	23.7	10.1	9.00 to 11.0	106	80.0 to 120	5.64	20.0
BB06641	Fluoride	mg/L	0.036	0.100	2.50	2.69	0.070	2.63	2.25 to 2.75	105	80.0 to 120	0.712	20.0
BB06641	Sulfate	mg/L	-0.406	1.00	320	464	163	18.3	18.0 to 22.0	93.8	80.0 to 120	0.612	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP
Collected: 4/5/21 12:15
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06635

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:28		1.015	0.0854	mg/L	0.030000	0.1015	J
* Calcium, Total	4/13/21 13:00	4/15/21 12:28		1.015	40.0	mg/L	0.070035	0.406	
* Iron, Total	4/13/21 13:00	4/15/21 12:28		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/13/21 13:00	4/15/21 12:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:28		1.015	21.7	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:28		1.015	3.36	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 13:20		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 13:20		1.015	0.000311	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 13:20		1.015	0.0142	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 13:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 13:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 13:20		1.015	0.000275	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 13:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 13:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 13:20		1.015	0.000248	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 13:20		1.015	0.231	mg/L	0.169505	0.5075	J
* Manganese, Total	4/14/21 13:48	4/16/21 13:20		1.015	0.00324	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 13:20		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 13:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 14:53		1.015	0.00335	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/9/21 09:58	4/14/21 14:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	178	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	184	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP
Collected: 4/5/21 12:15
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06635

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	177	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	1.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:43	4/8/21 12:43		1	3.88	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:47	4/8/21 14:47		1	0.0627	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:28	4/13/21 11:28		1	11.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/5/21 12:11	4/5/21 12:11			339.31	uS/cm			FA
pH	4/5/21 12:11	4/5/21 12:11			6.93	SU			FA
Temperature	4/5/21 12:11	4/5/21 12:11			20.44	C			FA
Turbidity	4/5/21 12:11	4/5/21 12:11			0.62	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/5/21 12:15
Customer ID:
Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BB06635

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BB06644	Potassium, Total	mg/L	-0.00859	0.367	10.0	11.5	11.7	10.3	8.50 to 11.5	99.3	70.0 to 130	1.53	20.0	
BB06644	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0941	0.0937	0.0957	0.0850 to 0.115	94.1	70.0 to 130	0.358	20.0	
BB06644	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.100	0.103	0.102	0.0850 to 0.115	99.4	70.0 to 130	2.44	20.0	
BB06644	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.182	0.181	0.103	0.0850 to 0.115	101	70.0 to 130	0.208	20.0	
BB06637	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.192	0.196	0.106	0.0850 to 0.115	106	70.0 to 130	2.24	20.0	
BB06644	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.132	0.131	0.0970	0.0850 to 0.115	94.4	70.0 to 130	0.922	20.0	
BB06644	Magnesium, Total	mg/L	0.000413	0.0462	5.00	35.8	35.7	5.14	4.25 to 5.75	94.0	70.0 to 130	0.280	20.0	
BB06644	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0991	0.0978	0.0974	0.0850 to 0.115	99.1	70.0 to 130	1.35	20.0	
BB06637	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.646	0.643	0.202	0.170 to 0.230	97.5	70.0 to 130	0.465	20.0	
BB06644	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0900	0.0915	0.0906	0.0850 to 0.115	90.0	70.0 to 130	1.64	20.0	
BB06644	Calcium, Total	mg/L	-0.00300	0.152	5.00	77.4	78.0	5.12	4.25 to 5.75	86.0	70.0 to 130	0.772	20.0	
BB06641	Mercury, Total by CVAA	mg/L	-0.0000448	0.000500	0.004	0.00355	0.00394	0.00347	0.00340 to 0.00460	88.8	70.0 to 130	10.4	20.0	
BB06644	Boron, Total	mg/L	0.00929	0.0650	1.00	2.72	2.74	0.999	0.850 to 1.15	96.0	70.0 to 130	0.733	20.0	
BB06644	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0981	0.0966	0.0983	0.0850 to 0.115	98.1	70.0 to 130	1.57	20.0	
BB06644	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0965	0.0963	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.257	20.0	
BB06644	Iron, Total	mg/L	0.000485	0.0176	0.2	0.269	0.274	0.205	0.170 to 0.230	96.6	70.0 to 130	1.84	20.0	
BB06644	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0983	0.0981	0.100	0.0850 to 0.115	98.3	70.0 to 130	0.210	20.0	
BB06644	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.226	0.231	0.199	0.170 to 0.230	113	70.0 to 130	2.19	20.0	
BB06644	Sodium, Total	mg/L	0.00309	0.0660	5.00	29.0	29.2	4.94	4.25 to 5.75	106	70.0 to 130	0.687	20.0	
BB06644	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0985	0.0974	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.20	20.0	
BB06644	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.105	0.104	0.0969	0.0850 to 0.115	96.9	70.0 to 130	0.906	20.0	
BB06644	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0967	0.0951	0.0935	0.0850 to 0.115	96.7	70.0 to 130	1.70	20.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 12:15

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BB06635

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06641	Solids, Dissolved	mg/L	-1.00	25.0			435	49.0	40.0 to 60.0			0.115	5.00
BB06641	Chloride	mg/L	-0.00203	1.00	40.0	64.8	23.7	10.1	9.00 to 11.0	106	80.0 to 120	5.64	20.0
BB06641	Fluoride	mg/L	0.036	0.100	2.50	2.69	0.070	2.63	2.25 to 2.75	105	80.0 to 120	0.712	20.0
BB06641	Sulfate	mg/L	-0.406	1.00	320	464	163	18.3	18.0 to 22.0	93.8	80.0 to 120	0.612	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 4/5/21 14:15
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06636

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:31		1.015	0.271	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 14:56		10.15	40.1	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 12:31		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/13/21 13:00	4/15/21 12:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:31		1.015	21.0	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:31		1.015	5.36	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:03		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 13:23		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 13:23		1.015	0.000237	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 13:23		1.015	0.00832	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 13:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 13:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 13:23		1.015	0.000743	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 13:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 13:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 13:23		1.015	0.000330	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 13:23		1.015	0.219	mg/L	0.169505	0.5075	J
* Manganese, Total	4/14/21 13:48	4/16/21 13:23		1.015	0.000234	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 13:23		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 13:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 14:56		1.015	0.000560	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/14/21 14:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	127	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	217	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 4/5/21 14:15
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06636

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	126	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.96	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:44	4/8/21 12:44		1	7.09	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:48	4/8/21 14:48		1	0.0634	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:29	4/13/21 11:29		2	50.1	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/5/21 14:11	4/5/21 14:11			368.81	uS/cm			FA
pH	4/5/21 14:11	4/5/21 14:11			7.63	SU			FA
Temperature	4/5/21 14:11	4/5/21 14:11			20.65	C			FA
Turbidity	4/5/21 14:11	4/5/21 14:11			0.7	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 14:15

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BB06636

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06644	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.100	0.103	0.102	0.0850 to 0.115	99.4	70.0 to 130	2.44	20.0
BB06644	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.182	0.181	0.103	0.0850 to 0.115	101	70.0 to 130	0.208	20.0
BB06644	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0985	0.0974	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.20	20.0
BB06644	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.105	0.104	0.0969	0.0850 to 0.115	96.9	70.0 to 130	0.906	20.0
BB06644	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0967	0.0951	0.0935	0.0850 to 0.115	96.7	70.0 to 130	1.70	20.0
BB06644	Potassium, Total	mg/L	-0.00859	0.367	10.0	11.5	11.7	10.3	8.50 to 11.5	99.3	70.0 to 130	1.53	20.0
BB06644	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0941	0.0937	0.0957	0.0850 to 0.115	94.1	70.0 to 130	0.358	20.0
BB06637	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.646	0.643	0.202	0.170 to 0.230	97.5	70.0 to 130	0.465	20.0
BB06644	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0900	0.0915	0.0906	0.0850 to 0.115	90.0	70.0 to 130	1.64	20.0
BB06644	Calcium, Total	mg/L	-0.00300	0.152	5.00	77.4	78.0	5.12	4.25 to 5.75	86.0	70.0 to 130	0.772	20.0
BB06644	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.226	0.231	0.199	0.170 to 0.230	113	70.0 to 130	2.19	20.0
BB06644	Sodium, Total	mg/L	0.00309	0.0660	5.00	29.0	29.2	4.94	4.25 to 5.75	106	70.0 to 130	0.687	20.0
BB06644	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0981	0.0966	0.0983	0.0850 to 0.115	98.1	70.0 to 130	1.57	20.0
BB06644	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0965	0.0963	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.257	20.0
BB06644	Iron, Total	mg/L	0.000485	0.0176	0.2	0.269	0.274	0.205	0.170 to 0.230	96.6	70.0 to 130	1.84	20.0
BB06644	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0983	0.0981	0.100	0.0850 to 0.115	98.3	70.0 to 130	0.210	20.0
BB06637	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.192	0.196	0.106	0.0850 to 0.115	106	70.0 to 130	2.24	20.0
BB06644	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.132	0.131	0.0970	0.0850 to 0.115	94.4	70.0 to 130	0.922	20.0
BB06644	Magnesium, Total	mg/L	0.000413	0.0462	5.00	35.8	35.7	5.14	4.25 to 5.75	94.0	70.0 to 130	0.280	20.0
BB06644	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0991	0.0978	0.0974	0.0850 to 0.115	99.1	70.0 to 130	1.35	20.0
BB06641	Mercury, Total by CVAA	mg/L	-0.0000448	0.000500	0.004	0.00355	0.00394	0.00347	0.00340 to 0.00460	88.8	70.0 to 130	10.4	20.0
BB06644	Boron, Total	mg/L	0.00929	0.0650	1.00	2.72	2.74	0.999	0.850 to 1.15	96.0	70.0 to 130	0.733	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 14:15

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BB06636

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06641	Solids, Dissolved	mg/L	-1.00	25.0			435	49.0	40.0 to 60.0			0.115	5.00
BB06641	Chloride	mg/L	-0.00203	1.00	40.0	64.8	23.7	10.1	9.00 to 11.0	106	80.0 to 120	5.64	20.0
BB06641	Fluoride	mg/L	0.036	0.100	2.50	2.69	0.070	2.63	2.25 to 2.75	105	80.0 to 120	0.712	20.0
BB06641	Sulfate	mg/L	-0.406	1.00	320	464	163	18.3	18.0 to 22.0	93.8	80.0 to 120	0.612	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 4/5/21 15:45
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06637

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:34		1.015	0.427	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 15:01		10.15	64.8	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 12:34		1.015	0.573	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 12:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:34		1.015	36.6	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:34		1.015	11.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:07		1.015	0.451	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 13:27		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 13:27		1.015	0.00276	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 13:27		1.015	0.0751	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 13:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 13:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 13:27		1.015	0.000278	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 13:27		1.015	0.000113	mg/L	0.000068	0.000203	J
* Lead, Total	4/14/21 13:48	4/16/21 13:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 13:27		1.015	0.000366	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 13:27		1.015	0.281	mg/L	0.169505	0.5075	J
* Manganese, Total	4/14/21 13:48	4/16/21 13:27		1.015	0.0767	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 13:27		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 13:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:00		1.015	0.0854	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/14/21 14:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	213	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	372	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 4/5/21 15:45
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06637

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	212	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.74	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:45	4/8/21 12:45		1	19.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:50	4/8/21 14:50		1	0.0733	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:30	4/13/21 11:30		8	96.8	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/5/21 15:44	4/5/21 15:44			575.48	uS/cm			FA
pH	4/5/21 15:44	4/5/21 15:44			6.88	SU			FA
Temperature	4/5/21 15:44	4/5/21 15:44			22.00	C			FA
Turbidity	4/5/21 15:44	4/5/21 15:44			1.08	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 15:45

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BB06637

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06644	Potassium, Total	mg/L	-0.00859	0.367	10.0	11.5	11.7	10.3	8.50 to 11.5	99.3	70.0 to 130	1.53	20.0
BB06644	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0941	0.0937	0.0957	0.0850 to 0.115	94.1	70.0 to 130	0.358	20.0
BB06644	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.100	0.103	0.102	0.0850 to 0.115	99.4	70.0 to 130	2.44	20.0
BB06644	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.182	0.181	0.103	0.0850 to 0.115	101	70.0 to 130	0.208	20.0
BB06637	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.646	0.643	0.202	0.170 to 0.230	97.5	70.0 to 130	0.465	20.0
BB06644	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0900	0.0915	0.0906	0.0850 to 0.115	90.0	70.0 to 130	1.64	20.0
BB06644	Calcium, Total	mg/L	-0.00300	0.152	5.00	77.4	78.0	5.12	4.25 to 5.75	86.0	70.0 to 130	0.772	20.0
BB06641	Mercury, Total by CVAA	mg/L	-0.0000448	0.000500	0.004	0.00355	0.00394	0.00347	0.00340 to 0.00460	88.8	70.0 to 130	10.4	20.0
BB06644	Boron, Total	mg/L	0.00929	0.0650	1.00	2.72	2.74	0.999	0.850 to 1.15	96.0	70.0 to 130	0.733	20.0
BB06637	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.192	0.196	0.106	0.0850 to 0.115	106	70.0 to 130	2.24	20.0
BB06644	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.132	0.131	0.0970	0.0850 to 0.115	94.4	70.0 to 130	0.922	20.0
BB06644	Magnesium, Total	mg/L	0.000413	0.0462	5.00	35.8	35.7	5.14	4.25 to 5.75	94.0	70.0 to 130	0.280	20.0
BB06644	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0991	0.0978	0.0974	0.0850 to 0.115	99.1	70.0 to 130	1.35	20.0
BB06644	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.226	0.231	0.199	0.170 to 0.230	113	70.0 to 130	2.19	20.0
BB06644	Sodium, Total	mg/L	0.00309	0.0660	5.00	29.0	29.2	4.94	4.25 to 5.75	106	70.0 to 130	0.687	20.0
BB06644	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0985	0.0974	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.20	20.0
BB06644	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.105	0.104	0.0969	0.0850 to 0.115	96.9	70.0 to 130	0.906	20.0
BB06644	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0967	0.0951	0.0935	0.0850 to 0.115	96.7	70.0 to 130	1.70	20.0
BB06644	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0981	0.0966	0.0983	0.0850 to 0.115	98.1	70.0 to 130	1.57	20.0
BB06644	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0965	0.0963	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.257	20.0
BB06644	Iron, Total	mg/L	0.000485	0.0176	0.2	0.269	0.274	0.205	0.170 to 0.230	96.6	70.0 to 130	1.84	20.0
BB06644	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0983	0.0981	0.100	0.0850 to 0.115	98.3	70.0 to 130	0.210	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/5/21 15:45

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BB06637

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06641	Solids, Dissolved	mg/L	-1.00	25.0			435	49.0	40.0 to 60.0			0.115	5.00
BB06641	Chloride	mg/L	-0.00203	1.00	40.0	64.8	23.7	10.1	9.00 to 11.0	106	80.0 to 120	5.64	20.0
BB06641	Fluoride	mg/L	0.036	0.100	2.50	2.69	0.070	2.63	2.25 to 2.75	105	80.0 to 120	0.712	20.0
BB06641	Sulfate	mg/L	-0.406	1.00	320	464	163	18.3	18.0 to 22.0	93.8	80.0 to 120	0.612	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP
Collected: 4/6/21 10:37
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06638

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/13/21 13:00	4/15/21 12:38		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/13/21 13:00	4/15/21 15:04		10.15	43.8	mg/L	0.70035	4.06		
* Iron, Total	4/13/21 13:00	4/15/21 12:38		1.015	0.350	mg/L	0.008120	0.0406		
* Lithium, Total	4/13/21 13:00	4/15/21 12:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/13/21 13:00	4/15/21 12:38		1.015	23.6	mg/L	0.021315	0.406		
* Sodium, Total	4/13/21 13:00	4/15/21 12:38		1.015	4.51	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:23		1.015	0.289	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	4/14/21 13:48	4/16/21 13:30		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Arsenic, Total	4/14/21 13:48	4/16/21 13:30		1.015	0.000661	mg/L	0.000068	0.000203		
* Barium, Total	4/14/21 13:48	4/16/21 13:30		1.015	0.0389	mg/L	0.000101	0.000203		
* Beryllium, Total	4/14/21 13:48	4/16/21 13:30		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/14/21 13:48	4/16/21 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/14/21 13:48	4/16/21 13:30		1.015	0.000353	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/14/21 13:48	4/16/21 13:30		1.015	0.000142	mg/L	0.000068	0.000203	J	
* Lead, Total	4/14/21 13:48	4/16/21 13:30		1.015	0.000106	mg/L	0.000068	0.000203	J	
* Molybdenum, Total	4/14/21 13:48	4/16/21 13:30		1.015	0.000329	mg/L	0.000068	0.000203		
* Potassium, Total	4/14/21 13:48	4/16/21 13:30		1.015	0.289	mg/L	0.169505	0.5075	J	
* Manganese, Total	4/14/21 13:48	4/16/21 13:30		1.015	0.0886	mg/L	0.000068	0.000203		
* Selenium, Total	4/14/21 13:48	4/16/21 13:30		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Thallium, Total	4/14/21 13:48	4/16/21 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:23		1.015	0.0993	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	4/9/21 09:58	4/14/21 14:35		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	212	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW								
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	193	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP
Collected: 4/6/21 10:37
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06638

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	211	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.97	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:49	4/8/21 12:49		1	5.06	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:51	4/8/21 14:51		1	0.0794	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:31	4/13/21 11:31		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/21 10:34	4/6/21 10:34			384.43	uS/cm			FA
pH	4/6/21 10:34	4/6/21 10:34			7.50	SU			FA
Temperature	4/6/21 10:34	4/6/21 10:34			19.56	C			FA
Turbidity	4/6/21 10:34	4/6/21 10:34			1.92	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 10:37

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BB06638

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06644	Potassium, Total	mg/L	-0.00859	0.367	10.0	11.5	11.7	10.3	8.50 to 11.5	99.3	70.0 to 130	1.53	20.0
BB06644	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0941	0.0937	0.0957	0.0850 to 0.115	94.1	70.0 to 130	0.358	20.0
BB06644	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.100	0.103	0.102	0.0850 to 0.115	99.4	70.0 to 130	2.44	20.0
BB06644	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.182	0.181	0.103	0.0850 to 0.115	101	70.0 to 130	0.208	20.0
BB06644	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0900	0.0915	0.0906	0.0850 to 0.115	90.0	70.0 to 130	1.64	20.0
BB06644	Calcium, Total	mg/L	-0.00300	0.152	5.00	77.4	78.0	5.12	4.25 to 5.75	86.0	70.0 to 130	0.772	20.0
BB06641	Mercury, Total by CVAA	mg/L	-0.0000448	0.000500	0.004	0.00355	0.00394	0.00347	0.00340 to 0.00460	88.8	70.0 to 130	10.4	20.0
BB06644	Boron, Total	mg/L	0.00929	0.0650	1.00	2.72	2.74	0.999	0.850 to 1.15	96.0	70.0 to 130	0.733	20.0
BB06644	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0981	0.0966	0.0983	0.0850 to 0.115	98.1	70.0 to 130	1.57	20.0
BB06644	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0965	0.0963	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.257	20.0
BB06644	Iron, Total	mg/L	0.000485	0.0176	0.2	0.269	0.274	0.205	0.170 to 0.230	96.6	70.0 to 130	1.84	20.0
BB06644	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0983	0.0981	0.100	0.0850 to 0.115	98.3	70.0 to 130	0.210	20.0
BB06644	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.132	0.131	0.0970	0.0850 to 0.115	94.4	70.0 to 130	0.922	20.0
BB06644	Magnesium, Total	mg/L	0.000413	0.0462	5.00	35.8	35.7	5.14	4.25 to 5.75	94.0	70.0 to 130	0.280	20.0
BB06644	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0991	0.0978	0.0974	0.0850 to 0.115	99.1	70.0 to 130	1.35	20.0
BB06912	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.181	0.183	0.106	0.0850 to 0.115	104	70.0 to 130	1.14	20.0
BB06644	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.226	0.231	0.199	0.170 to 0.230	113	70.0 to 130	2.19	20.0
BB06644	Sodium, Total	mg/L	0.00309	0.0660	5.00	29.0	29.2	4.94	4.25 to 5.75	106	70.0 to 130	0.687	20.0
BB06645	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.201	0.199	0.202	0.170 to 0.230	100	70.0 to 130	1.00	20.0
BB06644	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0985	0.0974	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.20	20.0
BB06644	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.105	0.104	0.0969	0.0850 to 0.115	96.9	70.0 to 130	0.906	20.0
BB06644	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0967	0.0951	0.0935	0.0850 to 0.115	96.7	70.0 to 130	1.70	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 10:37

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BB06638

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06641	Solids, Dissolved	mg/L	-1.00	25.0			435	49.0	40.0 to 60.0			0.115	5.00
BB06641	Chloride	mg/L	-0.00203	1.00	40.0	64.8	23.7	10.1	9.00 to 11.0	106	80.0 to 120	5.64	20.0
BB06641	Fluoride	mg/L	0.036	0.100	2.50	2.69	0.070	2.63	2.25 to 2.75	105	80.0 to 120	0.712	20.0
BB06641	Sulfate	mg/L	-0.406	1.00	320	464	163	18.3	18.0 to 22.0	93.8	80.0 to 120	0.612	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 4/6/21 12:05
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06639

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/13/21 13:00	4/15/21 12:41		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/13/21 13:00	4/15/21 15:08		10.15	78.2	mg/L	0.70035	4.06		
* Iron, Total	4/13/21 13:00	4/15/21 12:41		1.015	0.733	mg/L	0.008120	0.0406		
* Lithium, Total	4/13/21 13:00	4/15/21 12:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/13/21 13:00	4/15/21 12:41		1.015	28.0	mg/L	0.021315	0.406		
* Sodium, Total	4/13/21 13:00	4/15/21 12:41		1.015	7.49	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:27		1.015	0.743	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	4/14/21 13:48	4/16/21 13:34		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Arsenic, Total	4/14/21 13:48	4/16/21 13:34		1.015	0.000441	mg/L	0.000068	0.000203		
* Barium, Total	4/14/21 13:48	4/16/21 13:34		1.015	0.0659	mg/L	0.000101	0.000203		
* Beryllium, Total	4/14/21 13:48	4/16/21 13:34		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/14/21 13:48	4/16/21 13:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/14/21 13:48	4/16/21 13:34		1.015	0.000234	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/14/21 13:48	4/16/21 13:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	4/14/21 13:48	4/16/21 13:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	4/14/21 13:48	4/16/21 13:34		1.015	0.000298	mg/L	0.000068	0.000203		
* Potassium, Total	4/14/21 13:48	4/16/21 13:34		1.015	0.607	mg/L	0.169505	0.5075		
* Manganese, Total	4/14/21 13:48	4/16/21 13:34		1.015	0.0589	mg/L	0.000068	0.000203		
* Selenium, Total	4/14/21 13:48	4/16/21 13:34		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Thallium, Total	4/14/21 13:48	4/16/21 13:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:26		1.015	0.0610	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	4/9/21 09:58	4/14/21 14:37		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	232	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW								
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	342	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 4/6/21 12:05
Customer ID:
Submittal Date: 4/8/21 09:59

Laboratory ID Number: BB06639

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	232	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.61	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:50	4/8/21 12:50		1	3.37	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:52	4/8/21 14:52		1	0.124	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:33	4/13/21 11:33		4	77.5	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/21 12:02	4/6/21 12:02			495.25	uS/cm			FA
pH	4/6/21 12:02	4/6/21 12:02			7.51	SU			FA
Temperature	4/6/21 12:02	4/6/21 12:02			21.08	C			FA
Turbidity	4/6/21 12:02	4/6/21 12:02			1.19	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 12:05

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BB06639

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06644	Potassium, Total	mg/L	-0.00859	0.367	10.0	11.5	11.7	10.3	8.50 to 11.5	99.3	70.0 to 130	1.53	20.0
BB06644	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0941	0.0937	0.0957	0.0850 to 0.115	94.1	70.0 to 130	0.358	20.0
BB06644	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.100	0.103	0.102	0.0850 to 0.115	99.4	70.0 to 130	2.44	20.0
BB06644	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.182	0.181	0.103	0.0850 to 0.115	101	70.0 to 130	0.208	20.0
BB06644	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.132	0.131	0.0970	0.0850 to 0.115	94.4	70.0 to 130	0.922	20.0
BB06644	Magnesium, Total	mg/L	0.000413	0.0462	5.00	35.8	35.7	5.14	4.25 to 5.75	94.0	70.0 to 130	0.280	20.0
BB06644	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0991	0.0978	0.0974	0.0850 to 0.115	99.1	70.0 to 130	1.35	20.0
BB06912	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.181	0.183	0.106	0.0850 to 0.115	104	70.0 to 130	1.14	20.0
BB06644	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0985	0.0974	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.20	20.0
BB06644	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.105	0.104	0.0969	0.0850 to 0.115	96.9	70.0 to 130	0.906	20.0
BB06644	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0967	0.0951	0.0935	0.0850 to 0.115	96.7	70.0 to 130	1.70	20.0
BB06641	Mercury, Total by CVAA	mg/L	-0.0000448	0.000500	0.004	0.00355	0.00394	0.00347	0.00340 to 0.00460	88.8	70.0 to 130	10.4	20.0
BB06644	Boron, Total	mg/L	0.00929	0.0650	1.00	2.72	2.74	0.999	0.850 to 1.15	96.0	70.0 to 130	0.733	20.0
BB06644	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0900	0.0915	0.0906	0.0850 to 0.115	90.0	70.0 to 130	1.64	20.0
BB06644	Calcium, Total	mg/L	-0.00300	0.152	5.00	77.4	78.0	5.12	4.25 to 5.75	86.0	70.0 to 130	0.772	20.0
BB06644	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0981	0.0966	0.0983	0.0850 to 0.115	98.1	70.0 to 130	1.57	20.0
BB06644	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0965	0.0963	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.257	20.0
BB06644	Iron, Total	mg/L	0.000485	0.0176	0.2	0.269	0.274	0.205	0.170 to 0.230	96.6	70.0 to 130	1.84	20.0
BB06644	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0983	0.0981	0.100	0.0850 to 0.115	98.3	70.0 to 130	0.210	20.0
BB06644	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.226	0.231	0.199	0.170 to 0.230	113	70.0 to 130	2.19	20.0
BB06644	Sodium, Total	mg/L	0.00309	0.0660	5.00	29.0	29.2	4.94	4.25 to 5.75	106	70.0 to 130	0.687	20.0
BB06645	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.201	0.199	0.202	0.170 to 0.230	100	70.0 to 130	1.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 12:05

Customer ID:

Delivery Date: 4/8/21 09:59

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BB06639

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06641	Solids, Dissolved	mg/L	-1.00	25.0			435	49.0	40.0 to 60.0			0.115	5.00
BB06641	Chloride	mg/L	-0.00203	1.00	40.0	64.8	23.7	10.1	9.00 to 11.0	106	80.0 to 120	5.64	20.0
BB06641	Fluoride	mg/L	0.036	0.100	2.50	2.69	0.070	2.63	2.25 to 2.75	105	80.0 to 120	0.712	20.0
BB06641	Sulfate	mg/L	-0.406	1.00	320	464	163	18.3	18.0 to 22.0	93.8	80.0 to 120	0.612	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 4/6/21 14:00
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06640

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:45		1.015	0.0327	mg/L	0.030000	0.1015	J
* Calcium, Total	4/13/21 13:00	4/15/21 15:11		10.15	51.1	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 12:45		1.015	0.440	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 12:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:45		1.015	25.9	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:45		1.015	18.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:30		1.015	0.415	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 13:38		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 13:38		1.015	0.00108	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 13:38		1.015	0.0180	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 13:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 13:38		1.015	0.000333	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 13:38		1.015	0.0000945	mg/L	0.000068	0.000203	J
* Lead, Total	4/14/21 13:48	4/16/21 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 13:38		1.015	0.000895	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 13:38		1.015	0.337	mg/L	0.169505	0.5075	J
* Manganese, Total	4/14/21 13:48	4/16/21 13:38		1.015	0.0218	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 13:38		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:30		1.015	0.0248	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/14/21 14:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	251	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	256	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 4/6/21 14:00
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06640

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	250	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.73	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 12:51	4/8/21 12:51		1	3.90	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:53	4/8/21 14:53		1	0.114	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:34	4/13/21 11:34		1	3.29	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/21 13:54	4/6/21 13:54			479.51	uS/cm			FA
pH	4/6/21 13:54	4/6/21 13:54			7.23	SU			FA
Temperature	4/6/21 13:54	4/6/21 13:54			21.07	C			FA
Turbidity	4/6/21 13:54	4/6/21 13:54			0.82	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/6/21 14:00
Customer ID:
Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BB06640

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB06644	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.100	0.103	0.102	0.0850 to 0.115	99.4	70.0 to 130	2.44	20.0
BB06644	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.182	0.181	0.103	0.0850 to 0.115	101	70.0 to 130	0.208	20.0
BB06644	Potassium, Total	mg/L	-0.00859	0.367	10.0	11.5	11.7	10.3	8.50 to 11.5	99.3	70.0 to 130	1.53	20.0
BB06644	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0941	0.0937	0.0957	0.0850 to 0.115	94.1	70.0 to 130	0.358	20.0
BB06644	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0900	0.0915	0.0906	0.0850 to 0.115	90.0	70.0 to 130	1.64	20.0
BB06644	Calcium, Total	mg/L	-0.00300	0.152	5.00	77.4	78.0	5.12	4.25 to 5.75	86.0	70.0 to 130	0.772	20.0
BB06644	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.132	0.131	0.0970	0.0850 to 0.115	94.4	70.0 to 130	0.922	20.0
BB06644	Magnesium, Total	mg/L	0.000413	0.0462	5.00	35.8	35.7	5.14	4.25 to 5.75	94.0	70.0 to 130	0.280	20.0
BB06644	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0991	0.0978	0.0974	0.0850 to 0.115	99.1	70.0 to 130	1.35	20.0
BB06912	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.181	0.183	0.106	0.0850 to 0.115	104	70.0 to 130	1.14	20.0
BB06644	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0985	0.0974	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.20	20.0
BB06644	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.105	0.104	0.0969	0.0850 to 0.115	96.9	70.0 to 130	0.906	20.0
BB06644	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0967	0.0951	0.0935	0.0850 to 0.115	96.7	70.0 to 130	1.70	20.0
BB06641	Mercury, Total by CVAA	mg/L	-0.0000448	0.000500	0.004	0.00355	0.00394	0.00347	0.00340 to 0.00460	88.8	70.0 to 130	10.4	20.0
BB06644	Boron, Total	mg/L	0.00929	0.0650	1.00	2.72	2.74	0.999	0.850 to 1.15	96.0	70.0 to 130	0.733	20.0
BB06644	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.226	0.231	0.199	0.170 to 0.230	113	70.0 to 130	2.19	20.0
BB06644	Sodium, Total	mg/L	0.00309	0.0660	5.00	29.0	29.2	4.94	4.25 to 5.75	106	70.0 to 130	0.687	20.0
BB06645	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.201	0.199	0.202	0.170 to 0.230	100	70.0 to 130	1.00	20.0
BB06644	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0981	0.0966	0.0983	0.0850 to 0.115	98.1	70.0 to 130	1.57	20.0
BB06644	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0965	0.0963	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.257	20.0
BB06644	Iron, Total	mg/L	0.000485	0.0176	0.2	0.269	0.274	0.205	0.170 to 0.230	96.6	70.0 to 130	1.84	20.0
BB06644	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0983	0.0981	0.100	0.0850 to 0.115	98.3	70.0 to 130	0.210	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/6/21 14:00

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BB06640

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06641	Solids, Dissolved	mg/L	-1.00	25.0			435	49.0	40.0 to 60.0			0.115	5.00
BB06641	Chloride	mg/L	-0.00203	1.00	40.0	64.8	23.7	10.1	9.00 to 11.0	106	80.0 to 120	5.64	20.0
BB06641	Fluoride	mg/L	0.036	0.100	2.50	2.69	0.070	2.63	2.25 to 2.75	105	80.0 to 120	0.712	20.0
BB06641	Sulfate	mg/L	-0.406	1.00	320	464	163	18.3	18.0 to 22.0	93.8	80.0 to 120	0.612	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 4/7/21 11:07
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06641

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:48		1.015	1.90	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 15:14		10.15	86.8	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 12:48		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/13/21 13:00	4/15/21 12:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:48		1.015	27.3	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:48		1.015	13.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:34		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 13:41		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 13:41		1.015	0.000194	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 13:41		1.015	0.0245	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 13:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 13:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 13:41		1.015	0.000506	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 13:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 13:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 13:41		1.015	0.000210	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 13:41		1.015	3.75	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 13:41		1.015	0.00245	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 13:41		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 13:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:34		1.015	0.00217	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/9/21 09:58	4/14/21 14:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	134	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/9/21 11:55	4/13/21 11:15		1	436	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 4/7/21 11:07
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06641

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	133	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.57	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 13:02	4/8/21 13:02		4	22.4	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 14:54	4/8/21 14:54		1	0.0705	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:35	4/13/21 11:35		16	164	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/7/21 11:04	4/7/21 11:04			660.47	uS/cm			FA
pH	4/7/21 11:04	4/7/21 11:04			7.51	SU			FA
Temperature	4/7/21 11:04	4/7/21 11:04			18.95	C			FA
Turbidity	4/7/21 11:04	4/7/21 11:04			1.07	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/7/21 11:07

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BB06641

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06644	Potassium, Total	mg/L	-0.00859	0.367	10.0	11.5	11.7	10.3	8.50 to 11.5	99.3	70.0 to 130	1.53	20.0
BB06644	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0941	0.0937	0.0957	0.0850 to 0.115	94.1	70.0 to 130	0.358	20.0
BB06644	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.100	0.103	0.102	0.0850 to 0.115	99.4	70.0 to 130	2.44	20.0
BB06644	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.182	0.181	0.103	0.0850 to 0.115	101	70.0 to 130	0.208	20.0
BB06644	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0900	0.0915	0.0906	0.0850 to 0.115	90.0	70.0 to 130	1.64	20.0
BB06644	Calcium, Total	mg/L	-0.00300	0.152	5.00	77.4	78.0	5.12	4.25 to 5.75	86.0	70.0 to 130	0.772	20.0
BB06641	Mercury, Total by CVAA	mg/L	-0.0000448	0.000500	0.004	0.00355	0.00394	0.00347	0.00340 to 0.00460	88.8	70.0 to 130	10.4	20.0
BB06644	Boron, Total	mg/L	0.00929	0.0650	1.00	2.72	2.74	0.999	0.850 to 1.15	96.0	70.0 to 130	0.733	20.0
BB06644	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0981	0.0966	0.0983	0.0850 to 0.115	98.1	70.0 to 130	1.57	20.0
BB06644	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0965	0.0963	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.257	20.0
BB06644	Iron, Total	mg/L	0.000485	0.0176	0.2	0.269	0.274	0.205	0.170 to 0.230	96.6	70.0 to 130	1.84	20.0
BB06644	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0983	0.0981	0.100	0.0850 to 0.115	98.3	70.0 to 130	0.210	20.0
BB06644	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.132	0.131	0.0970	0.0850 to 0.115	94.4	70.0 to 130	0.922	20.0
BB06644	Magnesium, Total	mg/L	0.000413	0.0462	5.00	35.8	35.7	5.14	4.25 to 5.75	94.0	70.0 to 130	0.280	20.0
BB06644	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0991	0.0978	0.0974	0.0850 to 0.115	99.1	70.0 to 130	1.35	20.0
BB06912	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.181	0.183	0.106	0.0850 to 0.115	104	70.0 to 130	1.14	20.0
BB06644	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0985	0.0974	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.20	20.0
BB06644	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.105	0.104	0.0969	0.0850 to 0.115	96.9	70.0 to 130	0.906	20.0
BB06644	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0967	0.0951	0.0935	0.0850 to 0.115	96.7	70.0 to 130	1.70	20.0
BB06644	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.226	0.231	0.199	0.170 to 0.230	113	70.0 to 130	2.19	20.0
BB06644	Sodium, Total	mg/L	0.00309	0.0660	5.00	29.0	29.2	4.94	4.25 to 5.75	106	70.0 to 130	0.687	20.0
BB06645	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.201	0.199	0.202	0.170 to 0.230	100	70.0 to 130	1.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/7/21 11:07

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BB06641

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB06641	Solids, Dissolved	mg/L	-1.00	25.0			435	49.0	40.0 to 60.0			0.115	5.00
BB06641	Chloride	mg/L	-0.00203	1.00	40.0	64.8	23.7	10.1	9.00 to 11.0	106	80.0 to 120	5.64	20.0
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06641	Fluoride	mg/L	0.036	0.100	2.50	2.69	0.070	2.63	2.25 to 2.75	105	80.0 to 120	0.712	20.0
BB06641	Sulfate	mg/L	-0.406	1.00	320	464	163	18.3	18.0 to 22.0	93.8	80.0 to 120	0.612	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 4/7/21 12:10
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06642

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:51		1.015	2.40	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 15:18		10.15	75.5	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 12:51		1.015	0.0231	mg/L	0.008120	0.0406	J
* Lithium, Total	4/13/21 13:00	4/15/21 12:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:51		1.015	26.6	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:51		1.015	24.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:37		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 13:45		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 13:45		1.015	0.0000955	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 13:45		1.015	0.0211	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 13:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 13:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 13:45		1.015	0.000259	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 13:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 13:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 13:45		1.015	0.0119	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 13:45		1.015	3.06	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 13:45		1.015	0.0313	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 13:45		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 13:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:38		1.015	0.0300	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/16/21 09:34	4/19/21 10:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	117	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/13/21 13:40	4/15/21 15:15		1	436	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 4/7/21 12:10
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06642

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	117	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.41	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 13:30	4/8/21 13:30		5	45.5	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 15:06	4/8/21 15:06		1	0.0872	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:50	4/13/21 11:50		10	151	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/7/21 12:08	4/7/21 12:08			680.84	uS/cm			FA
pH	4/7/21 12:08	4/7/21 12:08			7.02	SU			FA
Temperature	4/7/21 12:08	4/7/21 12:08			19.50	C			FA
Turbidity	4/7/21 12:08	4/7/21 12:08			1.15	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/7/21 12:10

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BB06642

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06644	Boron, Total	mg/L	0.00929	0.0650	1.00	2.72	2.74	0.999	0.850 to 1.15	96.0	70.0 to 130	0.733	20.0
BB06644	Potassium, Total	mg/L	-0.00859	0.367	10.0	11.5	11.7	10.3	8.50 to 11.5	99.3	70.0 to 130	1.53	20.0
BB06644	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0941	0.0937	0.0957	0.0850 to 0.115	94.1	70.0 to 130	0.358	20.0
BB06644	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0900	0.0915	0.0906	0.0850 to 0.115	90.0	70.0 to 130	1.64	20.0
BB06644	Calcium, Total	mg/L	-0.00300	0.152	5.00	77.4	78.0	5.12	4.25 to 5.75	86.0	70.0 to 130	0.772	20.0
BB06644	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.100	0.103	0.102	0.0850 to 0.115	99.4	70.0 to 130	2.44	20.0
BB06644	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.182	0.181	0.103	0.0850 to 0.115	101	70.0 to 130	0.208	20.0
BB06644	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0981	0.0966	0.0983	0.0850 to 0.115	98.1	70.0 to 130	1.57	20.0
BB06644	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0965	0.0963	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.257	20.0
BB06644	Iron, Total	mg/L	0.000485	0.0176	0.2	0.269	0.274	0.205	0.170 to 0.230	96.6	70.0 to 130	1.84	20.0
BB06644	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0983	0.0981	0.100	0.0850 to 0.115	98.3	70.0 to 130	0.210	20.0
BB06644	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0985	0.0974	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.20	20.0
BB06644	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.105	0.104	0.0969	0.0850 to 0.115	96.9	70.0 to 130	0.906	20.0
BB06644	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0967	0.0951	0.0935	0.0850 to 0.115	96.7	70.0 to 130	1.70	20.0
BB06915	Mercury, Total by CVAA	mg/L	0.0000162	0.000500	0.004	0.00345	0.00342	0.00365	0.00340 to 0.00460	86.2	70.0 to 130	0.873	20.0
BB06644	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.132	0.131	0.0970	0.0850 to 0.115	94.4	70.0 to 130	0.922	20.0
BB06644	Magnesium, Total	mg/L	0.000413	0.0462	5.00	35.8	35.7	5.14	4.25 to 5.75	94.0	70.0 to 130	0.280	20.0
BB06644	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0991	0.0978	0.0974	0.0850 to 0.115	99.1	70.0 to 130	1.35	20.0
BB06912	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.181	0.183	0.106	0.0850 to 0.115	104	70.0 to 130	1.14	20.0
BB06644	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.226	0.231	0.199	0.170 to 0.230	113	70.0 to 130	2.19	20.0
BB06644	Sodium, Total	mg/L	0.00309	0.0660	5.00	29.0	29.2	4.94	4.25 to 5.75	106	70.0 to 130	0.687	20.0
BB06645	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.201	0.199	0.202	0.170 to 0.230	100	70.0 to 130	1.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/7/21 12:10

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BB06642

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06646	Fluoride	mg/L	0.0271	0.100	2.50	2.66	0.023	2.58	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB06646	Sulfate	mg/L	-0.316	1.00	20.0	18.3	-0.323	18.3	18.0 to 22.0	91.5	80.0 to 120	0.00	20.0
BB06645	Solids, Dissolved	mg/L	2.00	25.0			407	50.0	40.0 to 60.0			0.245	5.00
BB06646	Chloride	mg/L	-0.0245	1.00	10.0	10.1	0.123	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP
Collected: 4/7/21 13:10
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06643

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:55		1.015	1.75	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 15:21		10.15	72.7	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 12:55		1.015	0.0695	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 12:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:55		1.015	31.1	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:55		1.015	23.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:40		1.015	0.0460	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 13:48		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 13:48		1.015	0.00103	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 13:48		1.015	0.0375	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 13:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 13:48		1.015	0.000320	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 13:48		1.015	0.000374	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 13:48		1.015	0.00838	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 13:48		1.015	1.65	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 13:48		1.015	0.0763	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 13:48		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:42		1.015	0.0877	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/16/21 09:34	4/19/21 10:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	145	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/13/21 13:40	4/15/21 15:15		1	432	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP
Collected: 4/7/21 13:10
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06643

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	144	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.54	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 13:31	4/8/21 13:31		5	44.8	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 15:07	4/8/21 15:07		1	0.0739	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:51	4/13/21 11:51		8	145	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/7/21 13:06	4/7/21 13:06			668.93	uS/cm			FA
pH	4/7/21 13:06	4/7/21 13:06			7.24	SU			FA
Temperature	4/7/21 13:06	4/7/21 13:06			19.12	C			FA
Turbidity	4/7/21 13:06	4/7/21 13:06			1.59	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/7/21 13:10
Customer ID:
Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BB06643

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06644	Boron, Total	mg/L	0.00929	0.0650	1.00	2.72	2.74	0.999	0.850 to 1.15	96.0	70.0 to 130	0.733	20.0
BB06644	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0900	0.0915	0.0906	0.0850 to 0.115	90.0	70.0 to 130	1.64	20.0
BB06644	Calcium, Total	mg/L	-0.00300	0.152	5.00	77.4	78.0	5.12	4.25 to 5.75	86.0	70.0 to 130	0.772	20.0
BB06644	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0981	0.0966	0.0983	0.0850 to 0.115	98.1	70.0 to 130	1.57	20.0
BB06644	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0965	0.0963	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.257	20.0
BB06644	Iron, Total	mg/L	0.000485	0.0176	0.2	0.269	0.274	0.205	0.170 to 0.230	96.6	70.0 to 130	1.84	20.0
BB06644	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0983	0.0981	0.100	0.0850 to 0.115	98.3	70.0 to 130	0.210	20.0
BB06644	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0985	0.0974	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.20	20.0
BB06644	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.105	0.104	0.0969	0.0850 to 0.115	96.9	70.0 to 130	0.906	20.0
BB06644	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0967	0.0951	0.0935	0.0850 to 0.115	96.7	70.0 to 130	1.70	20.0
BB06915	Mercury, Total by CVAA	mg/L	0.0000162	0.000500	0.004	0.00345	0.00342	0.00365	0.00340 to 0.00460	86.2	70.0 to 130	0.873	20.0
BB06644	Potassium, Total	mg/L	-0.00859	0.367	10.0	11.5	11.7	10.3	8.50 to 11.5	99.3	70.0 to 130	1.53	20.0
BB06644	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0941	0.0937	0.0957	0.0850 to 0.115	94.1	70.0 to 130	0.358	20.0
BB06644	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.226	0.231	0.199	0.170 to 0.230	113	70.0 to 130	2.19	20.0
BB06644	Sodium, Total	mg/L	0.00309	0.0660	5.00	29.0	29.2	4.94	4.25 to 5.75	106	70.0 to 130	0.687	20.0
BB06645	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.201	0.199	0.202	0.170 to 0.230	100	70.0 to 130	1.00	20.0
BB06644	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.100	0.103	0.102	0.0850 to 0.115	99.4	70.0 to 130	2.44	20.0
BB06644	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.182	0.181	0.103	0.0850 to 0.115	101	70.0 to 130	0.208	20.0
BB06644	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.132	0.131	0.0970	0.0850 to 0.115	94.4	70.0 to 130	0.922	20.0
BB06644	Magnesium, Total	mg/L	0.000413	0.0462	5.00	35.8	35.7	5.14	4.25 to 5.75	94.0	70.0 to 130	0.280	20.0
BB06644	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0991	0.0978	0.0974	0.0850 to 0.115	99.1	70.0 to 130	1.35	20.0
BB06912	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.181	0.183	0.106	0.0850 to 0.115	104	70.0 to 130	1.14	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/7/21 13:10

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BB06643

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06646	Fluoride	mg/L	0.0271	0.100	2.50	2.66	0.023	2.58	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB06646	Sulfate	mg/L	-0.316	1.00	20.0	18.3	-0.323	18.3	18.0 to 22.0	91.5	80.0 to 120	0.00	20.0
BB06646	Chloride	mg/L	-0.0245	1.00	10.0	10.1	0.123	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BB06645	Solids, Dissolved	mg/L	2.00	25.0			407	50.0	40.0 to 60.0			0.245	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21 DUP

Location Code: WMWGASAP
Collected: 4/7/21 13:10
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06644

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/13/21 13:00	4/15/21 12:58		1.015	1.76	mg/L	0.030000	0.1015	
* Calcium, Total	4/13/21 13:00	4/15/21 15:25		10.15	73.1	mg/L	0.70035	4.06	
* Iron, Total	4/13/21 13:00	4/15/21 12:58		1.015	0.0759	mg/L	0.008120	0.0406	
* Lithium, Total	4/13/21 13:00	4/15/21 12:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/13/21 13:00	4/15/21 12:58		1.015	31.1	mg/L	0.021315	0.406	
* Sodium, Total	4/13/21 13:00	4/15/21 12:58		1.015	23.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:44		1.015	0.0459	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 13:52		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 13:52		1.015	0.00101	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 13:52		1.015	0.0380	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 13:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 13:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 13:52		1.015	0.000297	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 13:52		1.015	0.000365	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 13:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 13:52		1.015	0.00810	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 13:52		1.015	1.60	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 13:52		1.015	0.0808	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 13:52		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 13:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:45		1.015	0.0886	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/16/21 09:34	4/19/21 10:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	136	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/13/21 13:40	4/15/21 15:15		1	434	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21 DUP

Location Code: WMWGASAP
Collected: 4/7/21 13:10
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06644

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	136	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.53	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 13:32	4/8/21 13:32		5	41.8	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 15:08	4/8/21 15:08		1	0.0751	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:53	4/13/21 11:53		8	147	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/7/21 13:06	4/7/21 13:06			668.93	uS/cm			FA
pH	4/7/21 13:06	4/7/21 13:06			7.24	SU			FA
Temperature	4/7/21 13:06	4/7/21 13:06			19.12	C			FA
Turbidity	4/7/21 13:06	4/7/21 13:06			1.59	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/7/21 13:10

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-21 DUP

Laboratory ID Number: BB06644

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06644	Potassium, Total	mg/L	-0.00859	0.367	10.0	11.5	11.7	10.3	8.50 to 11.5	99.3	70.0 to 130	1.53	20.0
BB06644	Antimony, Total	mg/L	0.000106	0.00100	0.10	0.0941	0.0937	0.0957	0.0850 to 0.115	94.1	70.0 to 130	0.358	20.0
BB06644	Beryllium, Total	mg/L	0.0000376	0.000880	0.10	0.0900	0.0915	0.0906	0.0850 to 0.115	90.0	70.0 to 130	1.64	20.0
BB06644	Calcium, Total	mg/L	-0.00300	0.152	5.00	77.4	78.0	5.12	4.25 to 5.75	86.0	70.0 to 130	0.772	20.0
BB06644	Barium, Total	mg/L	0.0000122	0.000200	0.10	0.132	0.131	0.0970	0.0850 to 0.115	94.4	70.0 to 130	0.922	20.0
BB06644	Magnesium, Total	mg/L	0.000413	0.0462	5.00	35.8	35.7	5.14	4.25 to 5.75	94.0	70.0 to 130	0.280	20.0
BB06644	Lead, Total	mg/L	0.0000057	0.000147	0.10	0.0991	0.0978	0.0974	0.0850 to 0.115	99.1	70.0 to 130	1.35	20.0
BB06912	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.181	0.183	0.106	0.0850 to 0.115	104	70.0 to 130	1.14	20.0
BB06644	Chromium, Total	mg/L	0.0000115	0.000440	0.10	0.0985	0.0974	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.20	20.0
BB06644	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.105	0.104	0.0969	0.0850 to 0.115	96.9	70.0 to 130	0.906	20.0
BB06644	Thallium, Total	mg/L	-0.000005	0.000147	0.10	0.0967	0.0951	0.0935	0.0850 to 0.115	96.7	70.0 to 130	1.70	20.0
BB06915	Mercury, Total by CVAA	mg/L	0.0000162	0.000500	0.004	0.00345	0.00342	0.00365	0.00340 to 0.00460	86.2	70.0 to 130	0.873	20.0
BB06644	Arsenic, Total	mg/L	0.0000236	0.000147	0.10	0.100	0.103	0.102	0.0850 to 0.115	99.4	70.0 to 130	2.44	20.0
BB06644	Manganese, Total	mg/L	0.0000101	0.000147	0.10	0.182	0.181	0.103	0.0850 to 0.115	101	70.0 to 130	0.208	20.0
BB06644	Cadmium, Total	mg/L	0.0000091	0.000147	0.10	0.0981	0.0966	0.0983	0.0850 to 0.115	98.1	70.0 to 130	1.57	20.0
BB06644	Cobalt, Total	mg/L	0.0000071	0.000147	0.10	0.0965	0.0963	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.257	20.0
BB06644	Iron, Total	mg/L	0.000485	0.0176	0.2	0.269	0.274	0.205	0.170 to 0.230	96.6	70.0 to 130	1.84	20.0
BB06644	Selenium, Total	mg/L	-0.000003	0.00100	0.10	0.0983	0.0981	0.100	0.0850 to 0.115	98.3	70.0 to 130	0.210	20.0
BB06644	Lithium, Total	mg/L	0.0000344	0.0154	0.20	0.226	0.231	0.199	0.170 to 0.230	113	70.0 to 130	2.19	20.0
BB06644	Sodium, Total	mg/L	0.00309	0.0660	5.00	29.0	29.2	4.94	4.25 to 5.75	106	70.0 to 130	0.687	20.0
BB06645	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.201	0.199	0.202	0.170 to 0.230	100	70.0 to 130	1.00	20.0
BB06644	Boron, Total	mg/L	0.00929	0.0650	1.00	2.72	2.74	0.999	0.850 to 1.15	96.0	70.0 to 130	0.733	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/7/21 13:10

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-21 DUP

Laboratory ID Number: BB06644

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06646	Fluoride	mg/L	0.0271	0.100	2.50	2.66	0.023	2.58	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB06646	Sulfate	mg/L	-0.316	1.00	20.0	18.3	-0.323	18.3	18.0 to 22.0	91.5	80.0 to 120	0.00	20.0
BB06646	Chloride	mg/L	-0.0245	1.00	10.0	10.1	0.123	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BB06645	Solids, Dissolved	mg/L	2.00	25.0			407	50.0	40.0 to 60.0			0.245	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP
Collected: 4/7/21 14:10
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06645

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:04		1.015	1.61	mg/L	0.030000	0.1015	
* Calcium, Total	4/19/21 12:02	4/20/21 14:04		10.15	79.7	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 11:04		1.015	0.0180	mg/L	0.008120	0.0406	J
* Lithium, Total	4/19/21 12:02	4/20/21 11:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 11:04		1.015	26.9	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 11:04		1.015	18.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/12/21 13:00	4/13/21 13:47		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 14:21		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 14:21		1.015	0.000184	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 14:21		1.015	0.0352	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 14:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 14:21		1.015	0.000307	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 14:21		1.015	0.000333	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 14:21		1.015	0.0456	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 14:21		1.015	2.96	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 14:21		1.015	0.273	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 14:21		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:49		1.015	0.102	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/16/21 09:34	4/19/21 10:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	183	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/13/21 13:40	4/15/21 15:15		1	409	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP
Collected: 4/7/21 14:10
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06645

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	183	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.36	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/8/21 13:33	4/8/21 13:33		5	38.9	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 15:10	4/8/21 15:10		1	0.0834	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:54	4/13/21 11:54		8	124	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/7/21 14:06	4/7/21 14:06			659.50	uS/cm			FA
pH	4/7/21 14:06	4/7/21 14:06			6.70	SU			FA
Temperature	4/7/21 14:06	4/7/21 14:06			19.69	C			FA
Turbidity	4/7/21 14:06	4/7/21 14:06			1.52	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/7/21 14:10
Customer ID:
Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BB06645

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06994	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0876	0.0895	0.0893	0.0850 to 0.115	87.6	70.0 to 130	2.15	20.0
BB06912	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.181	0.183	0.106	0.0850 to 0.115	104	70.0 to 130	1.14	20.0
BB06994	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	18.2	18.4	5.09	4.25 to 5.75	98.0	70.0 to 130	1.09	20.0
BB06915	Mercury, Total by CVAA	mg/L	0.0000162	0.000500	0.004	0.00345	0.00342	0.00365	0.00340 to 0.00460	86.2	70.0 to 130	0.873	20.0
BB06994	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB06994	Iron, Total	mg/L	0.000123	0.0176	0.2	0.274	0.298	0.200	0.170 to 0.230	112	70.0 to 130	8.39	20.0
BB06994	Calcium, Total	mg/L	-0.00194	0.152	5.00	27.9	28.0	5.10	4.25 to 5.75	98.0	70.0 to 130	0.358	20.0
BB06994	Potassium, Total	mg/L	-0.00872	0.367	10.0	11.2	11.3	9.85	8.50 to 11.5	99.9	70.0 to 130	0.889	20.0
BB06994	Sodium, Total	mg/L	0.000392	0.0660	5.00	8.83	8.87	4.84	4.25 to 5.75	102	70.0 to 130	0.452	20.0
BB06994	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0984	0.0988	0.0991	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BB06994	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0983	0.0996	0.0850 to 0.115	95.0	70.0 to 130	3.41	20.0
BB06994	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0981	0.0982	0.100	0.0850 to 0.115	98.0	70.0 to 130	0.102	20.0
BB06994	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0923	0.0950	0.0938	0.0850 to 0.115	92.3	70.0 to 130	2.88	20.0
BB06994	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0978	0.0999	0.101	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BB06994	Boron, Total	mg/L	0.000919	0.0650	1.00	1.02	1.03	1.04	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB06994	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0983	0.0993	0.0984	0.0850 to 0.115	97.4	70.0 to 130	1.01	20.0
BB06994	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.202	0.204	0.191	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BB06994	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.139	0.140	0.101	0.0850 to 0.115	99.9	70.0 to 130	0.717	20.0
BB06994	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0953	0.0965	0.0976	0.0850 to 0.115	94.8	70.0 to 130	1.25	20.0
BB06645	Iron, Dissolved	mg/L	0.000325	0.0176	0.2	0.201	0.199	0.202	0.170 to 0.230	100	70.0 to 130	1.00	20.0
BB06994	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.106	0.107	0.0948	0.0850 to 0.115	95.2	70.0 to 130	0.939	20.0
BB06994	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0954	0.0939	0.0960	0.0850 to 0.115	95.4	70.0 to 130	1.58	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/7/21 14:10

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BB06645

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06646	Chloride	mg/L	-0.0245	1.00	10.0	10.1	0.123	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BB06646	Sulfate	mg/L	-0.316	1.00	20.0	18.3	-0.323	18.3	18.0 to 22.0	91.5	80.0 to 120	0.00	20.0
BB06646	Fluoride	mg/L	0.0271	0.100	2.50	2.66	0.023	2.58	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06645	Solids, Dissolved	mg/L	2.00	25.0			407	50.0	40.0 to 60.0			0.245	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-3

Location Code: WMWGASAPFB
Collected: 4/7/21 14:45
Customer ID:
Submittal Date: 4/8/21 10:00

Laboratory ID Number: BB06646

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:07		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 11:07		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/19/21 12:02	4/20/21 11:07		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/19/21 12:02	4/20/21 11:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 11:07		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	4/19/21 12:02	4/20/21 11:07		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 14:24		1.015	0.0000891	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 14:24		1.015	0.000268	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 14:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/16/21 09:34	4/19/21 10:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/13/21 13:40	4/15/21 15:15		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	4/8/21 13:34	4/8/21 13:34		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/8/21 15:11	4/8/21 15:11		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 11:55	4/13/21 11:55		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 4/7/21 14:45

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BB06646

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06994	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0876	0.0895	0.0893	0.0850 to 0.115	87.6	70.0 to 130	2.15	20.0
BB06994	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	18.2	18.4	5.09	4.25 to 5.75	98.0	70.0 to 130	1.09	20.0
BB06915	Mercury, Total by CVAA	mg/L	0.0000162	0.000500	0.004	0.00345	0.00342	0.00365	0.00340 to 0.00460	86.2	70.0 to 130	0.873	20.0
BB06994	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB06994	Iron, Total	mg/L	0.000123	0.0176	0.2	0.274	0.298	0.200	0.170 to 0.230	112	70.0 to 130	8.39	20.0
BB06994	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0983	0.0996	0.0850 to 0.115	95.0	70.0 to 130	3.41	20.0
BB06994	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0981	0.0982	0.100	0.0850 to 0.115	98.0	70.0 to 130	0.102	20.0
BB06994	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0923	0.0950	0.0938	0.0850 to 0.115	92.3	70.0 to 130	2.88	20.0
BB06994	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0978	0.0999	0.101	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BB06994	Calcium, Total	mg/L	-0.00194	0.152	5.00	27.9	28.0	5.10	4.25 to 5.75	98.0	70.0 to 130	0.358	20.0
BB06994	Potassium, Total	mg/L	-0.00872	0.367	10.0	11.2	11.3	9.85	8.50 to 11.5	99.9	70.0 to 130	0.889	20.0
BB06994	Sodium, Total	mg/L	0.000392	0.0660	5.00	8.83	8.87	4.84	4.25 to 5.75	102	70.0 to 130	0.452	20.0
BB06994	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0984	0.0988	0.0991	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BB06994	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.202	0.204	0.191	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BB06994	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.139	0.140	0.101	0.0850 to 0.115	99.9	70.0 to 130	0.717	20.0
BB06994	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0953	0.0965	0.0976	0.0850 to 0.115	94.8	70.0 to 130	1.25	20.0
BB06994	Boron, Total	mg/L	0.000919	0.0650	1.00	1.02	1.03	1.04	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB06994	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0983	0.0993	0.0984	0.0850 to 0.115	97.4	70.0 to 130	1.01	20.0
BB06994	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.106	0.107	0.0948	0.0850 to 0.115	95.2	70.0 to 130	0.939	20.0
BB06994	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0954	0.0939	0.0960	0.0850 to 0.115	95.4	70.0 to 130	1.58	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 4/7/21 14:45

Customer ID:

Delivery Date: 4/8/21 10:00

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BB06646

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06646	Chloride	mg/L	-0.0245	1.00	10.0	10.1	0.123	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BB06646	Fluoride	mg/L	0.0271	0.100	2.50	2.66	0.023	2.58	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB06646	Sulfate	mg/L	-0.316	1.00	20.0	18.3	-0.323	18.3	18.0 to 22.0	91.5	80.0 to 120	0.00	20.0
BB06645	Solids, Dissolved	mg/L	2.00	25.0			407	50.0	40.0 to 60.0			0.245	5.00

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP
Collected: 4/12/21 10:08
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06911

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/19/21 12:02	4/20/21 11:11		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/19/21 12:02	4/20/21 11:11		1.015	35.0	mg/L	0.070035	0.406		
* Iron, Total	4/19/21 12:02	4/20/21 11:11		1.015	0.231	mg/L	0.008120	0.0406		
* Lithium, Total	4/19/21 12:02	4/20/21 11:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/19/21 12:02	4/20/21 11:11		1.015	7.09	mg/L	0.021315	0.406		
* Sodium, Total	4/19/21 12:02	4/20/21 11:11		1.015	7.37	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	4/19/21 13:00	4/21/21 10:19		1.015	0.213	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	4/14/21 13:48	4/16/21 14:28		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Arsenic, Total	4/14/21 13:48	4/16/21 14:28		1.015	0.000946	mg/L	0.000068	0.000203		
* Barium, Total	4/14/21 13:48	4/16/21 14:28		1.015	0.0226	mg/L	0.000101	0.000203		
* Beryllium, Total	4/14/21 13:48	4/16/21 14:28		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/14/21 13:48	4/16/21 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/14/21 13:48	4/16/21 14:28		1.015	0.000345	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/14/21 13:48	4/16/21 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	4/14/21 13:48	4/16/21 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	4/14/21 13:48	4/16/21 14:28		1.015	0.00167	mg/L	0.000068	0.000203		
* Potassium, Total	4/14/21 13:48	4/16/21 14:28		1.015	0.527	mg/L	0.169505	0.5075		
* Manganese, Total	4/14/21 13:48	4/16/21 14:28		1.015	0.0739	mg/L	0.000068	0.000203		
* Selenium, Total	4/14/21 13:48	4/16/21 14:28		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Thallium, Total	4/14/21 13:48	4/16/21 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:53		1.015	0.0786	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	4/16/21 09:34	4/19/21 10:59		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	93.2	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW								
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	146	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP
Collected: 4/12/21 10:08
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06911

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	92.5	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.66	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/15/21 10:14	4/15/21 10:14		1	2.91	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 12:43	4/15/21 12:43		1	0.163	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 13:28	4/13/21 13:28		1	14.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/12/21 10:05	4/12/21 10:05			251.69	uS/cm			FA
pH	4/12/21 10:05	4/12/21 10:05			7.09	SU			FA
Temperature	4/12/21 10:05	4/12/21 10:05			17.98	C			FA
Turbidity	4/12/21 10:05	4/12/21 10:05			1.62	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 10:08
Customer ID:
Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BB06911

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06994	Beryllium, Total	mg/L	0.000281	0.000880	0.10	0.0876	0.0895	0.0893	0.0850 to 0.115	87.6	70.0 to 130	2.15	20.0
BB06994	Boron, Total	mg/L	0.000919	0.0650	1.00	1.02	1.03	1.04	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB06994	Chromium, Total	mg/L	0.000242	0.000440	0.10	0.0983	0.0993	0.0984	0.0850 to 0.115	97.4	70.0 to 130	1.01	20.0
BB06997	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.204	0.198	0.202	0.170 to 0.230	102	70.0 to 130	2.99	20.0
BB06994	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0983	0.0996	0.0850 to 0.115	95.0	70.0 to 130	3.41	20.0
BB06994	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0981	0.0982	0.100	0.0850 to 0.115	98.0	70.0 to 130	0.102	20.0
BB06994	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0923	0.0950	0.0938	0.0850 to 0.115	92.3	70.0 to 130	2.88	20.0
BB06994	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0978	0.0999	0.101	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BB06912	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.181	0.183	0.106	0.0850 to 0.115	104	70.0 to 130	1.14	20.0
BB06994	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	18.2	18.4	5.09	4.25 to 5.75	98.0	70.0 to 130	1.09	20.0
BB06994	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.202	0.204	0.191	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BB06994	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.139	0.140	0.101	0.0850 to 0.115	99.9	70.0 to 130	0.717	20.0
BB06994	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0953	0.0965	0.0976	0.0850 to 0.115	94.8	70.0 to 130	1.25	20.0
BB06994	Calcium, Total	mg/L	-0.00194	0.152	5.00	27.9	28.0	5.10	4.25 to 5.75	98.0	70.0 to 130	0.358	20.0
BB06994	Potassium, Total	mg/L	-0.00872	0.367	10.0	11.2	11.3	9.85	8.50 to 11.5	99.9	70.0 to 130	0.889	20.0
BB06994	Sodium, Total	mg/L	0.000392	0.0660	5.00	8.83	8.87	4.84	4.25 to 5.75	102	70.0 to 130	0.452	20.0
BB06994	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0984	0.0988	0.0991	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BB06915	Mercury, Total by CVAA	mg/L	0.0000162	0.000500	0.004	0.00345	0.00342	0.00365	0.00340 to 0.00460	86.2	70.0 to 130	0.873	20.0
BB06994	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB06994	Iron, Total	mg/L	0.000123	0.0176	0.2	0.274	0.298	0.200	0.170 to 0.230	112	70.0 to 130	8.39	20.0
BB06994	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.106	0.107	0.0948	0.0850 to 0.115	95.2	70.0 to 130	0.939	20.0
BB06994	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0954	0.0939	0.0960	0.0850 to 0.115	95.4	70.0 to 130	1.58	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 10:08
Customer ID:
Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BB06911

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06916	Fluoride	mg/L	0.019	0.100	2.50	2.62	0.0622	2.55	2.25 to 2.75	102	80.0 to 120	16.4	20.0
BB06996	Solids, Dissolved	mg/L	1.00	25.0			127	52.0	40.0 to 60.0			0.781	5.00
BB06916	Chloride	mg/L	-0.074	1.00	30.0	53.7	23.4	9.93	9.00 to 11.0	97.7	80.0 to 120	4.18	20.0
BB06916	Sulfate	mg/L	-0.614	1.00	1000	1410	496	18.7	18.0 to 22.0	91.1	80.0 to 120	0.603	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39 DUP

Location Code: WMWGASAP
Collected: 4/12/21 10:08
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06912

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/19/21 12:02	4/20/21 11:14		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/19/21 12:02	4/20/21 11:14		1.015	34.8	mg/L	0.070035	0.406		
* Iron, Total	4/19/21 12:02	4/20/21 11:14		1.015	0.233	mg/L	0.008120	0.0406		
* Lithium, Total	4/19/21 12:02	4/20/21 11:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/19/21 12:02	4/20/21 11:14		1.015	7.04	mg/L	0.021315	0.406		
* Sodium, Total	4/19/21 12:02	4/20/21 11:14		1.015	7.25	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	4/19/21 13:00	4/21/21 10:23		1.015	0.212	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	4/14/21 13:48	4/16/21 14:31		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Arsenic, Total	4/14/21 13:48	4/16/21 14:31		1.015	0.000860	mg/L	0.000068	0.000203		
* Barium, Total	4/14/21 13:48	4/16/21 14:31		1.015	0.0224	mg/L	0.000101	0.000203		
* Beryllium, Total	4/14/21 13:48	4/16/21 14:31		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/14/21 13:48	4/16/21 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/14/21 13:48	4/16/21 14:31		1.015	0.000275	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/14/21 13:48	4/16/21 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	4/14/21 13:48	4/16/21 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	4/14/21 13:48	4/16/21 14:31		1.015	0.00158	mg/L	0.000068	0.000203		
* Potassium, Total	4/14/21 13:48	4/16/21 14:31		1.015	0.487	mg/L	0.169505	0.5075	J	
* Manganese, Total	4/14/21 13:48	4/16/21 14:31		1.015	0.0725	mg/L	0.000068	0.000203		
* Selenium, Total	4/14/21 13:48	4/16/21 14:31		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Thallium, Total	4/14/21 13:48	4/16/21 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	4/16/21 08:30	4/16/21 15:57		1.015	0.0769	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	4/16/21 09:34	4/19/21 11:01		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	4/16/21 09:58	4/16/21 11:30		1	94.6	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW								
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	145	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39 DUP

Location Code: WMWGASAP
Collected: 4/12/21 10:08
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06912

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	94.1	mg/L			
Carbonate Alkalinity, (calc.)	4/16/21 09:58	4/16/21 11:30		1	0.56	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/15/21 10:15	4/15/21 10:15		1	2.95	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 12:44	4/15/21 12:44		1	0.151	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 13:29	4/13/21 13:29		1	14.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/12/21 10:05	4/12/21 10:05			251.69	uS/cm			FA
pH	4/12/21 10:05	4/12/21 10:05			7.09	SU			FA
Temperature	4/12/21 10:05	4/12/21 10:05			17.98	C			FA
Turbidity	4/12/21 10:05	4/12/21 10:05			1.62	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 10:08
Customer ID:
Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond - MW-39 DUP

Laboratory ID Number: BB06912

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06994	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0876	0.0895	0.0893	0.0850 to 0.115	87.6	70.0 to 130	2.15	20.0
BB06915	Mercury, Total by CVAA	mg/L	0.0000162	0.000500	0.004	0.00345	0.00342	0.00365	0.00340 to 0.00460	86.2	70.0 to 130	0.873	20.0
BB06994	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB06994	Iron, Total	mg/L	0.000123	0.0176	0.2	0.274	0.298	0.200	0.170 to 0.230	112	70.0 to 130	8.39	20.0
BB06994	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0983	0.0996	0.0850 to 0.115	95.0	70.0 to 130	3.41	20.0
BB06994	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0981	0.0982	0.100	0.0850 to 0.115	98.0	70.0 to 130	0.102	20.0
BB06994	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0923	0.0950	0.0938	0.0850 to 0.115	92.3	70.0 to 130	2.88	20.0
BB06994	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0978	0.0999	0.101	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BB06994	Calcium, Total	mg/L	-0.00194	0.152	5.00	27.9	28.0	5.10	4.25 to 5.75	98.0	70.0 to 130	0.358	20.0
BB06994	Potassium, Total	mg/L	-0.00872	0.367	10.0	11.2	11.3	9.85	8.50 to 11.5	99.9	70.0 to 130	0.889	20.0
BB06994	Sodium, Total	mg/L	0.000392	0.0660	5.00	8.83	8.87	4.84	4.25 to 5.75	102	70.0 to 130	0.452	20.0
BB06994	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0984	0.0988	0.0991	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BB06912	Manganese, Dissolved	mg/L	0.000014	0.000147	0.10	0.181	0.183	0.106	0.0850 to 0.115	104	70.0 to 130	1.14	20.0
BB06994	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	18.2	18.4	5.09	4.25 to 5.75	98.0	70.0 to 130	1.09	20.0
BB06994	Boron, Total	mg/L	0.000919	0.0650	1.00	1.02	1.03	1.04	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB06994	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0983	0.0993	0.0984	0.0850 to 0.115	97.4	70.0 to 130	1.01	20.0
BB06997	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.204	0.198	0.202	0.170 to 0.230	102	70.0 to 130	2.99	20.0
BB06994	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.106	0.107	0.0948	0.0850 to 0.115	95.2	70.0 to 130	0.939	20.0
BB06994	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0954	0.0939	0.0960	0.0850 to 0.115	95.4	70.0 to 130	1.58	20.0
BB06994	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.202	0.204	0.191	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BB06994	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.139	0.140	0.101	0.0850 to 0.115	99.9	70.0 to 130	0.717	20.0
BB06994	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0953	0.0965	0.0976	0.0850 to 0.115	94.8	70.0 to 130	1.25	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 10:08
Customer ID:
Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond - MW-39 DUP

Laboratory ID Number: BB06912

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06916	Fluoride	mg/L	0.019	0.100	2.50	2.62	0.0622	2.55	2.25 to 2.75	102	80.0 to 120	16.4	20.0
BB06912	Alkalinity, Total as CaCO3	mg/L					98.8	50.4	45.0 to 55.0			4.34	10.0
BB06996	Solids, Dissolved	mg/L	1.00	25.0			127	52.0	40.0 to 60.0			0.781	5.00
BB06916	Chloride	mg/L	-0.074	1.00	30.0	53.7	23.4	9.93	9.00 to 11.0	97.7	80.0 to 120	4.18	20.0
BB06916	Sulfate	mg/L	-0.614	1.00	1000	1410	496	18.7	18.0 to 22.0	91.1	80.0 to 120	0.603	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-5

Location Code: WMWGASAPFB
Collected: 4/12/21 10:35
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06913

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 11:17		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/19/21 12:02	4/20/21 11:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/19/21 12:02	4/20/21 11:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 11:17		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	4/19/21 12:02	4/20/21 11:17		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 14:35		1.015	0.000216	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/16/21 09:34	4/19/21 11:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	4/15/21 10:16	4/15/21 10:16		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 12:45	4/15/21 12:45		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 13:30	4/13/21 13:30		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB
Sample Date: 4/12/21 10:35
Customer ID:
Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BB06913

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06994	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0876	0.0895	0.0893	0.0850 to 0.115	87.6	70.0 to 130	2.15	20.0
BB06994	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	18.2	18.4	5.09	4.25 to 5.75	98.0	70.0 to 130	1.09	20.0
BB06994	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0983	0.0996	0.0850 to 0.115	95.0	70.0 to 130	3.41	20.0
BB06994	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0981	0.0982	0.100	0.0850 to 0.115	98.0	70.0 to 130	0.102	20.0
BB06994	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0923	0.0950	0.0938	0.0850 to 0.115	92.3	70.0 to 130	2.88	20.0
BB06994	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0978	0.0999	0.101	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BB06994	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.202	0.204	0.191	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BB06994	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.139	0.140	0.101	0.0850 to 0.115	99.9	70.0 to 130	0.717	20.0
BB06994	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0953	0.0965	0.0976	0.0850 to 0.115	94.8	70.0 to 130	1.25	20.0
BB06994	Boron, Total	mg/L	0.000919	0.0650	1.00	1.02	1.03	1.04	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB06994	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0983	0.0993	0.0984	0.0850 to 0.115	97.4	70.0 to 130	1.01	20.0
BB06915	Mercury, Total by CVAA	mg/L	0.0000162	0.000500	0.004	0.00345	0.00342	0.00365	0.00340 to 0.00460	86.2	70.0 to 130	0.873	20.0
BB06994	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB06994	Iron, Total	mg/L	0.000123	0.0176	0.2	0.274	0.298	0.200	0.170 to 0.230	112	70.0 to 130	8.39	20.0
BB06994	Calcium, Total	mg/L	-0.00194	0.152	5.00	27.9	28.0	5.10	4.25 to 5.75	98.0	70.0 to 130	0.358	20.0
BB06994	Potassium, Total	mg/L	-0.00872	0.367	10.0	11.2	11.3	9.85	8.50 to 11.5	99.9	70.0 to 130	0.889	20.0
BB06994	Sodium, Total	mg/L	0.000392	0.0660	5.00	8.83	8.87	4.84	4.25 to 5.75	102	70.0 to 130	0.452	20.0
BB06994	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0984	0.0988	0.0991	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BB06994	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.106	0.107	0.0948	0.0850 to 0.115	95.2	70.0 to 130	0.939	20.0
BB06994	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0954	0.0939	0.0960	0.0850 to 0.115	95.4	70.0 to 130	1.58	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 4/12/21 10:35

Customer ID:

Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BB06913

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB06996	Solids, Dissolved	mg/L	1.00	25.0			127	52.0	40.0 to 60.0			0.781	5.00
BB06916	Fluoride	mg/L	0.019	0.100	2.50	2.62	0.0622	2.55	2.25 to 2.75	102	80.0 to 120	16.4	20.0
BB06916	Chloride	mg/L	-0.074	1.00	30.0	53.7	23.4	9.93	9.00 to 11.0	97.7	80.0 to 120	4.18	20.0
BB06916	Sulfate	mg/L	-0.614	1.00	1000	1410	496	18.7	18.0 to 22.0	91.1	80.0 to 120	0.603	20.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP
Collected: 4/12/21 15:54
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06914

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:21		1.015	4.29	mg/L	0.030000	0.1015	
* Calcium, Total	4/19/21 12:02	4/20/21 14:07		10.15	161	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 11:21		1.015	0.0113	mg/L	0.008120	0.0406	J
* Lithium, Total	4/19/21 12:02	4/20/21 11:21		1.015	0.139	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/19/21 12:02	4/20/21 14:07		10.15	50.4	mg/L	0.21315	4.06	
* Sodium, Total	4/19/21 12:02	4/20/21 11:21		1.015	28.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/19/21 13:00	4/21/21 10:26		1.015	0.0119	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 14:39		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 14:39		1.015	0.00368	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 14:39		1.015	0.0589	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 14:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 14:39		1.015	0.000123	mg/L	0.000068	0.000203	J
* Chromium, Total	4/14/21 13:48	4/16/21 14:39		1.015	0.000380	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 14:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 14:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 14:39		1.015	0.811	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 14:39		1.015	10.2	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 14:39		1.015	0.00287	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 14:39		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 14:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 16:27		1.015	0.00282	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/16/21 09:34	4/19/21 11:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/23/21 10:33	4/23/21 10:55		1	57.7	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	926	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP
Collected: 4/12/21 15:54
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06914

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	56.8	mg/L			
Carbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	0.85	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/15/21 10:17	4/15/21 10:17		1	19.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 12:46	4/15/21 12:46		1	0.0644	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 13:31	4/13/21 13:31		40	547	mg/L	20.00	40	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/12/21 15:50	4/12/21 15:50			1168.63	uS/cm			FA
pH	4/12/21 15:50	4/12/21 15:50			7.96	SU			FA
Temperature	4/12/21 15:50	4/12/21 15:50			20.19	C			FA
Turbidity	4/12/21 15:50	4/12/21 15:50			0.45	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/12/21 15:54

Customer ID:

Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BB06914

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06994	Beryllium, Total	mg/L	0.000281	0.000880	0.10	0.0876	0.0895	0.0893	0.0850 to 0.115	87.6	70.0 to 130	2.15	20.0
BB06994	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	18.2	18.4	5.09	4.25 to 5.75	98.0	70.0 to 130	1.09	20.0
BB06994	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0983	0.0996	0.0850 to 0.115	95.0	70.0 to 130	3.41	20.0
BB06994	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0981	0.0982	0.100	0.0850 to 0.115	98.0	70.0 to 130	0.102	20.0
BB06994	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0923	0.0950	0.0938	0.0850 to 0.115	92.3	70.0 to 130	2.88	20.0
BB06994	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0978	0.0999	0.101	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BB06994	Boron, Total	mg/L	0.000919	0.0650	1.00	1.02	1.03	1.04	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB06994	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0983	0.0993	0.0984	0.0850 to 0.115	97.4	70.0 to 130	1.01	20.0
BB06997	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.204	0.198	0.202	0.170 to 0.230	102	70.0 to 130	2.99	20.0
BB06994	Calcium, Total	mg/L	-0.00194	0.152	5.00	27.9	28.0	5.10	4.25 to 5.75	98.0	70.0 to 130	0.358	20.0
BB06994	Potassium, Total	mg/L	-0.00872	0.367	10.0	11.2	11.3	9.85	8.50 to 11.5	99.9	70.0 to 130	0.889	20.0
BB06994	Sodium, Total	mg/L	0.000392	0.0660	5.00	8.83	8.87	4.84	4.25 to 5.75	102	70.0 to 130	0.452	20.0
BB06994	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0984	0.0988	0.0991	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BB06994	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.202	0.204	0.191	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BB06994	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.139	0.140	0.101	0.0850 to 0.115	99.9	70.0 to 130	0.717	20.0
BB06994	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0953	0.0965	0.0976	0.0850 to 0.115	94.8	70.0 to 130	1.25	20.0
BB06994	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.106	0.107	0.0948	0.0850 to 0.115	95.2	70.0 to 130	0.939	20.0
BB06994	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0954	0.0939	0.0960	0.0850 to 0.115	95.4	70.0 to 130	1.58	20.0
BB06998	Manganese, Dissolved	mg/L	0.0000157	0.000147	0.10	2.95	2.88	0.107	0.0850 to 0.115	121	70.0 to 130	2.27	20.0
BB06915	Mercury, Total by CVAA	mg/L	0.0000162	0.000500	0.004	0.00345	0.00342	0.00365	0.00340 to 0.00460	86.2	70.0 to 130	0.873	20.0
BB06994	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB06994	Iron, Total	mg/L	0.000123	0.0176	0.2	0.274	0.298	0.200	0.170 to 0.230	112	70.0 to 130	8.39	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/12/21 15:54

Customer ID:

Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BB06914

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06916	Fluoride	mg/L	0.019	0.100	2.50	2.62	0.0622	2.55	2.25 to 2.75	102	80.0 to 120	16.4	20.0
BB06996	Solids, Dissolved	mg/L	1.00	25.0			127	52.0	40.0 to 60.0			0.781	5.00
BB06998	Alkalinity, Total as CaCO3	mg/L					71.36	50.34	45.0 to 55.0			5.59	10.0
BB06916	Chloride	mg/L	-0.074	1.00	30.0	53.7	23.4	9.93	9.00 to 11.0	97.7	80.0 to 120	4.18	20.0
BB06916	Sulfate	mg/L	-0.614	1.00	1000	1410	496	18.7	18.0 to 22.0	91.1	80.0 to 120	0.603	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP
Collected: 4/12/21 17:33
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06915

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:24		1.015	3.13	mg/L	0.030000	0.1015	
* Calcium, Total	4/19/21 12:02	4/20/21 14:10		10.15	132	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 14:10		10.15	9.00	mg/L	0.08120	0.406	
* Lithium, Total	4/19/21 12:02	4/20/21 11:24		1.015	0.00768	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/19/21 12:02	4/20/21 14:10		10.15	50.2	mg/L	0.21315	4.06	
* Sodium, Total	4/19/21 12:02	4/20/21 11:24		1.015	17.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/19/21 13:00	4/21/21 12:52		10.15	8.28	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 14:42		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 14:42		1.015	0.00339	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 14:42		1.015	0.127	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 14:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 14:42		1.015	0.000305	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 14:42		1.015	0.000454	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 14:42		1.015	0.146	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 14:42		1.015	0.799	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 14:42		1.015	0.169	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 14:42		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 16:30		1.015	0.181	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/16/21 09:34	4/19/21 11:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/23/21 10:33	4/23/21 10:55		1	164	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	768	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP
Collected: 4/12/21 17:33
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06915

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	164	mg/L			
Carbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	0.18	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/15/21 10:18	4/15/21 10:18		1	19.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 12:48	4/15/21 12:48		1	0.108	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 13:33	4/13/21 13:33		25	421	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/12/21 17:31	4/12/21 17:31			1024.82	uS/cm			FA
pH	4/12/21 17:31	4/12/21 17:31			7.02	SU			FA
Temperature	4/12/21 17:31	4/12/21 17:31			19.59	C			FA
Turbidity	4/12/21 17:31	4/12/21 17:31			9.82	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 17:33
Customer ID:
Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BB06915

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06994	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0876	0.0895	0.0893	0.0850 to 0.115	87.6	70.0 to 130	2.15	20.0
BB06994	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	18.2	18.4	5.09	4.25 to 5.75	98.0	70.0 to 130	1.09	20.0
BB06994	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.202	0.204	0.191	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BB06994	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.139	0.140	0.101	0.0850 to 0.115	99.9	70.0 to 130	0.717	20.0
BB06994	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0953	0.0965	0.0976	0.0850 to 0.115	94.8	70.0 to 130	1.25	20.0
BB06994	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0983	0.0996	0.0850 to 0.115	95.0	70.0 to 130	3.41	20.0
BB06994	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0981	0.0982	0.100	0.0850 to 0.115	98.0	70.0 to 130	0.102	20.0
BB06994	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0923	0.0950	0.0938	0.0850 to 0.115	92.3	70.0 to 130	2.88	20.0
BB06994	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0978	0.0999	0.101	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BB06994	Boron, Total	mg/L	0.000919	0.0650	1.00	1.02	1.03	1.04	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB06994	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0983	0.0993	0.0984	0.0850 to 0.115	97.4	70.0 to 130	1.01	20.0
BB06997	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.204	0.198	0.202	0.170 to 0.230	102	70.0 to 130	2.99	20.0
BB06994	Calcium, Total	mg/L	-0.00194	0.152	5.00	27.9	28.0	5.10	4.25 to 5.75	98.0	70.0 to 130	0.358	20.0
BB06994	Potassium, Total	mg/L	-0.00872	0.367	10.0	11.2	11.3	9.85	8.50 to 11.5	99.9	70.0 to 130	0.889	20.0
BB06994	Sodium, Total	mg/L	0.000392	0.0660	5.00	8.83	8.87	4.84	4.25 to 5.75	102	70.0 to 130	0.452	20.0
BB06994	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0984	0.0988	0.0991	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BB06994	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.106	0.107	0.0948	0.0850 to 0.115	95.2	70.0 to 130	0.939	20.0
BB06994	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0954	0.0939	0.0960	0.0850 to 0.115	95.4	70.0 to 130	1.58	20.0
BB06998	Manganese, Dissolved	mg/L	0.0000157	0.000147	0.10	2.95	2.88	0.107	0.0850 to 0.115	121	70.0 to 130	2.27	20.0
BB06915	Mercury, Total by CVAA	mg/L	0.0000162	0.000500	0.004	0.00345	0.00342	0.00365	0.00340 to 0.00460	86.2	70.0 to 130	0.873	20.0
BB06994	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB06994	Iron, Total	mg/L	0.000123	0.0176	0.2	0.274	0.298	0.200	0.170 to 0.230	112	70.0 to 130	8.39	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 17:33
Customer ID:
Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BB06915

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06916	Fluoride	mg/L	0.019	0.100	2.50	2.62	0.0622	2.55	2.25 to 2.75	102	80.0 to 120	16.4	20.0
BB06996	Solids, Dissolved	mg/L	1.00	25.0			127	52.0	40.0 to 60.0			0.781	5.00
BB06998	Alkalinity, Total as CaCO3	mg/L					71.36	50.34	45.0 to 55.0			5.59	10.0
BB06916	Chloride	mg/L	-0.074	1.00	30.0	53.7	23.4	9.93	9.00 to 11.0	97.7	80.0 to 120	4.18	20.0
BB06916	Sulfate	mg/L	-0.614	1.00	1000	1410	496	18.7	18.0 to 22.0	91.1	80.0 to 120	0.603	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 4/12/21 19:01
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06916

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:28		1.015	3.05	mg/L	0.030000	0.1015	
* Calcium, Total	4/19/21 12:02	4/20/21 14:14		10.15	121	mg/L	0.70035	4.06	
* Iron, Total	4/19/21 12:02	4/20/21 11:28		1.015	0.320	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 11:28		1.015	0.0463	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/19/21 12:02	4/20/21 14:14		10.15	67.5	mg/L	0.21315	4.06	
* Sodium, Total	4/19/21 12:02	4/20/21 11:28		1.015	19.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	4/19/21 13:00	4/21/21 10:33		1.015	0.243	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 14:46		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 14:46		1.015	0.00200	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 14:46		1.015	0.0273	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 14:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 14:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 14:46		1.015	0.000634	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 14:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 14:46		1.015	0.000234	mg/L	0.000068	0.000203	
* Molybdenum, Total	4/14/21 13:48	4/16/21 14:46		1.015	0.311	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 14:46		1.015	0.381	mg/L	0.169505	0.5075	J
* Manganese, Total	4/14/21 13:48	4/16/21 14:46		1.015	0.0161	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 14:46		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 14:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	4/16/21 08:30	4/16/21 16:34		1.015	0.0153	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/23/21 10:33	4/23/21 10:55		1	76.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	844	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 4/12/21 19:01
Customer ID:
Submittal Date: 4/13/21 11:22

Laboratory ID Number: BB06916

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	74.8	mg/L			
Carbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	1.34	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/15/21 10:32	4/15/21 10:32		3	24.4	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 12:49	4/15/21 12:49		1	0.0733	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/13/21 13:34	4/13/21 13:34		50	499	mg/L	25.00	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/12/21 18:57	4/12/21 18:57			1074.76	uS/cm			FA
pH	4/12/21 18:57	4/12/21 18:57			8.14	SU			FA
Temperature	4/12/21 18:57	4/12/21 18:57			19.12	C			FA
Turbidity	4/12/21 18:57	4/12/21 18:57			9.54	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 19:01
Customer ID:
Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BB06916

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB06994	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	18.2	18.4	5.09	4.25 to 5.75	98.0	70.0 to 130	1.09	20.0
BB06994	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0876	0.0895	0.0893	0.0850 to 0.115	87.6	70.0 to 130	2.15	20.0
BB06994	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB06994	Iron, Total	mg/L	0.000123	0.0176	0.2	0.274	0.298	0.200	0.170 to 0.230	112	70.0 to 130	8.39	20.0
BB06994	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0983	0.0996	0.0850 to 0.115	95.0	70.0 to 130	3.41	20.0
BB06994	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0981	0.0982	0.100	0.0850 to 0.115	98.0	70.0 to 130	0.102	20.0
BB06994	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0923	0.0950	0.0938	0.0850 to 0.115	92.3	70.0 to 130	2.88	20.0
BB06994	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0978	0.0999	0.101	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BB06994	Boron, Total	mg/L	0.000919	0.0650	1.00	1.02	1.03	1.04	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB06994	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0983	0.0993	0.0984	0.0850 to 0.115	97.4	70.0 to 130	1.01	20.0
BB06997	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.204	0.198	0.202	0.170 to 0.230	102	70.0 to 130	2.99	20.0
BB06994	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.202	0.204	0.191	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BB06994	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.139	0.140	0.101	0.0850 to 0.115	99.9	70.0 to 130	0.717	20.0
BB06994	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0953	0.0965	0.0976	0.0850 to 0.115	94.8	70.0 to 130	1.25	20.0
BB06999	Mercury, Total by CVAA	mg/L	-0.0000283	0.000500	0.004	0.00366	0.00371	0.00379	0.00340 to 0.00460	91.6	70.0 to 130	1.21	20.0
BB06994	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.106	0.107	0.0948	0.0850 to 0.115	95.2	70.0 to 130	0.939	20.0
BB06994	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0954	0.0939	0.0960	0.0850 to 0.115	95.4	70.0 to 130	1.58	20.0
BB06998	Manganese, Dissolved	mg/L	0.0000157	0.000147	0.10	2.95	2.88	0.107	0.0850 to 0.115	121	70.0 to 130	2.27	20.0
BB06994	Calcium, Total	mg/L	-0.00194	0.152	5.00	27.9	28.0	5.10	4.25 to 5.75	98.0	70.0 to 130	0.358	20.0
BB06994	Potassium, Total	mg/L	-0.00872	0.367	10.0	11.2	11.3	9.85	8.50 to 11.5	99.9	70.0 to 130	0.889	20.0
BB06994	Sodium, Total	mg/L	0.000392	0.0660	5.00	8.83	8.87	4.84	4.25 to 5.75	102	70.0 to 130	0.452	20.0
BB06994	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0984	0.0988	0.0991	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/12/21 19:01

Customer ID:

Delivery Date: 4/13/21 11:22

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BB06916

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06996	Solids, Dissolved	mg/L	1.00	25.0			127	52.0	40.0 to 60.0			0.781	5.00
BB06916	Fluoride	mg/L	0.019	0.100	2.50	2.62	0.0622	2.55	2.25 to 2.75	102	80.0 to 120	16.4	20.0
BB06998	Alkalinity, Total as CaCO3	mg/L					71.36	50.34	45.0 to 55.0			5.59	10.0
BB06916	Chloride	mg/L	-0.074	1.00	30.0	53.7	23.4	9.93	9.00 to 11.0	97.7	80.0 to 120	4.18	20.0
BB06916	Sulfate	mg/L	-0.614	1.00	1000	1410	496	18.7	18.0 to 22.0	91.1	80.0 to 120	0.603	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP
Collected: 4/12/21 11:20
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06993

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:31		1.015	0.0342	mg/L	0.030000	0.1015	J
* Calcium, Total	4/19/21 12:02	4/20/21 11:31		1.015	22.9	mg/L	0.070035	0.406	
* Iron, Total	4/19/21 12:02	4/20/21 11:31		1.015	0.0425	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 11:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 11:31		1.015	13.2	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 11:31		1.015	3.71	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/19/21 13:00	4/21/21 10:36		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 14:49		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 14:49		1.015	0.000195	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 14:49		1.015	0.0107	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 14:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 14:49		1.015	0.000871	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 14:49		1.015	0.000109	mg/L	0.000068	0.000203	J
* Lead, Total	4/14/21 13:48	4/16/21 14:49		1.015	0.000114	mg/L	0.000068	0.000203	J
* Molybdenum, Total	4/14/21 13:48	4/16/21 14:49		1.015	0.000473	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 14:49		1.015	1.13	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 14:49		1.015	0.0379	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 14:49		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 16:38		1.015	0.0252	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/23/21 10:33	4/23/21 10:55		1	128	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	118	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP
Collected: 4/12/21 11:20
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06993

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	127	mg/L			
Carbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	1.57	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/15/21 10:45	4/15/21 10:45		1	4.13	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 13:00	4/15/21 13:00		1	0.0651	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/14/21 11:50	4/14/21 11:50		1	7.23	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/12/21 11:14	4/12/21 11:14			217.93	uS/cm			FA
pH	4/12/21 11:14	4/12/21 11:14			7.77	SU			FA
Temperature	4/12/21 11:14	4/12/21 11:14			18.53	C			FA
Turbidity	4/12/21 11:14	4/12/21 11:14			9.95	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 11:20
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BB06993

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06994	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0876	0.0895	0.0893	0.0850 to 0.115	87.6	70.0 to 130	2.15	20.0
BB06994	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	18.2	18.4	5.09	4.25 to 5.75	98.0	70.0 to 130	1.09	20.0
BB06994	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB06994	Iron, Total	mg/L	0.000123	0.0176	0.2	0.274	0.298	0.200	0.170 to 0.230	112	70.0 to 130	8.39	20.0
BB06994	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0983	0.0996	0.0850 to 0.115	95.0	70.0 to 130	3.41	20.0
BB06994	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0981	0.0982	0.100	0.0850 to 0.115	98.0	70.0 to 130	0.102	20.0
BB06994	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0923	0.0950	0.0938	0.0850 to 0.115	92.3	70.0 to 130	2.88	20.0
BB06994	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0978	0.0999	0.101	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BB06994	Calcium, Total	mg/L	-0.00194	0.152	5.00	27.9	28.0	5.10	4.25 to 5.75	98.0	70.0 to 130	0.358	20.0
BB06994	Potassium, Total	mg/L	-0.00872	0.367	10.0	11.2	11.3	9.85	8.50 to 11.5	99.9	70.0 to 130	0.889	20.0
BB06994	Sodium, Total	mg/L	0.000392	0.0660	5.00	8.83	8.87	4.84	4.25 to 5.75	102	70.0 to 130	0.452	20.0
BB06994	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0984	0.0988	0.0991	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BB06994	Boron, Total	mg/L	0.000919	0.0650	1.00	1.02	1.03	1.04	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB06994	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0983	0.0993	0.0984	0.0850 to 0.115	97.4	70.0 to 130	1.01	20.0
BB06997	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.204	0.198	0.202	0.170 to 0.230	102	70.0 to 130	2.99	20.0
BB06994	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.202	0.204	0.191	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BB06994	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.139	0.140	0.101	0.0850 to 0.115	99.9	70.0 to 130	0.717	20.0
BB06994	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0953	0.0965	0.0976	0.0850 to 0.115	94.8	70.0 to 130	1.25	20.0
BB06999	Mercury, Total by CVAA	mg/L	-0.0000283	0.000500	0.004	0.00366	0.00371	0.00379	0.00340 to 0.00460	91.6	70.0 to 130	1.21	20.0
BB06994	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.106	0.107	0.0948	0.0850 to 0.115	95.2	70.0 to 130	0.939	20.0
BB06994	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0954	0.0939	0.0960	0.0850 to 0.115	95.4	70.0 to 130	1.58	20.0
BB06998	Manganese, Dissolved	mg/L	0.0000157	0.000147	0.10	2.95	2.88	0.107	0.0850 to 0.115	121	70.0 to 130	2.27	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 4/12/21 11:20

Customer ID:

Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BB06993

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06998	Alkalinity, Total as CaCO3	mg/L					71.36	50.34	45.0 to 55.0			5.59	10.0
BB06999	Fluoride	mg/L	0.0171	0.100	2.50	2.58	0.0162	2.53	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB06999	Sulfate	mg/L	-0.594	1.00	20.0	18.9	-0.636	19.0	18.0 to 22.0	94.5	80.0 to 120	0.00	20.0
BB06996	Solids, Dissolved	mg/L	1.00	25.0			127	52.0	40.0 to 60.0			0.781	5.00
BB06999	Chloride	mg/L	-0.0442	1.00	10.0	9.98	0.0615	9.95	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40 DUP

Location Code: WMWGASAP
Collected: 4/12/21 11:20
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06994

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:34		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 11:34		1.015	23.0	mg/L	0.070035	0.406	
* Iron, Total	4/19/21 12:02	4/20/21 11:34		1.015	0.0496	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 11:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 11:34		1.015	13.3	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 11:34		1.015	3.72	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/19/21 13:00	4/21/21 10:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 14:53		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 14:53		1.015	0.000129	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 14:53		1.015	0.0108	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 14:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 14:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 14:53		1.015	0.000929	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 14:53		1.015	0.0000954	mg/L	0.000068	0.000203	J
* Lead, Total	4/14/21 13:48	4/16/21 14:53		1.015	0.000119	mg/L	0.000068	0.000203	J
* Molybdenum, Total	4/14/21 13:48	4/16/21 14:53		1.015	0.000459	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 14:53		1.015	1.21	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 14:53		1.015	0.0391	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 14:53		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 14:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 16:42		1.015	0.0245	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/23/21 10:33	4/23/21 10:55		1	119	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	121	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40 DUP

Location Code: WMWGASAP
Collected: 4/12/21 11:20
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06994

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	117	mg/L			
Carbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	1.59	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/15/21 10:46	4/15/21 10:46		1	4.14	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 13:02	4/15/21 13:02		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/14/21 11:56	4/14/21 11:56		1	6.69	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/12/21 11:14	4/12/21 11:14			217.93	uS/cm			FA
pH	4/12/21 11:14	4/12/21 11:14			7.77	SU			FA
Temperature	4/12/21 11:14	4/12/21 11:14			18.53	C			FA
Turbidity	4/12/21 11:14	4/12/21 11:14			9.95	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 11:20
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-40 DUP

Laboratory ID Number: BB06994

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06994	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0876	0.0895	0.0893	0.0850 to 0.115	87.6	70.0 to 130	2.15	20.0
BB06994	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	18.2	18.4	5.09	4.25 to 5.75	98.0	70.0 to 130	1.09	20.0
BB06994	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB06994	Iron, Total	mg/L	0.000123	0.0176	0.2	0.274	0.298	0.200	0.170 to 0.230	112	70.0 to 130	8.39	20.0
BB06994	Boron, Total	mg/L	0.000919	0.0650	1.00	1.02	1.03	1.04	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB06994	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0983	0.0993	0.0984	0.0850 to 0.115	97.4	70.0 to 130	1.01	20.0
BB06997	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.204	0.198	0.202	0.170 to 0.230	102	70.0 to 130	2.99	20.0
BB06994	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0950	0.0983	0.0996	0.0850 to 0.115	95.0	70.0 to 130	3.41	20.0
BB06994	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0981	0.0982	0.100	0.0850 to 0.115	98.0	70.0 to 130	0.102	20.0
BB06994	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0923	0.0950	0.0938	0.0850 to 0.115	92.3	70.0 to 130	2.88	20.0
BB06994	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0978	0.0999	0.101	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BB06994	Calcium, Total	mg/L	-0.00194	0.152	5.00	27.9	28.0	5.10	4.25 to 5.75	98.0	70.0 to 130	0.358	20.0
BB06994	Potassium, Total	mg/L	-0.00872	0.367	10.0	11.2	11.3	9.85	8.50 to 11.5	99.9	70.0 to 130	0.889	20.0
BB06994	Sodium, Total	mg/L	0.000392	0.0660	5.00	8.83	8.87	4.84	4.25 to 5.75	102	70.0 to 130	0.452	20.0
BB06994	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0984	0.0988	0.0991	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BB06994	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.202	0.204	0.191	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BB06994	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.139	0.140	0.101	0.0850 to 0.115	99.9	70.0 to 130	0.717	20.0
BB06994	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0953	0.0965	0.0976	0.0850 to 0.115	94.8	70.0 to 130	1.25	20.0
BB06999	Mercury, Total by CVAA	mg/L	-0.0000283	0.000500	0.004	0.00366	0.00371	0.00379	0.00340 to 0.00460	91.6	70.0 to 130	1.21	20.0
BB06994	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.106	0.107	0.0948	0.0850 to 0.115	95.2	70.0 to 130	0.939	20.0
BB06994	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0954	0.0939	0.0960	0.0850 to 0.115	95.4	70.0 to 130	1.58	20.0
BB06998	Manganese, Dissolved	mg/L	0.0000157	0.000147	0.10	2.95	2.88	0.107	0.0850 to 0.115	121	70.0 to 130	2.27	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 11:20
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-40 DUP

Laboratory ID Number: BB06994

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06998	Alkalinity, Total as CaCO3	mg/L					71.36	50.34	45.0 to 55.0			5.59	10.0
BB06999	Fluoride	mg/L	0.0171	0.100	2.50	2.58	0.0162	2.53	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB06999	Sulfate	mg/L	-0.594	1.00	20.0	18.9	-0.636	19.0	18.0 to 22.0	94.5	80.0 to 120	0.00	20.0
BB06996	Solids, Dissolved	mg/L	1.00	25.0			127	52.0	40.0 to 60.0			0.781	5.00
BB06999	Chloride	mg/L	-0.0442	1.00	10.0	9.98	0.0615	9.95	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP
Collected: 4/12/21 13:27
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06995

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:51		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 11:51		1.015	26.6	mg/L	0.070035	0.406	
* Iron, Total	4/19/21 12:02	4/20/21 11:51		1.015	0.0295	mg/L	0.008120	0.0406	J
* Lithium, Total	4/19/21 12:02	4/20/21 11:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 11:51		1.015	15.8	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 11:51		1.015	1.18	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/19/21 13:00	4/21/21 10:43		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 15:14		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 15:14		1.015	0.000179	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 15:14		1.015	0.0155	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 15:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 15:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 15:14		1.015	0.000441	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 15:14		1.015	0.000167	mg/L	0.000068	0.000203	J
* Lead, Total	4/14/21 13:48	4/16/21 15:14		1.015	0.000122	mg/L	0.000068	0.000203	J
* Molybdenum, Total	4/14/21 13:48	4/16/21 15:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	4/14/21 13:48	4/16/21 15:14		1.015	0.509	mg/L	0.169505	0.5075	
* Manganese, Total	4/14/21 13:48	4/16/21 15:14		1.015	0.0203	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 15:14		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 15:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 16:45		1.015	0.000659	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/23/21 10:33	4/23/21 10:55		1	126	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	126	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP
Collected: 4/12/21 13:27
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06995

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	124	mg/L			
Carbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	1.28	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/15/21 10:48	4/15/21 10:48		1	3.05	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 13:03	4/15/21 13:03		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/14/21 11:53	4/14/21 11:53		1	2.99	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/12/21 13:23	4/12/21 13:23			237.00	uS/cm			FA
pH	4/12/21 13:23	4/12/21 13:23			7.18	SU			FA
Temperature	4/12/21 13:23	4/12/21 13:23			17.64	C			FA
Turbidity	4/12/21 13:23	4/12/21 13:23			9.02	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 13:27
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BB06995

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB06999	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.0999	0.102	0.101	0.0850 to 0.115	99.8	70.0 to 130	2.09	20.0
BB06999	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0973	0.0992	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.91	20.0
BB06999	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0948	0.0934	0.0938	0.0850 to 0.115	94.8	70.0 to 130	1.40	20.0
BB06999	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.0940	0.0982	0.0948	0.0850 to 0.115	94.0	70.0 to 130	4.32	20.0
BB06999	Boron, Total	mg/L	0.000919	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.0874	20.0
BB06997	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.204	0.198	0.202	0.170 to 0.230	102	70.0 to 130	2.99	20.0
BB06999	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0872	0.0875	0.0893	0.0850 to 0.115	87.2	70.0 to 130	0.304	20.0
BB06999	Sodium, Total	mg/L	0.000392	0.0660	5.00	4.88	4.86	4.84	4.25 to 5.75	97.5	70.0 to 130	0.326	20.0
BB06999	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0998	0.0991	0.0991	0.0850 to 0.115	99.8	70.0 to 130	0.710	20.0
BB06999	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0976	0.0977	0.101	0.0850 to 0.115	97.6	70.0 to 130	0.0959	20.0
BB06999	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0956	0.0954	0.0960	0.0850 to 0.115	95.6	70.0 to 130	0.236	20.0
BB06999	Calcium, Total	mg/L	-0.00194	0.152	5.00	4.97	4.92	5.10	4.25 to 5.75	99.5	70.0 to 130	1.10	20.0
BB06999	Iron, Total	mg/L	0.000123	0.0176	0.2	0.199	0.197	0.200	0.170 to 0.230	99.7	70.0 to 130	1.01	20.0
BB06999	Potassium, Total	mg/L	-0.00872	0.367	10.0	10.1	10.1	9.85	8.50 to 11.5	101	70.0 to 130	0.441	20.0
BB06999	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	5.03	4.97	5.09	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BB06999	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0977	0.0970	0.0996	0.0850 to 0.115	97.7	70.0 to 130	0.663	20.0
BB06999	Mercury, Total by CVAA	mg/L	-0.0000283	0.000500	0.004	0.00366	0.00371	0.00379	0.00340 to 0.00460	91.6	70.0 to 130	1.21	20.0
BB06998	Manganese, Dissolved	mg/L	0.0000157	0.000147	0.10	2.95	2.88	0.107	0.0850 to 0.115	121	70.0 to 130	2.27	20.0
BB06999	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	2.51	20.0
BB06999	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0966	0.0984	0.0984	0.0850 to 0.115	96.4	70.0 to 130	1.76	20.0
BB06999	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.196	0.196	0.191	0.170 to 0.230	98.1	70.0 to 130	0.190	20.0
BB06999	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0968	0.0974	0.0976	0.0850 to 0.115	96.8	70.0 to 130	0.634	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 13:27
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BB06995

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06998	Alkalinity, Total as CaCO3	mg/L					71.36	50.34	45.0 to 55.0			5.59	10.0
BB06996	Solids, Dissolved	mg/L	1.00	25.0			127	52.0	40.0 to 60.0			0.781	5.00
BB06999	Chloride	mg/L	-0.0442	1.00	10.0	9.98	0.0615	9.95	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BB06999	Fluoride	mg/L	0.0171	0.100	2.50	2.58	0.0162	2.53	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB06999	Sulfate	mg/L	-0.594	1.00	20.0	18.9	-0.636	19.0	18.0 to 22.0	94.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP
Collected: 4/12/21 17:25
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06996

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:55		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 11:55		1.015	23.2	mg/L	0.070035	0.406	
* Iron, Total	4/19/21 12:02	4/20/21 11:55		1.015	0.0666	mg/L	0.008120	0.0406	
* Lithium, Total	4/19/21 12:02	4/20/21 11:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 11:55		1.015	13.7	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 11:55		1.015	7.67	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/19/21 13:00	4/21/21 10:46		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 15:18		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 15:18		1.015	0.000283	mg/L	0.000068	0.000203	
* Barium, Total	4/14/21 13:48	4/16/21 15:18		1.015	0.00800	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 15:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 15:18		1.015	0.000599	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 15:18		1.015	0.0000961	mg/L	0.000068	0.000203	J
* Lead, Total	4/14/21 13:48	4/16/21 15:18		1.015	0.000124	mg/L	0.000068	0.000203	J
* Molybdenum, Total	4/14/21 13:48	4/16/21 15:18		1.015	0.000402	mg/L	0.000068	0.000203	
* Potassium, Total	4/14/21 13:48	4/16/21 15:18		1.015	0.200	mg/L	0.169505	0.5075	J
* Manganese, Total	4/14/21 13:48	4/16/21 15:18		1.015	0.0226	mg/L	0.000068	0.000203	
* Selenium, Total	4/14/21 13:48	4/16/21 15:18		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 16:49		1.015	0.0190	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/23/21 10:33	4/23/21 10:55		1	105	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	129	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP
Collected: 4/12/21 17:25
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06996

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	103	mg/L			
Carbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	2.32	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/15/21 10:49	4/15/21 10:49		1	5.88	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 13:04	4/15/21 13:04		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/14/21 11:54	4/14/21 11:54		1	12.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/12/21 17:20	4/12/21 17:20			232.03	uS/cm			FA
pH	4/12/21 17:20	4/12/21 17:20			7.99	SU			FA
Temperature	4/12/21 17:20	4/12/21 17:20			18.78	C			FA
Turbidity	4/12/21 17:20	4/12/21 17:20			9.48	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 17:25
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BB06996

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06999	Manganese, Total	mg/L	0.000099	0.000147	0.10	0.0999	0.102	0.101	0.0850 to 0.115	99.8	70.0 to 130	2.09	20.0
BB06999	Cobalt, Total	mg/L	-0.000052	0.000147	0.10	0.0973	0.0992	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.91	20.0
BB06999	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0948	0.0934	0.0938	0.0850 to 0.115	94.8	70.0 to 130	1.40	20.0
BB06999	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0977	0.0970	0.0996	0.0850 to 0.115	97.7	70.0 to 130	0.663	20.0
BB06999	Mercury, Total by CVAA	mg/L	-0.0000283	0.000500	0.004	0.00366	0.00371	0.00379	0.00340 to 0.00460	91.6	70.0 to 130	1.21	20.0
BB06999	Calcium, Total	mg/L	-0.00194	0.152	5.00	4.97	4.92	5.10	4.25 to 5.75	99.5	70.0 to 130	1.10	20.0
BB06999	Iron, Total	mg/L	0.000123	0.0176	0.2	0.199	0.197	0.200	0.170 to 0.230	99.7	70.0 to 130	1.01	20.0
BB06999	Potassium, Total	mg/L	-0.00872	0.367	10.0	10.1	10.1	9.85	8.50 to 11.5	101	70.0 to 130	0.441	20.0
BB06999	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	5.03	4.97	5.09	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BB06998	Manganese, Dissolved	mg/L	0.0000157	0.000147	0.10	2.95	2.88	0.107	0.0850 to 0.115	121	70.0 to 130	2.27	20.0
BB06999	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	2.51	20.0
BB06999	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0966	0.0984	0.0984	0.0850 to 0.115	96.4	70.0 to 130	1.76	20.0
BB06999	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.196	0.196	0.191	0.170 to 0.230	98.1	70.0 to 130	0.190	20.0
BB06999	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0968	0.0974	0.0976	0.0850 to 0.115	96.8	70.0 to 130	0.634	20.0
BB06997	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.204	0.198	0.202	0.170 to 0.230	102	70.0 to 130	2.99	20.0
BB06999	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0872	0.0875	0.0893	0.0850 to 0.115	87.2	70.0 to 130	0.304	20.0
BB06999	Sodium, Total	mg/L	0.000392	0.0660	5.00	4.88	4.86	4.84	4.25 to 5.75	97.5	70.0 to 130	0.326	20.0
BB06999	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0998	0.0991	0.0991	0.0850 to 0.115	99.8	70.0 to 130	0.710	20.0
BB06999	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0976	0.0977	0.101	0.0850 to 0.115	97.6	70.0 to 130	0.0959	20.0
BB06999	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0956	0.0954	0.0960	0.0850 to 0.115	95.6	70.0 to 130	0.236	20.0
BB06999	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.0940	0.0982	0.0948	0.0850 to 0.115	94.0	70.0 to 130	4.32	20.0
BB06999	Boron, Total	mg/L	0.000919	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.0874	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/21 17:25
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BB06996

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06998	Alkalinity, Total as CaCO3	mg/L					71.36	50.34	45.0 to 55.0			5.59	10.0
BB06999	Fluoride	mg/L	0.0171	0.100	2.50	2.58	0.0162	2.53	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB06999	Sulfate	mg/L	-0.594	1.00	20.0	18.9	-0.636	19.0	18.0 to 22.0	94.5	80.0 to 120	0.00	20.0
BB06996	Solids, Dissolved	mg/L	1.00	25.0			127	52.0	40.0 to 60.0			0.781	5.00
BB06999	Chloride	mg/L	-0.0442	1.00	10.0	9.98	0.0615	9.95	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP
Collected: 4/13/21 10:37
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06997

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 11:58		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 11:58		1.015	11.7	mg/L	0.070035	0.406	
* Iron, Total	4/19/21 12:02	4/20/21 11:58		1.015	0.00831	mg/L	0.008120	0.0406	J
* Lithium, Total	4/19/21 12:02	4/20/21 11:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 11:58		1.015	7.57	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 11:58		1.015	3.72	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/19/21 13:00	4/21/21 10:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 15:22		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 15:22		1.015	0.000163	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 15:22		1.015	0.0154	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 15:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 15:22		1.015	0.000855	mg/L	0.000068	0.000203	
* Chromium, Total	4/14/21 13:48	4/16/21 15:22		1.015	0.000307	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 15:22		1.015	0.00168	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 15:22		1.015	0.000176	mg/L	0.000068	0.000203	J
* Potassium, Total	4/14/21 13:48	4/16/21 15:22		1.015	0.271	mg/L	0.169505	0.5075	J
* Manganese, Total	4/14/21 13:48	4/16/21 15:50		5.075	2.66	mg/L	0.000340	0.001015	
* Selenium, Total	4/14/21 13:48	4/16/21 15:22		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 15:22		1.015	0.000150	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 17:19		5.075	2.83	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/23/21 10:33	4/23/21 10:55		1	60.5	mg/L		0.10	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	77.3	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

Location Code: WMWASAP
Collected: 4/13/21 10:37
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06997

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	60.5	mg/L			
Carbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	4/15/21 10:47	4/15/21 10:47		1	4.18	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 13:05	4/15/21 13:05		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/14/21 11:52	4/14/21 11:52		1	4.92	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/13/21 10:32	4/13/21 10:32			125.60	uS/cm			FA
pH	4/13/21 10:32	4/13/21 10:32			6.14	SU			FA
Temperature	4/13/21 10:32	4/13/21 10:32			18.58	C			FA
Turbidity	4/13/21 10:32	4/13/21 10:32			1.55	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/13/21 10:37
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BB06997

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB06999	Manganese, Total	mg/L	0.000099	0.000147	0.10	0.0999	0.102	0.101	0.0850 to 0.115	99.8	70.0 to 130	2.09	20.0
BB06999	Cobalt, Total	mg/L	-0.000052	0.000147	0.10	0.0973	0.0992	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.91	20.0
BB06999	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0948	0.0934	0.0938	0.0850 to 0.115	94.8	70.0 to 130	1.40	20.0
BB06999	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.0940	0.0982	0.0948	0.0850 to 0.115	94.0	70.0 to 130	4.32	20.0
BB06999	Boron, Total	mg/L	0.000919	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.0874	20.0
BB06999	Calcium, Total	mg/L	-0.00194	0.152	5.00	4.97	4.92	5.10	4.25 to 5.75	99.5	70.0 to 130	1.10	20.0
BB06999	Iron, Total	mg/L	0.000123	0.0176	0.2	0.199	0.197	0.200	0.170 to 0.230	99.7	70.0 to 130	1.01	20.0
BB06999	Potassium, Total	mg/L	-0.00872	0.367	10.0	10.1	10.1	9.85	8.50 to 11.5	101	70.0 to 130	0.441	20.0
BB06999	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	5.03	4.97	5.09	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BB06999	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0977	0.0970	0.0996	0.0850 to 0.115	97.7	70.0 to 130	0.663	20.0
BB06999	Mercury, Total by CVAA	mg/L	-0.0000283	0.000500	0.004	0.00366	0.00371	0.00379	0.00340 to 0.00460	91.6	70.0 to 130	1.21	20.0
BB06998	Manganese, Dissolved	mg/L	0.0000157	0.000147	0.10	2.95	2.88	0.107	0.0850 to 0.115	121	70.0 to 130	2.27	20.0
BB06999	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	2.51	20.0
BB06999	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0966	0.0984	0.0984	0.0850 to 0.115	96.4	70.0 to 130	1.76	20.0
BB06999	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.196	0.196	0.191	0.170 to 0.230	98.1	70.0 to 130	0.190	20.0
BB06999	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0968	0.0974	0.0976	0.0850 to 0.115	96.8	70.0 to 130	0.634	20.0
BB06997	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.204	0.198	0.202	0.170 to 0.230	102	70.0 to 130	2.99	20.0
BB06999	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0872	0.0875	0.0893	0.0850 to 0.115	87.2	70.0 to 130	0.304	20.0
BB06999	Sodium, Total	mg/L	0.000392	0.0660	5.00	4.88	4.86	4.84	4.25 to 5.75	97.5	70.0 to 130	0.326	20.0
BB06999	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0998	0.0991	0.0991	0.0850 to 0.115	99.8	70.0 to 130	0.710	20.0
BB06999	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0976	0.0977	0.101	0.0850 to 0.115	97.6	70.0 to 130	0.0959	20.0
BB06999	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0956	0.0954	0.0960	0.0850 to 0.115	95.6	70.0 to 130	0.236	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/13/21 10:37
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BB06997

Sample	Analysis	Units	MB	MB			Sample		Standard		Rec		Prec	Limit
				Limit	Spike	MS	Duplicate	Standard	Limit	Rec	Limit			
BB06999	Chloride	mg/L	-0.0442	1.00	10.0	9.98	0.0615	9.95	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0	
BB06999	Fluoride	mg/L	0.0171	0.100	2.50	2.58	0.0162	2.53	2.25 to 2.75	103	80.0 to 120	0.00	20.0	
BB06999	Sulfate	mg/L	-0.594	1.00	20.0	18.9	-0.636	19.0	18.0 to 22.0	94.5	80.0 to 120	0.00	20.0	
BB06998	Alkalinity, Total as CaCO3	mg/L					71.36	50.34	45.0 to 55.0			5.59	10.0	
BB06998	Solids, Dissolved	mg/L	1.00	25.0			78.7	52.0	40.0 to 60.0			0.855	5.00	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42 DUP

Location Code: WMWGASAP
Collected: 4/13/21 10:37
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06998

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 12:01		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 12:01		1.015	11.6	mg/L	0.070035	0.406	
* Iron, Total	4/19/21 12:02	4/20/21 12:01		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/19/21 12:02	4/20/21 12:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:01		1.015	7.58	mg/L	0.021315	0.406	
* Sodium, Total	4/19/21 12:02	4/20/21 12:01		1.015	3.74	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	4/19/21 13:00	4/21/21 11:06		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 15:25		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 15:25		1.015	0.000192	mg/L	0.000068	0.000203	J
* Barium, Total	4/14/21 13:48	4/16/21 15:25		1.015	0.0144	mg/L	0.000101	0.000203	
* Beryllium, Total	4/14/21 13:48	4/16/21 15:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 15:25		1.015	0.000839	mg/L	0.000068	0.000203	
* Chromium, Total	4/14/21 13:48	4/16/21 15:25		1.015	0.000241	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 15:25		1.015	0.00154	mg/L	0.000068	0.000203	
* Lead, Total	4/14/21 13:48	4/16/21 15:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 15:25		1.015	0.000162	mg/L	0.000068	0.000203	J
* Potassium, Total	4/14/21 13:48	4/16/21 15:25		1.015	0.258	mg/L	0.169505	0.5075	J
* Manganese, Total	4/14/21 13:48	4/16/21 15:54		5.075	2.63	mg/L	0.000340	0.001015	
* Selenium, Total	4/14/21 13:48	4/16/21 15:25		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 15:25		1.015	0.000145	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	4/16/21 08:30	4/16/21 17:23		5.075	2.83	mg/L	0.000340	0.001015	RA
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	4/23/21 10:33	4/23/21 10:55		1	67.5	mg/L		0.10	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	77.3	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42 DUP

Location Code: WMWGASAP
Collected: 4/13/21 10:37
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06998

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	67.4	mg/L			
Carbonate Alkalinity, (calc.)	4/23/21 10:33	4/23/21 10:55		1	0.04	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/15/21 10:50	4/15/21 10:50		1	4.26	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/15/21 13:06	4/15/21 13:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/14/21 11:55	4/14/21 11:55		1	4.81	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/13/21 10:32	4/13/21 10:32			125.60	uS/cm			FA
pH	4/13/21 10:32	4/13/21 10:32			6.14	SU			FA
Temperature	4/13/21 10:32	4/13/21 10:32			18.58	C			FA
Turbidity	4/13/21 10:32	4/13/21 10:32			1.55	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/13/21 10:37
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-42 DUP

Laboratory ID Number: BB06998

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB06999	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.0999	0.102	0.101	0.0850 to 0.115	99.8	70.0 to 130	2.09	20.0
BB06999	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0973	0.0992	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.91	20.0
BB06999	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0948	0.0934	0.0938	0.0850 to 0.115	94.8	70.0 to 130	1.40	20.0
BB06999	Calcium, Total	mg/L	-0.00194	0.152	5.00	4.97	4.92	5.10	4.25 to 5.75	99.5	70.0 to 130	1.10	20.0
BB06999	Iron, Total	mg/L	0.000123	0.0176	0.2	0.199	0.197	0.200	0.170 to 0.230	99.7	70.0 to 130	1.01	20.0
BB06999	Potassium, Total	mg/L	-0.00872	0.367	10.0	10.1	10.1	9.85	8.50 to 11.5	101	70.0 to 130	0.441	20.0
BB06999	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	5.03	4.97	5.09	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BB06999	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0977	0.0970	0.0996	0.0850 to 0.115	97.7	70.0 to 130	0.663	20.0
BB06999	Mercury, Total by CVAA	mg/L	-0.0000283	0.000500	0.004	0.00366	0.00371	0.00379	0.00340 to 0.00460	91.6	70.0 to 130	1.21	20.0
BB06999	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0872	0.0875	0.0893	0.0850 to 0.115	87.2	70.0 to 130	0.304	20.0
BB06999	Sodium, Total	mg/L	0.000392	0.0660	5.00	4.88	4.86	4.84	4.25 to 5.75	97.5	70.0 to 130	0.326	20.0
BB06999	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0998	0.0991	0.0991	0.0850 to 0.115	99.8	70.0 to 130	0.710	20.0
BB06999	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0976	0.0977	0.101	0.0850 to 0.115	97.6	70.0 to 130	0.0959	20.0
BB06999	Thallium, Total	mg/L	-0.0000008	0.000147	0.10	0.0956	0.0954	0.0960	0.0850 to 0.115	95.6	70.0 to 130	0.236	20.0
BB06998	Iron, Dissolved	mg/L	0.000107	0.0176	0.2	0.203	0.201	0.202	0.170 to 0.230	102	70.0 to 130	1.21	20.0
BB06999	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.0940	0.0982	0.0948	0.0850 to 0.115	94.0	70.0 to 130	4.32	20.0
BB06999	Boron, Total	mg/L	0.000919	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.0874	20.0
BB06998	Manganese, Dissolved	mg/L	0.0000157	0.000147	0.10	2.95	2.88	0.107	0.0850 to 0.115	121	70.0 to 130	2.27	20.0
BB06999	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	2.51	20.0
BB06999	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0966	0.0984	0.0984	0.0850 to 0.115	96.4	70.0 to 130	1.76	20.0
BB06999	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.196	0.196	0.191	0.170 to 0.230	98.1	70.0 to 130	0.190	20.0
BB06999	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0968	0.0974	0.0976	0.0850 to 0.115	96.8	70.0 to 130	0.634	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/13/21 10:37
Customer ID:
Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond - MW-42 DUP

Laboratory ID Number: BB06998

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB06999	Chloride	mg/L	-0.0442	1.00	10.0	9.98	0.0615	9.95	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BB06998	Alkalinity, Total as CaCO3	mg/L					71.36	50.34	45.0 to 55.0			5.59	10.0
BB06998	Solids, Dissolved	mg/L	1.00	25.0			78.7	52.0	40.0 to 60.0			0.855	5.00
BB06999	Fluoride	mg/L	0.0171	0.100	2.50	2.58	0.0162	2.53	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB06999	Sulfate	mg/L	-0.594	1.00	20.0	18.9	-0.636	19.0	18.0 to 22.0	94.5	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore dissolved data is qualified.
 LBM 5/11/21

Certificate Of Analysis

Description: Gaston Ash Pond Equipment Blank-1

Location Code: WMWGASAPEB
Collected: 4/13/21 11:30
Customer ID:
Submittal Date: 4/14/21 10:25

Laboratory ID Number: BB06999

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/19/21 12:02	4/20/21 12:05		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/19/21 12:02	4/20/21 12:05		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/19/21 12:02	4/20/21 12:05		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/19/21 12:02	4/20/21 12:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/19/21 12:02	4/20/21 12:05		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	4/19/21 12:02	4/20/21 12:05		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/14/21 13:48	4/16/21 15:29		1.015	0.000264	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/14/21 13:48	4/16/21 15:29		1.015	0.000104	mg/L	0.000068	0.000203	J
* Potassium, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	4/14/21 13:48	4/16/21 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	4/15/21 11:10	4/16/21 09:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	4/16/21 15:10	4/20/21 09:20		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	4/15/21 10:52	4/15/21 10:52		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	4/15/21 13:08	4/15/21 13:08		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	4/14/21 11:58	4/14/21 11:58		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPEB

Sample Date: 4/13/21 11:30

Customer ID:

Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BB06999

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB06999	Manganese, Total	mg/L	0.0000099	0.000147	0.10	0.0999	0.102	0.101	0.0850 to 0.115	99.8	70.0 to 130	2.09	20.0
BB06999	Barium, Total	mg/L	0.0000008	0.000200	0.10	0.0940	0.0982	0.0948	0.0850 to 0.115	94.0	70.0 to 130	4.32	20.0
BB06999	Boron, Total	mg/L	0.000919	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.0874	20.0
BB06999	Calcium, Total	mg/L	-0.00194	0.152	5.00	4.97	4.92	5.10	4.25 to 5.75	99.5	70.0 to 130	1.10	20.0
BB06999	Iron, Total	mg/L	0.000123	0.0176	0.2	0.199	0.197	0.200	0.170 to 0.230	99.7	70.0 to 130	1.01	20.0
BB06999	Potassium, Total	mg/L	-0.00872	0.367	10.0	10.1	10.1	9.85	8.50 to 11.5	101	70.0 to 130	0.441	20.0
BB06999	Magnesium, Total	mg/L	-0.00208	0.0462	5.00	5.03	4.97	5.09	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BB06999	Arsenic, Total	mg/L	0.0000206	0.000147	0.10	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	2.51	20.0
BB06999	Chromium, Total	mg/L	0.0000242	0.000440	0.10	0.0966	0.0984	0.0984	0.0850 to 0.115	96.4	70.0 to 130	1.76	20.0
BB06999	Lithium, Total	mg/L	0.0000640	0.0154	0.20	0.196	0.196	0.191	0.170 to 0.230	98.1	70.0 to 130	0.190	20.0
BB06999	Molybdenum, Total	mg/L	0.0000042	0.000147	0.10	0.0968	0.0974	0.0976	0.0850 to 0.115	96.8	70.0 to 130	0.634	20.0
BB06999	Cobalt, Total	mg/L	-0.0000052	0.000147	0.10	0.0973	0.0992	0.100	0.0850 to 0.115	97.3	70.0 to 130	1.91	20.0
BB06999	Antimony, Total	mg/L	0.0000574	0.00100	0.10	0.0948	0.0934	0.0938	0.0850 to 0.115	94.8	70.0 to 130	1.40	20.0
BB06999	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.0977	0.0970	0.0996	0.0850 to 0.115	97.7	70.0 to 130	0.663	20.0
BB06999	Mercury, Total by CVAA	mg/L	-0.0000283	0.000500	0.004	0.00366	0.00371	0.00379	0.00340 to 0.00460	91.6	70.0 to 130	1.21	20.0
BB06999	Beryllium, Total	mg/L	0.0000281	0.000880	0.10	0.0872	0.0875	0.0893	0.0850 to 0.115	87.2	70.0 to 130	0.304	20.0
BB06999	Sodium, Total	mg/L	0.000392	0.0660	5.00	4.88	4.86	4.84	4.25 to 5.75	97.5	70.0 to 130	0.326	20.0
BB06999	Lead, Total	mg/L	0.0000008	0.000147	0.10	0.0998	0.0991	0.0991	0.0850 to 0.115	99.8	70.0 to 130	0.710	20.0
BB06999	Selenium, Total	mg/L	-0.0000207	0.00100	0.10	0.0976	0.0977	0.101	0.0850 to 0.115	97.6	70.0 to 130	0.0959	20.0
BB06999	Thallium, Total	mg/L	-0.000008	0.000147	0.10	0.0956	0.0954	0.0960	0.0850 to 0.115	95.6	70.0 to 130	0.236	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPEB

Sample Date: 4/13/21 11:30

Customer ID:

Delivery Date: 4/14/21 10:25

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BB06999

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB06999	Chloride	mg/L	-0.0442	1.00	10.0	9.98	0.0615	9.95	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BB06998	Solids, Dissolved	mg/L	1.00	25.0			78.7	52.0	40.0 to 60.0			0.855	5.00
BB06999	Fluoride	mg/L	0.0171	0.100	2.50	2.58	0.0162	2.53	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB06999	Sulfate	mg/L	-0.594	1.00	20.0	18.9	-0.636	19.0	18.0 to 22.0	94.5	80.0 to 120	0.00	20.0

Comments:

Definitions

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer
Site Representative	Jodi Webb		Requested By	Greg Dyer
Collector	Dallas Gentry		Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-32V	03/30/2021	07:47	6	Groundwater		BB06216
MW-37V	03/30/2021	09:25	6	Groundwater		BB06217
MW-36V	03/30/2021	11:00	6	Groundwater		BB06218
MW-33V	03/30/2021	12:27	6	Groundwater		BB06219
MW-34V	03/30/2021	14:02	6	Groundwater		BB06220
MW-35V	03/30/2021	15:52	6	Groundwater		BB06221
FB-1	03/30/2021	16:35	4	Field Blank		BB06222

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Jodi Webb</i>	03/31/2021 08:19

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp <input type="text" value="0.3 degrees C"/> Thermometer ID <input type="text" value="5408-27568-2-2"/> pH Strip ID <input type="text" value="8206-45803-10-7"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1317	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jodi Webb		Greg Dyer
	Anthony Goggins		Gaston Ash Pond

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-16V	04/05/2021	12:03	6	Groundwater		BB06515
MW-16	04/05/2021	13:30	6	Groundwater		BB06516
MW-16DUP	04/05/2021	13:30	6	Sample Duplicate		BB06517
MW-28H	04/05/2021	15:10	6	Groundwater		BB06518
MW-29H	04/05/2021	16:56	6	Groundwater		BB06519
FB-4	04/06/2021	11:30	4	Field Blank		BB06520
MW-17V	04/06/2021	11:46	6	Groundwater		BB06521
MW-17SV	04/06/2021	13:05	6	Groundwater		BB06522
MW-17	04/06/2021	14:45	6	Groundwater		BB06523
MW-18	04/06/2021	15:50	6	Groundwater		BB06524

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Dyer</i>	04/07/2021 08:36

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1317	
Cooler Temp	0.2 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8206-45803-10-7	



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer	
	Site Representative			Requested By	
	Jodi Webb			Greg Dyer	
Collector		Dallas Gentry	Location		Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Correcting bottle count and description for FB-2 and MW-30H. LBM 5/11/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-4	04/05/2021	09:43	6	Groundwater		BB06622
MW-3	04/05/2021	11:22	6	Groundwater		BB06623
MW-19	04/05/2021	13:25	6	Groundwater		BB06624
MW-31VR	04/05/2021	15:29	6	Groundwater		BB06625
FB-2	04/05/2021	16:25	4	Field Blank		BB06626
MW-30H	04/06/2021	08:43	6	Groundwater		BB06627
MW-15R	04/06/2021	10:10	6	Groundwater		BB06628
MW-23S	04/06/2021	11:43	6	Groundwater		BB06629
MW-23D	04/06/2021	13:06	6	Groundwater		BB06630
MW-27	04/06/2021	15:06	6	Groundwater		BB06631
MW-26	04/07/2021	08:43	6	Groundwater		BB06632
MW-5	04/07/2021	10:58	6	Groundwater		BB06633

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura Wiley</i>	04/08/2021 08:13

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1317	
Cooler Temp	0.1 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8206-45803-10-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA **04/08/2021 10:00**

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer	
Site Representative	Jodi Webb	Requested By	Greg Dyer	
Collector	TJ Daugherty	Location	Gaston Ash Pond	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	04/05/2021	10:40	6	Groundwater		BB06634
MW-10	04/05/2021	12:15	6	Groundwater		BB06635
MW-11	04/05/2021	14:15	6	Groundwater		BB06636
MW-12	04/05/2021	15:45	6	Groundwater		BB06637
MW-13	04/06/2021	10:37	6	Groundwater		BB06638
MW-14	04/06/2021	12:05	6	Groundwater		BB06639
MW-8	04/06/2021	14:00	6	Groundwater		BB06640
MW-7	04/07/2021	11:07	6	Groundwater		BB06641
MW-6	04/07/2021	12:10	6	Groundwater		BB06642
MW-21	04/07/2021	13:10	6	Groundwater		BB06643
MW-21 Dup	04/07/2021	13:10	6	Sample Duplicate		BB06644
MW-22	04/07/2021	14:10	6	Groundwater		BB06645
FB-3	04/07/2021	14:45	4	Field Blank		BB06646

Relinquished By	Received By	Date/Time
		04/08/2021 09:06

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-2009-2-1	
Sample Event	1317	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8206-45803-10-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer	
Site Representative	Jodi Webb	Requested By	Greg Dyer	
Collector	Dallas Gentry	Location	Gaston Ash Pond	

Bottles	1 Metals	500 mL	3 Hg	250 mL	5 Anions	250 mL	7 N/A	N/A
	2 Dissolved Meta	500 mL	4 TDS	500 mL	6 Alkalinity	250 mL	8 N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-39	04/12/2021	10:08	6	Groundwater		BB06911
MW-39 dup	04/12/2021	10:08	6	Sample Duplicate		BB06912
FB-5	04/12/2021	10:35	4	Field Blank		BB06913
MW-20	04/12/2021	15:54	6	Groundwater		BB06914
MW-20SV	04/12/2021	17:33	6	Groundwater		BB06915
MW-20V	04/12/2021	19:01	6	Groundwater		BB06916

Relinquished By	Received By	Date/Time
		04/13/2021 08:48

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	Cooler Temp	0.3 degrees C
Sample Event	1317	Thermometer ID	5408-27568-2-2
		pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody
Groundwater
 APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jodi Webb		Greg Dyer
	TJ Daugherty		Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Correcting MW-42 DUP time to 10:37 per bottles. LBM 4/14/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-40	04/12/2021	11:20	6	Groundwater		BB06993
MW-40 Dup	04/12/2021	11:20	6	Sample Duplicate		BB06994
MW-41	04/12/2021	13:27	6	Groundwater		BB06995
MW-38	04/12/2021	17:25	6	Groundwater		BB06996
MW-42	04/13/2021	10:37	6	Groundwater		BB06997
MW-42 Dup	04/13/2021	10:37	6	Sample Duplicate		BB06998
EB-1	04/13/2021	11:30	4	Equipment Blank		BB06999

Relinquished By	Received By	Date/Time
<i>JAD</i>	<i>Jodi Webb</i>	04/14/2021 09:14

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-2009-2-1	
Sample Event	1317	
	Cooler Temp	0.5 degrees C
	Thermometer ID	5408-27568-2-2
	pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To	Dustin Brooks, Greg Dyer
	Jodi Webb	Requested By	Greg Dyer
	Dallas Gentry	Location	Gaston Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-32V	03/30/2021	07:47	1	Groundwater		BB06223
MW-37V	03/30/2021	09:25	1	Groundwater		BB06224
MW-36V	03/30/2021	11:00	1	Groundwater		BB06225
MW-33V	03/30/2021	12:27	1	Groundwater		BB06226
MW-34V	03/30/2021	14:02	1	Groundwater		BB06227
MW-35V	03/30/2021	15:52	1	Groundwater		BB06228
FB-1	03/30/2021	16:35	1	Field Blank		BB06229

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura M. Gentry</i>	03/31/2021 08:20

SmarTroll ID	7586-41442-5-1
Turbidity ID	3901-20010-2-2
Sample Event	1317

All metals and radiological bottles have pH < 2

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jodi Webb		Greg Dyer
	Anthony Goggins		Gaston Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: MS/MSD collected at MW-28H

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-16V	04/05/2021	12:03	1	Groundwater		BB06525
MW-16	04/05/2021	13:30	1	Groundwater		BB06526
MW-16DUP	04/05/2021	13:30	1	Sample Duplicate		BB06527
MW-28H	04/05/2021	15:10	3	Groundwater		BB06528
MW-29H	04/05/2021	16:56	1	Groundwater		BB06529
FB-4	04/06/2021	11:30	1	Field Blank		BB06530
MW-17V	04/06/2021	11:46	1	Groundwater		BB06531
MW-17SV	04/06/2021	13:05	1	Groundwater		BB06532
MW-17	04/06/2021	14:45	1	Groundwater		BB06533
MW-18	04/06/2021	15:50	1	Groundwater		BB06534

Relinquished By <i>Anthony Goggins</i>	Received By <i>Karen H. [Signature]</i>	Date/Time 04/07/2021 08:35

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1317		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jodi Webb	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Gaston Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium MS/MSD collected at MW-4.
Correcting description for FB-2 and MW-30H. LBM 5/11/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-4	04/05/2021	09:43	3	Groundwater		BB06647
MW-3	04/05/2021	11:22	1	Groundwater		BB06648
MW-19	04/05/2021	13:25	1	Groundwater		BB06649
MW-31VR	04/05/2021	15:29	1	Groundwater		BB06650
FB-2	04/05/2021	16:25	1	Field Blank		BB06651
MW-30H	04/06/2021	08:43	1	Groundwater		BB06652
MW-15R	04/06/2021	10:10	1	Groundwater		BB06653
MW-23S	04/06/2021	11:43	1	Groundwater		BB06654
MW-23D	04/06/2021	13:06	1	Groundwater		BB06655
MW-27	04/06/2021	15:06	1	Groundwater		BB06656
MW-26	04/07/2021	08:43	1	Groundwater		BB06657
MW-5	04/07/2021	10:58	1	Groundwater		BB06658

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Raven Wiley</i>	04/08/2021 08:13

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1317	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	8206-45803-10-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **04/08/2021 10:00**

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jodi Webb		Greg Dyer
	TJ Daugherty		Gaston Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments Rad MS/MSD @ MW-6

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	04/05/2021	10:40	1	Groundwater		BB06659
MW-10	04/05/2021	12:15	1	Groundwater		BB06660
MW-11	04/05/2021	14:15	1	Groundwater		BB06661
MW-12	04/05/2021	15:45	1	Groundwater		BB06662
MW-13	04/06/2021	10:37	1	Groundwater		BB06663
MW-14	04/06/2021	12:05	1	Groundwater		BB06664
MW-8	04/06/2021	14:00	1	Groundwater		BB06665
MW-7	04/07/2021	11:07	1	Groundwater		BB06666
MW-6	04/07/2021	12:10	3	Groundwater		BB06667
MW-21	04/07/2021	13:10	1	Groundwater		BB06668
MW-21 Dup	04/07/2021	13:10	1	Sample Duplicate		BB06669
MW-22	04/07/2021	14:10	1	Groundwater		BB06670
FB-3	04/07/2021	14:45	1	Field Blank		BB06671

Relinquished By	Received By	Date/Time
<i>JAD</i>	<i>Karen Maly</i>	04/08/2021 09:06

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-2009-2-1		
Sample Event	1317		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jodi Webb		Greg Dyer
	Dallas Gentry		Gaston Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-39	04/12/2021	10:08	1	Groundwater		BB06917
MW-39 dup	04/12/2021	10:08	1	Sample Duplicate		BB06918
FB-5	04/12/2021	10:35	1	Field Blank		BB06919
MW-20	04/12/2021	15:54	1	Groundwater		BB06920
MW-20SV	04/12/2021	17:33	1	Groundwater		BB06921
MW-20V	04/12/2021	19:01	1	Groundwater		BB06922

Relinquished By	Received By	Date/Time
<i>M. Gentry</i>	<i>Greg Dyer</i>	04/13/2021 08:47

SmarTroll ID	7586-41442-5-1
Turbidity ID	3901-20010-2-2
Sample Event	1317

All metals and radiological bottles have pH < 2

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jodi Webb	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Gaston Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments Correcting MW-42 DUP time to 10:37 per bottles. LBM 4/14/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-40	04/12/2021	11:20	1	Groundwater		BB07000
MW-40 Dup	04/12/2021	11:20	1	Sample Duplicate		BB07001
MW-41	04/12/2021	13:27	1	Groundwater		BB07002
MW-38	04/12/2021	17:25	1	Groundwater		BB07003
MW-42	04/13/2021	10:37	1	Groundwater		BB07004
MW-42 Dup	04/13/2021	10:37	1	Sample Duplicate		BB07005
EB-1	04/13/2021	11:30	1	Equipment Blank		BB07006

Relinquished By	Received By	Date/Time
		04/14/2021 09:14

SmarTroll ID	7586-41443-5-2
Turbidity ID	3901-2009-2-1
Sample Event	1317

All metals and radiological bottles have pH < 2

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL

June 03, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92534960001	BB06223 MW-32V	Water	03/30/21 07:47	04/20/21 10:20
92534960002	BB06224 MW-37V	Water	03/30/21 09:25	04/20/21 10:20
92534960003	BB06225 MW-36V	Water	03/30/21 11:00	04/20/21 10:20
92534960004	BB06226 MW-33V	Water	03/30/21 12:27	04/20/21 10:20
92534960005	BB06227 MW-34V	Water	03/30/21 14:02	04/20/21 10:20
92534960006	BB06228 MW-35V	Water	03/30/21 15:52	04/20/21 10:20
92534960007	BB06229 FB-1	Water	03/30/21 16:35	04/20/21 10:20
92534960008	BB06525 MW-16V	Water	04/05/21 12:03	04/20/21 10:20
92534960009	BB06526 MW-16	Water	04/05/21 13:30	04/20/21 10:20
92534960010	BB06527 MW-16 DUP	Water	04/05/21 13:30	04/20/21 10:20
92534960011	BB06528 MW-28H	Water	04/05/21 15:10	04/20/21 10:20
92534960012	BB06528 MW-28H MS	Water	04/05/21 15:10	04/20/21 10:20
92534960013	BB06528 MW-28H MSD	Water	04/05/21 15:10	04/20/21 10:20
92534960014	BB06529 MW-29H	Water	04/05/21 16:56	04/20/21 10:20
92534960015	BB06530 FB-4	Water	04/06/21 11:30	04/20/21 10:20
92534960016	BB06531 MW-17V	Water	04/06/21 11:46	04/20/21 10:20
92534960017	BB06532 MW-17SV	Water	04/06/21 13:05	04/20/21 10:20
92534960018	BB06533 MW-17	Water	04/06/21 14:45	04/20/21 10:20
92534960019	BB06534 MW-18	Water	04/06/21 15:50	04/20/21 10:20
92534960020	BB06647 MW-4	Water	04/05/21 09:43	04/20/21 10:20
92534960021	BB06647 MW-4 MS	Water	04/05/21 09:43	04/20/21 10:20
92534960022	BB06647 MW-4 MSD	Water	04/05/21 09:43	04/20/21 10:20
92534960023	BB06648 MW-3	Water	04/05/21 11:22	04/20/21 10:20
92534960024	BB06649 MW-19	Water	04/05/21 13:25	04/20/21 10:20
92534960025	BB06650 MW-31VR	Water	04/05/21 15:29	04/20/21 10:20
92534960026	BB06651 FB-2	Water	04/05/21 16:25	04/20/21 10:20
92534960027	BB06652 MW-30H	Water	04/06/21 08:43	04/20/21 10:20
92534960028	BB06653 MW-15R	Water	04/06/21 10:10	04/20/21 10:20
92534960029	BB06654 MW-23S	Water	04/06/21 11:43	04/20/21 10:20
92534960030	BB06655 MW-23D	Water	04/06/21 13:06	04/20/21 10:20
92534960031	BB06656 MW-27	Water	04/06/21 15:06	04/20/21 10:20
92534960032	BB06657 MW-26	Water	04/07/21 08:43	04/20/21 10:20
92534960033	BB06658 MW-5	Water	04/07/21 10:58	04/20/21 10:20
92534960034	BB06659 MW-9	Water	04/05/21 10:40	04/20/21 10:20
92534960035	BB06660 MW-10	Water	04/05/21 12:15	04/20/21 10:20
92534960036	BB06661 MW-11	Water	04/05/21 14:15	04/20/21 10:20
92534960037	BB06662 MW-12	Water	04/05/21 15:45	04/20/21 10:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92534960038	BB06663 MW-13	Water	04/06/21 10:37	04/20/21 10:20
92534960039	BB06664 MW-14	Water	04/06/21 12:05	04/20/21 10:20
92534960040	BB06665 MW-8	Water	04/06/21 14:00	04/20/21 10:20
92534960041	BB06666 MW-7	Water	04/07/21 11:07	04/20/21 10:20
92534960042	BB06667 MW-6	Water	04/07/21 12:10	04/20/21 10:20
92534960043	BB06667 MW-6 MS	Water	04/07/21 12:10	04/20/21 10:20
92534960044	BB06667 MW-6 MSD	Water	04/07/21 12:10	04/20/21 10:20
92534960045	BB06668 MW-21	Water	04/07/21 13:10	04/20/21 10:20
92534960046	BB06669 MW-21 DUP	Water	04/07/21 13:10	04/20/21 10:20
92534960047	BB06670 MW-22	Water	04/07/21 14:10	04/20/21 10:20
92534960048	BB06671 FB-3	Water	04/07/21 14:45	04/20/21 10:20
92534960049	BB06917 MW-39	Water	04/12/21 10:08	04/20/21 10:20
92534960050	BB06918 MW-39 DUP	Water	04/12/21 10:08	04/20/21 10:20
92534960051	BB06919 FB-5	Water	04/12/21 10:35	04/20/21 10:20
92534960052	BB06920 MW-20	Water	04/12/21 15:54	04/20/21 10:20
92534960053	BB06921 MW-20SV	Water	04/12/21 17:33	04/20/21 10:20
92534960054	BB06922 MW-20V	Water	04/12/21 19:01	04/20/21 10:20
92534960055	BB07000 MW-40	Water	04/12/21 11:20	04/20/21 10:20
92534960056	BB07001 MW-40 DUP	Water	04/12/21 11:20	04/20/21 10:20
92534960057	BB07002 MW-41	Water	04/12/21 13:27	04/20/21 10:20
92534960058	BB07003 MW-38	Water	04/12/21 17:25	04/20/21 10:20
92534960059	BB07004 MW-42	Water	04/13/21 10:37	04/20/21 10:20
92534960060	BB07005 MW-42 DUP	Water	04/13/21 10:37	04/20/21 10:20
92534960061	BB07006 EB-1	Water	04/13/21 11:30	04/20/21 10:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92534960001	BB06223 MW-32V	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960002	BB06224 MW-37V	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960003	BB06225 MW-36V	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960004	BB06226 MW-33V	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960005	BB06227 MW-34V	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960006	BB06228 MW-35V	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960007	BB06229 FB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960008	BB06525 MW-16V	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960009	BB06526 MW-16	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960010	BB06527 MW-16 DUP	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960011	BB06528 MW-28H	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960012	BB06528 MW-28H MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92534960013	BB06528 MW-28H MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92534960014	BB06529 MW-29H	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960015	BB06530 FB-4	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960016	BB06531 MW-17V	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960017	BB06532 MW-17SV	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960018	BB06533 MW-17	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960019	BB06534 MW-18	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960020	BB06647 MW-4	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960021	BB06647 MW-4 MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92534960022	BB06647 MW-4 MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92534960023	BB06648 MW-3	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960024	BB06649 MW-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960025	BB06650 MW-31VR	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960026	BB06651 FB-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92534960027	BB06652 MW-30H	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960028	BB06653 MW-15R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960029	BB06654 MW-23S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960030	BB06655 MW-23D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534960031	BB06656 MW-27	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960032	BB06657 MW-26	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960033	BB06658 MW-5	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960034	BB06659 MW-9	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960035	BB06660 MW-10	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960036	BB06661 MW-11	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960037	BB06662 MW-12	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960038	BB06663 MW-13	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960039	BB06664 MW-14	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92534960040	BB06665 MW-8	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92534960041	BB06666 MW-7	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960042	BB06667 MW-6	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92534960043	BB06667 MW-6 MS	EPA 9320	VAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960044	BB06667 MW-6 MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92534960045	BB06668 MW-21	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92534960046	BB06669 MW-21 DUP	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92534960047	BB06670 MW-22	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960048	BB06671 FB-3	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92534960049	BB06917 MW-39	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92534960050	BB06918 MW-39 DUP	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960051	BB06919 FB-5	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92534960052	BB06920 MW-20	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92534960053	BB06921 MW-20SV	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92534960054	BB06922 MW-20V	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960055	BB07000 MW-40	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92534960056	BB07001 MW-40 DUP	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92534960057	BB07002 MW-41	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960058	BB07003 MW-38	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92534960059	BB07004 MW-42	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92534960060	BB07005 MW-42 DUP	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92534960061	BB07006 EB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: June 03, 2021

General Information:

61 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: June 03, 2021

General Information:

61 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: June 03, 2021

General Information:

55 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06223 MW-32V **Lab ID: 92534960001** Collected: 03/30/21 07:47 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.807 ± 0.346 (0.376) C:88% T:NA	pCi/L	05/21/21 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.666U ± 0.407 (0.744) C:66% T:89%	pCi/L	05/27/21 12:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.47 ± 0.753 (1.12)	pCi/L	05/28/21 17:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06224 MW-37V **Lab ID: 92534960002** Collected: 03/30/21 09:25 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	4.62 ± 0.974 (0.377) C:87% T:NA	pCi/L	05/21/21 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.163U ± 0.354 (0.785) C:68% T:89%	pCi/L	05/27/21 12:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.78 ± 1.33 (1.16)	pCi/L	05/28/21 17:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06225 MW-36V **Lab ID: 92534960003** Collected: 03/30/21 11:00 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.962 ± 0.379 (0.335) C:82% T:NA	pCi/L	05/21/21 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.864 ± 0.439 (0.772) C:70% T:89%	pCi/L	05/27/21 12:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.83 ± 0.818 (1.11)	pCi/L	05/28/21 17:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06226 MW-33V **Lab ID: 92534960004** Collected: 03/30/21 12:27 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.608 ± 0.315 (0.405) C:87% T:NA	pCi/L	05/21/21 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.798 ± 0.438 (0.789) C:70% T:89%	pCi/L	05/27/21 12:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.41 ± 0.753 (1.19)	pCi/L	05/28/21 17:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06227 MW-34V **Lab ID: 92534960005** Collected: 03/30/21 14:02 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.304U ± 0.287 (0.567) C:84% T:NA	pCi/L	05/21/21 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0669U ± 0.313 (0.713) C:70% T:90%	pCi/L	05/27/21 12:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.371U ± 0.600 (1.28)	pCi/L	05/28/21 17:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06228 MW-35V **Lab ID: 92534960006** Collected: 03/30/21 15:52 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.223U ± 0.200 (0.362) C:88% T:NA	pCi/L	05/21/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.545U ± 0.370 (0.709) C:72% T:93%	pCi/L	05/27/21 12:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.768U ± 0.570 (1.07)	pCi/L	05/28/21 17:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06229 FB-1 **Lab ID: 92534960007** Collected: 03/30/21 16:35 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0393U ± 0.123 (0.386) C:90% T:NA	pCi/L	05/21/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.00498U ± 0.324 (0.754) C:68% T:90%	pCi/L	05/27/21 12:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.00498U ± 0.447 (1.14)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06525 MW-16V **Lab ID: 92534960008** Collected: 04/05/21 12:03 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.48 ± 0.495 (0.396) C:84% T:NA	pCi/L	05/21/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.915 ± 0.432 (0.718) C:66% T:86%	pCi/L	05/27/21 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.40 ± 0.927 (1.11)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06526 MW-16 **Lab ID: 92534960009** Collected: 04/05/21 13:30 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	3.02 ± 0.742 (0.380) C:82% T:NA	pCi/L	05/21/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.26 ± 0.496 (0.749) C:70% T:82%	pCi/L	05/27/21 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.28 ± 1.24 (1.13)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06527 MW-16 DUP **Lab ID: 92534960010** Collected: 04/05/21 13:30 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	3.96 ± 0.890 (0.486) C:84% T:NA	pCi/L	05/21/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.891 ± 0.436 (0.750) C:68% T:88%	pCi/L	05/27/21 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.85 ± 1.33 (1.24)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06528 MW-28H **Lab ID: 92534960011** Collected: 04/05/21 15:10 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	5.61 ± 1.14 (0.394) C:84% T:NA	pCi/L	05/21/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.492 (0.851) C:67% T:88%	pCi/L	05/27/21 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	6.64 ± 1.63 (1.25)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06528 MW-28H MS **Lab ID: 92534960012** Collected: 04/05/21 15:10 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	108.75 %REC ± NA (NA) C:NA T:NA	pCi/L	05/21/21 08:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	125.32 %REC ± NA (NA) C:NA T:NA	pCi/L	05/27/21 12:04	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06528 MW-28H MSD **Lab ID: 92534960013** Collected: 04/05/21 15:10 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	103.06 %REC 5.37RPD ± NA (NA) C:NA T:NA	pCi/L	05/21/21 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	93.72 %REC 28.86 RPD ± NA (NA) C:NA T:NA	pCi/L	05/27/21 12:04	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06529 MW-29H **Lab ID: 92534960014** Collected: 04/05/21 16:56 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	16.2 ± 2.73 (0.373) C:84% T:NA	pCi/L	05/21/21 08:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.49 ± 0.673 (0.700) C:75% T:85%	pCi/L	05/27/21 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	18.7 ± 3.40 (1.07)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06530 FB-4 **Lab ID: 92534960015** Collected: 04/06/21 11:30 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.379 ± 0.247 (0.369) C:83% T:NA	pCi/L	05/21/21 08:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.00921U ± 0.275 (0.652) C:68% T:86%	pCi/L	05/27/21 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.379U ± 0.522 (1.02)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06531 MW-17V **Lab ID: 92534960016** Collected: 04/06/21 11:46 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	8.00 ± 1.50 (0.364) C:83% T:NA	pCi/L	05/21/21 08:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.94 ± 0.770 (0.747) C:68% T:83%	pCi/L	05/27/21 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	10.9 ± 2.27 (1.11)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06532 MW-17SV **Lab ID: 92534960017** Collected: 04/06/21 13:05 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.711 ± 0.316 (0.331) C:90% T:NA	pCi/L	05/21/21 08:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.418U ± 0.392 (0.797) C:64% T:86%	pCi/L	05/27/21 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.13 ± 0.708 (1.13)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06533 MW-17 **Lab ID: 92534960018** Collected: 04/06/21 14:45 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.463 ± 0.267 (0.367) C:87% T:NA	pCi/L	05/21/21 08:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.226U ± 0.392 (0.856) C:62% T:86%	pCi/L	05/27/21 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.689U ± 0.659 (1.22)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06534 MW-18 **Lab ID: 92534960019** Collected: 04/06/21 15:50 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.06 ± 0.397 (0.402) C:87% T:NA	pCi/L	05/21/21 08:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.623U ± 0.423 (0.805) C:62% T:86%	pCi/L	05/27/21 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.68 ± 0.820 (1.21)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06647 MW-4 **Lab ID: 92534960020** Collected: 04/05/21 09:43 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.207U ± 0.198 (0.368) C:94% T:NA	pCi/L	05/21/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.267U ± 0.284 (0.589) C:83% T:85%	pCi/L	05/27/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.474U ± 0.482 (0.957)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06647 MW-4 MS **Lab ID: 92534960021** Collected: 04/05/21 09:43 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	118.18 %REC ± NA (NA) C:NA T:NA	pCi/L	05/21/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	94.19 %REC ± NA (NA) C:NA T:NA	pCi/L	05/27/21 15:28	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06647 MW-4 MSD **Lab ID: 92534960022** Collected: 04/05/21 09:43 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	110.37 %REC 6.83RPD ± NA (NA) C:NA T:NA	pCi/L	05/21/21 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	107.17 %REC 12.90 RPD ± NA (NA) C:NA T:NA	pCi/L	05/27/21 15:28	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06648 MW-3 **Lab ID: 92534960023** Collected: 04/05/21 11:22 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.110U ± 0.164 (0.355) C:91% T:NA	pCi/L	05/21/21 09:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0331U ± 0.263 (0.610) C:76% T:91%	pCi/L	05/27/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.143U ± 0.427 (0.965)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06649 MW-19 **Lab ID: 92534960024** Collected: 04/05/21 13:25 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.442 ± 0.256 (0.344) C:92% T:NA	pCi/L	05/21/21 09:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.517U ± 0.356 (0.687) C:78% T:90%	pCi/L	05/27/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.959U ± 0.612 (1.03)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06650 MW-31VR **Lab ID: 92534960025** Collected: 04/05/21 15:29 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.145U ± 0.187 (0.384) C:88% T:NA	pCi/L	05/21/21 09:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.571U ± 0.388 (0.745) C:68% T:91%	pCi/L	05/27/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.716U ± 0.575 (1.13)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06651 FB-2 **Lab ID: 92534960026** Collected: 04/05/21 16:25 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0879U ± 0.169 (0.390) C:82% T:NA	pCi/L	05/21/21 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.152U ± 0.317 (0.777) C:66% T:87%	pCi/L	05/27/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0879U ± 0.486 (1.17)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06652 MW-30H **Lab ID: 92534960027** Collected: 04/06/21 08:43 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.729 ± 0.320 (0.322) C:86% T:NA	pCi/L	05/21/21 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.07 ± 0.438 (0.673) C:70% T:87%	pCi/L	05/27/21 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.80 ± 0.758 (0.995)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06653 MW-15R **Lab ID: 92534960028** Collected: 04/06/21 10:10 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0475U ± 0.157 (0.398) C:81% T:NA	pCi/L	05/21/21 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.15 ± 0.480 (0.770) C:74% T:82%	pCi/L	05/27/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20 ± 0.637 (1.17)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06654 MW-23S **Lab ID: 92534960029** Collected: 04/06/21 11:43 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.482 ± 0.289 (0.417) C:87% T:NA	pCi/L	05/21/21 09:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.521U ± 0.356 (0.684) C:70% T:94%	pCi/L	05/27/21 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.00U ± 0.645 (1.10)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06655 MW-23D **Lab ID: 92534960030** Collected: 04/06/21 13:06 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.173U ± 0.184 (0.341) C:86% T:NA	pCi/L	05/21/21 09:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.139U ± 0.347 (0.775) C:73% T:86%	pCi/L	05/27/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.312U ± 0.531 (1.12)	pCi/L	05/28/21 17:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06656 MW-27 **Lab ID: 92534960031** Collected: 04/06/21 15:06 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0861U ± 0.161 (0.367) C:91% T:NA	pCi/L	05/21/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.124U ± 0.275 (0.612) C:74% T:90%	pCi/L	05/27/21 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.210U ± 0.436 (0.979)	pCi/L	06/01/21 15:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06657 MW-26 **Lab ID: 92534960032** Collected: 04/07/21 08:43 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.209U ± 0.193 (0.343) C:85% T:NA	pCi/L	05/21/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.263U ± 0.320 (0.676) C:75% T:88%	pCi/L	05/27/21 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.472U ± 0.513 (1.02)	pCi/L	06/01/21 15:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06658 MW-5 **Lab ID: 92534960033** Collected: 04/07/21 10:58 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.511 ± 0.294 (0.435) C:90% T:NA	pCi/L	05/21/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.886 ± 0.428 (0.746) C:74% T:88%	pCi/L	05/27/21 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.40 ± 0.722 (1.18)	pCi/L	06/01/21 15:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06659 MW-9 **Lab ID: 92534960034** Collected: 04/05/21 10:40 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.231U ± 0.228 (0.440) C:89% T:NA	pCi/L	05/21/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.612U ± 0.368 (0.680) C:68% T:90%	pCi/L	05/27/21 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.843U ± 0.596 (1.12)	pCi/L	06/01/21 15:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06660 MW-10 **Lab ID: 92534960035** Collected: 04/05/21 12:15 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.153U ± 0.174 (0.340) C:90% T:NA	pCi/L	05/21/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.426U ± 0.292 (0.549) C:75% T:93%	pCi/L	05/27/21 15:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.579U ± 0.466 (0.889)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06661 MW-11 **Lab ID: 92534960036** Collected: 04/05/21 14:15 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.115U ± 0.146 (0.296) C:91% T:NA	pCi/L	05/21/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0149U ± 0.312 (0.728) C:72% T:82%	pCi/L	05/27/21 15:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.130U ± 0.458 (1.02)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06662 MW-12 **Lab ID: 92534960037** Collected: 04/05/21 15:45 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.555 ± 0.315 (0.493) C:90% T:NA	pCi/L	05/21/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.647U ± 0.367 (0.662) C:73% T:88%	pCi/L	05/27/21 15:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20 ± 0.682 (1.16)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06663 MW-13 **Lab ID: 92534960038** Collected: 04/06/21 10:37 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.413 ± 0.255 (0.373) C:87% T:NA	pCi/L	05/21/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.247U ± 0.342 (0.733) C:70% T:86%	pCi/L	05/27/21 15:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.660U ± 0.597 (1.11)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06664 MW-14 **Lab ID: 92534960039** Collected: 04/06/21 12:05 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.417 ± 0.261 (0.387) C:86% T:NA	pCi/L	05/21/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.458U ± 0.345 (0.674) C:70% T:88%	pCi/L	05/27/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.875U ± 0.606 (1.06)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06665 MW-8 **Lab ID: 92534960040** Collected: 04/06/21 14:00 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0930U ± 0.105 (0.405) C:92% T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.530U ± 0.333 (0.620) C:75% T:90%	pCi/L	05/28/21 16:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.530U ± 0.438 (1.03)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06666 MW-7 **Lab ID: 92534960041** Collected: 04/07/21 11:07 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.000582U ± 0.158 (0.438) C:91% T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.743 ± 0.387 (0.668) C:72% T:87%	pCi/L	05/28/21 16:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.743U ± 0.545 (1.11)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06667 MW-6 **Lab ID: 92534960042** Collected: 04/07/21 12:10 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.141U ± 0.182 (0.372) C:88% T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.246U ± 0.352 (0.757) C:69% T:86%	pCi/L	05/28/21 16:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.387U ± 0.534 (1.13)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06667 MW-6 MS **Lab ID: 92534960043** Collected: 04/07/21 12:10 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	111.67 %REC ± NA (NA) C:NA T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	87.55 %REC ± NA (NA) C:NA T:NA	pCi/L	05/28/21 19:26	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06667 MW-6 MSD **Lab ID: 92534960044** Collected: 04/07/21 12:10 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	110.20 %REC 1.32RPD ± NA (NA) C:NA T:NA	pCi/L	05/23/21 11:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	83.65 %REC 4.55 RPD ± NA (NA) C:NA T:NA	pCi/L	05/28/21 19:26	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06668 MW-21 **Lab ID: 92534960045** Collected: 04/07/21 13:10 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.283U ± 0.217 (0.350) C:91% T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.837 ± 0.445 (0.796) C:71% T:85%	pCi/L	05/28/21 16:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.12U ± 0.662 (1.15)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06669 MW-21 DUP **Lab ID: 92534960046** Collected: 04/07/21 13:10 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.181U ± 0.209 (0.420) C:90% T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.280U ± 0.378 (0.808) C:72% T:84%	pCi/L	05/28/21 16:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.461U ± 0.587 (1.23)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06670 MW-22 **Lab ID: 92534960047** Collected: 04/07/21 14:10 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.124U ± 0.165 (0.345) C:92% T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.241U ± 0.336 (0.719) C:70% T:85%	pCi/L	05/28/21 16:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.365U ± 0.501 (1.06)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06671 FB-3 **Lab ID: 92534960048** Collected: 04/07/21 14:45 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0129U ± 0.127 (0.345) C:96% T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0851U ± 0.294 (0.705) C:74% T:89%	pCi/L	05/28/21 16:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0129U ± 0.421 (1.05)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Sample: BB06917 MW-39 **Lab ID: 92534960049** Collected: 04/12/21 10:08 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0164U ± 0.145 (0.390) C:94% T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.160U ± 0.300 (0.658) C:76% T:90%	pCi/L	05/28/21 16:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.176U ± 0.445 (1.05)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06918 MW-39 DUP **Lab ID: 92534960050** Collected: 04/12/21 10:08 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.240U ± 0.201 (0.347) C:96% T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.371U ± 0.330 (0.664) C:71% T:85%	pCi/L	05/28/21 16:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.611U ± 0.531 (1.01)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06919 FB-5 **Lab ID: 92534960051** Collected: 04/12/21 10:35 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.133U ± 0.183 (0.383) C:90% T:NA	pCi/L	05/23/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.496U ± 0.329 (0.621) C:72% T:92%	pCi/L	05/28/21 16:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.629U ± 0.512 (1.00)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06920 MW-20 **Lab ID: 92534960052** Collected: 04/12/21 15:54 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	14.6 ± 2.50 (0.429) C:88% T:NA	pCi/L	05/23/21 11:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.428 (0.677) C:70% T:91%	pCi/L	05/28/21 16:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	15.6 ± 2.93 (1.11)	pCi/L	06/01/21 15:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06921 MW-20SV **Lab ID: 92534960053** Collected: 04/12/21 17:33 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.37 ± 0.466 (0.397) C:91% T:NA	pCi/L	05/23/21 11:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.139U ± 0.298 (0.659) C:73% T:88%	pCi/L	05/28/21 16:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.51 ± 0.764 (1.06)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB06922 MW-20V **Lab ID: 92534960054** Collected: 04/12/21 19:01 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.96 ± 0.569 (0.389) C:94% T:NA	pCi/L	05/23/21 11:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.179U ± 0.280 (0.605) C:71% T:87%	pCi/L	05/28/21 16:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.14 ± 0.849 (0.994)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB07000 MW-40 **Lab ID: 92534960055** Collected: 04/12/21 11:20 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.161U ± 0.175 (0.334) C:94% T:NA	pCi/L	05/23/21 11:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.153U ± 0.261 (0.652) C:70% T:91%	pCi/L	05/28/21 16:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.161U ± 0.436 (0.986)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB07001 MW-40 DUP **Lab ID: 92534960056** Collected: 04/12/21 11:20 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0673U ± 0.149 (0.354) C:88% T:NA	pCi/L	05/23/21 11:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.338U ± 0.317 (0.644) C:72% T:91%	pCi/L	05/28/21 16:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.405U ± 0.466 (0.998)	pCi/L	06/01/21 15:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB07002 MW-41 **Lab ID: 92534960057** Collected: 04/12/21 13:27 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.178U ± 0.230 (0.488) C:92% T:NA	pCi/L	05/23/21 11:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.278U ± 0.324 (0.682) C:74% T:89%	pCi/L	05/28/21 16:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.456U ± 0.554 (1.17)	pCi/L	06/01/21 15:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB07003 MW-38 **Lab ID: 92534960058** Collected: 04/12/21 17:25 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.147U ± 0.215 (0.469) C:90% T:NA	pCi/L	05/23/21 11:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.222U ± 0.283 (0.601) C:73% T:93%	pCi/L	05/28/21 16:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.369U ± 0.498 (1.07)	pCi/L	06/01/21 15:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB07004 MW-42 **Lab ID: 92534960059** Collected: 04/13/21 10:37 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.317U ± 0.284 (0.545) C:85% T:NA	pCi/L	05/23/21 11:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0870U ± 0.316 (0.714) C:74% T:93%	pCi/L	05/28/21 16:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.404U ± 0.600 (1.26)	pCi/L	06/01/21 15:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB07005 MW-42 DUP **Lab ID: 92534960060** Collected: 04/13/21 10:37 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0419U ± 0.149 (0.378) C:96% T:NA	pCi/L	05/21/21 10:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.926 ± 0.370 (0.532) C:68% T:95%	pCi/L	05/26/21 11:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.968 ± 0.519 (0.910)	pCi/L	06/01/21 15:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

Sample: BB07006 EB-1 **Lab ID: 92534960061** Collected: 04/13/21 11:30 Received: 04/20/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0200U ± 0.134 (0.364) C:94% T:NA	pCi/L	05/21/21 10:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.334U ± 0.298 (0.600) C:71% T:95%	pCi/L	05/26/21 11:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.354U ± 0.432 (0.964)	pCi/L	06/01/21 15:31	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

QC Batch: 445344	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92534960060, 92534960061

METHOD BLANK: 2149727	Matrix: Water
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Associated Lab Samples: 92534960060, 92534960061

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.113 ± 0.155 (0.324) C:95% T:NA	pCi/L	05/21/21 10:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

QC Batch:	446125	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92534960001, 92534960002, 92534960003, 92534960004, 92534960005, 92534960006, 92534960007, 92534960008, 92534960009, 92534960010, 92534960011, 92534960012, 92534960013, 92534960014, 92534960015, 92534960016, 92534960017, 92534960018, 92534960019

METHOD BLANK:	2153199	Matrix:	Water
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Associated Lab Samples: 92534960001, 92534960002, 92534960003, 92534960004, 92534960005, 92534960006, 92534960007, 92534960008, 92534960009, 92534960010, 92534960011, 92534960012, 92534960013, 92534960014, 92534960015, 92534960016, 92534960017, 92534960018, 92534960019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.606 ± 0.372 (0.689) C:68% T:90%	pCi/L	05/27/21 12:02	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

QC Batch:	445338	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92534960001, 92534960002, 92534960003, 92534960004, 92534960005, 92534960006, 92534960007, 92534960008, 92534960009, 92534960010, 92534960011, 92534960012, 92534960013, 92534960014, 92534960015, 92534960016, 92534960017, 92534960018, 92534960019

METHOD BLANK:	2149724	Matrix:	Water
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Associated Lab Samples: 92534960001, 92534960002, 92534960003, 92534960004, 92534960005, 92534960006, 92534960007, 92534960008, 92534960009, 92534960010, 92534960011, 92534960012, 92534960013, 92534960014, 92534960015, 92534960016, 92534960017, 92534960018, 92534960019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.353 ± 0.229 (0.323) C:91% T:NA	pCi/L	05/21/21 08:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

QC Batch: 446128

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92534960060, 92534960061

METHOD BLANK: 2153202

Matrix: Water

Associated Lab Samples: 92534960060, 92534960061

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.407 ± 0.336 (0.669) C:72% T:90%	pCi/L	05/26/21 11:26	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

QC Batch: 446127

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92534960040, 92534960041, 92534960042, 92534960043, 92534960044, 92534960045, 92534960046, 92534960047, 92534960048, 92534960049, 92534960050, 92534960051, 92534960052, 92534960053, 92534960054, 92534960055, 92534960056, 92534960057, 92534960058, 92534960059

METHOD BLANK: 2153201

Matrix: Water

Associated Lab Samples: 92534960040, 92534960041, 92534960042, 92534960043, 92534960044, 92534960045, 92534960046, 92534960047, 92534960048, 92534960049, 92534960050, 92534960051, 92534960052, 92534960053, 92534960054, 92534960055, 92534960056, 92534960057, 92534960058, 92534960059

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.704 ± 0.364 (0.636) C:71% T:92%	pCi/L	05/28/21 16:11	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

QC Batch:	445340	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92534960020, 92534960021, 92534960022, 92534960023, 92534960024, 92534960025, 92534960026, 92534960027, 92534960028, 92534960029, 92534960030, 92534960031, 92534960032, 92534960033, 92534960034, 92534960035, 92534960036, 92534960037, 92534960038, 92534960039		

METHOD BLANK:	2149725	Matrix:	Water
Associated Lab Samples:	92534960020, 92534960021, 92534960022, 92534960023, 92534960024, 92534960025, 92534960026, 92534960027, 92534960028, 92534960029, 92534960030, 92534960031, 92534960032, 92534960033, 92534960034, 92534960035, 92534960036, 92534960037, 92534960038, 92534960039		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0791 ± 0.162 (0.376) C:95% T:NA	pCi/L	05/21/21 09:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

QC Batch: 446126

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92534960020, 92534960021, 92534960022, 92534960023, 92534960024, 92534960025, 92534960026, 92534960027, 92534960028, 92534960029, 92534960030, 92534960031, 92534960032, 92534960033, 92534960034, 92534960035, 92534960036, 92534960037, 92534960038, 92534960039

METHOD BLANK: 2153200

Matrix: Water

Associated Lab Samples: 92534960020, 92534960021, 92534960022, 92534960023, 92534960024, 92534960025, 92534960026, 92534960027, 92534960028, 92534960029, 92534960030, 92534960031, 92534960032, 92534960033, 92534960034, 92534960035, 92534960036, 92534960037, 92534960038, 92534960039

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.408 ± 0.310 (0.606) C:77% T:88%	pCi/L	05/27/21 15:29	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

QC Batch: 445341

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92534960040, 92534960041, 92534960042, 92534960043, 92534960044, 92534960045, 92534960046, 92534960047, 92534960048, 92534960049, 92534960050, 92534960051, 92534960052, 92534960053, 92534960054, 92534960055, 92534960056, 92534960057, 92534960058, 92534960059

METHOD BLANK: 2149726

Matrix: Water

Associated Lab Samples: 92534960040, 92534960041, 92534960042, 92534960043, 92534960044, 92534960045, 92534960046, 92534960047, 92534960048, 92534960049, 92534960050, 92534960051, 92534960052, 92534960053, 92534960054, 92534960055, 92534960056, 92534960057, 92534960058, 92534960059

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0947 ± 0.195 (0.455) C:92% T:NA	pCi/L	05/23/21 10:59	

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QUALIFIERS

Project: GASTON ASH POND WMWGASAP_1317

Pace Project No.: 92534960

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92534960001	BB06223 MW-32V	EPA 9315	445338		
92534960002	BB06224 MW-37V	EPA 9315	445338		
92534960003	BB06225 MW-36V	EPA 9315	445338		
92534960004	BB06226 MW-33V	EPA 9315	445338		
92534960005	BB06227 MW-34V	EPA 9315	445338		
92534960006	BB06228 MW-35V	EPA 9315	445338		
92534960007	BB06229 FB-1	EPA 9315	445338		
92534960008	BB06525 MW-16V	EPA 9315	445338		
92534960009	BB06526 MW-16	EPA 9315	445338		
92534960010	BB06527 MW-16 DUP	EPA 9315	445338		
92534960011	BB06528 MW-28H	EPA 9315	445338		
92534960012	BB06528 MW-28H MS	EPA 9315	445338		
92534960013	BB06528 MW-28H MSD	EPA 9315	445338		
92534960014	BB06529 MW-29H	EPA 9315	445338		
92534960015	BB06530 FB-4	EPA 9315	445338		
92534960016	BB06531 MW-17V	EPA 9315	445338		
92534960017	BB06532 MW-17SV	EPA 9315	445338		
92534960018	BB06533 MW-17	EPA 9315	445338		
92534960019	BB06534 MW-18	EPA 9315	445338		
92534960020	BB06647 MW-4	EPA 9315	445340		
92534960021	BB06647 MW-4 MS	EPA 9315	445340		
92534960022	BB06647 MW-4 MSD	EPA 9315	445340		
92534960023	BB06648 MW-3	EPA 9315	445340		
92534960024	BB06649 MW-19	EPA 9315	445340		
92534960025	BB06650 MW-31VR	EPA 9315	445340		
92534960026	BB06651 FB-2	EPA 9315	445340		
92534960027	BB06652 MW-30H	EPA 9315	445340		
92534960028	BB06653 MW-15R	EPA 9315	445340		
92534960029	BB06654 MW-23S	EPA 9315	445340		
92534960030	BB06655 MW-23D	EPA 9315	445340		
92534960031	BB06656 MW-27	EPA 9315	445340		
92534960032	BB06657 MW-26	EPA 9315	445340		
92534960033	BB06658 MW-5	EPA 9315	445340		
92534960034	BB06659 MW-9	EPA 9315	445340		
92534960035	BB06660 MW-10	EPA 9315	445340		
92534960036	BB06661 MW-11	EPA 9315	445340		
92534960037	BB06662 MW-12	EPA 9315	445340		
92534960038	BB06663 MW-13	EPA 9315	445340		
92534960039	BB06664 MW-14	EPA 9315	445340		
92534960040	BB06665 MW-8	EPA 9315	445341		
92534960041	BB06666 MW-7	EPA 9315	445341		
92534960042	BB06667 MW-6	EPA 9315	445341		
92534960043	BB06667 MW-6 MS	EPA 9315	445341		
92534960044	BB06667 MW-6 MSD	EPA 9315	445341		
92534960045	BB06668 MW-21	EPA 9315	445341		
92534960046	BB06669 MW-21 DUP	EPA 9315	445341		
92534960047	BB06670 MW-22	EPA 9315	445341		
92534960048	BB06671 FB-3	EPA 9315	445341		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92534960049	BB06917 MW-39	EPA 9315	445341		
92534960050	BB06918 MW-39 DUP	EPA 9315	445341		
92534960051	BB06919 FB-5	EPA 9315	445341		
92534960052	BB06920 MW-20	EPA 9315	445341		
92534960053	BB06921 MW-20SV	EPA 9315	445341		
92534960054	BB06922 MW-20V	EPA 9315	445341		
92534960055	BB07000 MW-40	EPA 9315	445341		
92534960056	BB07001 MW-40 DUP	EPA 9315	445341		
92534960057	BB07002 MW-41	EPA 9315	445341		
92534960058	BB07003 MW-38	EPA 9315	445341		
92534960059	BB07004 MW-42	EPA 9315	445341		
92534960060	BB07005 MW-42 DUP	EPA 9315	445344		
92534960061	BB07006 EB-1	EPA 9315	445344		
92534960001	BB06223 MW-32V	EPA 9320	446125		
92534960002	BB06224 MW-37V	EPA 9320	446125		
92534960003	BB06225 MW-36V	EPA 9320	446125		
92534960004	BB06226 MW-33V	EPA 9320	446125		
92534960005	BB06227 MW-34V	EPA 9320	446125		
92534960006	BB06228 MW-35V	EPA 9320	446125		
92534960007	BB06229 FB-1	EPA 9320	446125		
92534960008	BB06525 MW-16V	EPA 9320	446125		
92534960009	BB06526 MW-16	EPA 9320	446125		
92534960010	BB06527 MW-16 DUP	EPA 9320	446125		
92534960011	BB06528 MW-28H	EPA 9320	446125		
92534960012	BB06528 MW-28H MS	EPA 9320	446125		
92534960013	BB06528 MW-28H MSD	EPA 9320	446125		
92534960014	BB06529 MW-29H	EPA 9320	446125		
92534960015	BB06530 FB-4	EPA 9320	446125		
92534960016	BB06531 MW-17V	EPA 9320	446125		
92534960017	BB06532 MW-17SV	EPA 9320	446125		
92534960018	BB06533 MW-17	EPA 9320	446125		
92534960019	BB06534 MW-18	EPA 9320	446125		
92534960020	BB06647 MW-4	EPA 9320	446126		
92534960021	BB06647 MW-4 MS	EPA 9320	446126		
92534960022	BB06647 MW-4 MSD	EPA 9320	446126		
92534960023	BB06648 MW-3	EPA 9320	446126		
92534960024	BB06649 MW-19	EPA 9320	446126		
92534960025	BB06650 MW-31VR	EPA 9320	446126		
92534960026	BB06651 FB-2	EPA 9320	446126		
92534960027	BB06652 MW-30H	EPA 9320	446126		
92534960028	BB06653 MW-15R	EPA 9320	446126		
92534960029	BB06654 MW-23S	EPA 9320	446126		
92534960030	BB06655 MW-23D	EPA 9320	446126		
92534960031	BB06656 MW-27	EPA 9320	446126		
92534960032	BB06657 MW-26	EPA 9320	446126		
92534960033	BB06658 MW-5	EPA 9320	446126		
92534960034	BB06659 MW-9	EPA 9320	446126		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92534960035	BB06660 MW-10	EPA 9320	446126		
92534960036	BB06661 MW-11	EPA 9320	446126		
92534960037	BB06662 MW-12	EPA 9320	446126		
92534960038	BB06663 MW-13	EPA 9320	446126		
92534960039	BB06664 MW-14	EPA 9320	446126		
92534960040	BB06665 MW-8	EPA 9320	446127		
92534960041	BB06666 MW-7	EPA 9320	446127		
92534960042	BB06667 MW-6	EPA 9320	446127		
92534960043	BB06667 MW-6 MS	EPA 9320	446127		
92534960044	BB06667 MW-6 MSD	EPA 9320	446127		
92534960045	BB06668 MW-21	EPA 9320	446127		
92534960046	BB06669 MW-21 DUP	EPA 9320	446127		
92534960047	BB06670 MW-22	EPA 9320	446127		
92534960048	BB06671 FB-3	EPA 9320	446127		
92534960049	BB06917 MW-39	EPA 9320	446127		
92534960050	BB06918 MW-39 DUP	EPA 9320	446127		
92534960051	BB06919 FB-5	EPA 9320	446127		
92534960052	BB06920 MW-20	EPA 9320	446127		
92534960053	BB06921 MW-20SV	EPA 9320	446127		
92534960054	BB06922 MW-20V	EPA 9320	446127		
92534960055	BB07000 MW-40	EPA 9320	446127		
92534960056	BB07001 MW-40 DUP	EPA 9320	446127		
92534960057	BB07002 MW-41	EPA 9320	446127		
92534960058	BB07003 MW-38	EPA 9320	446127		
92534960059	BB07004 MW-42	EPA 9320	446127		
92534960060	BB07005 MW-42 DUP	EPA 9320	446128		
92534960061	BB07006 EB-1	EPA 9320	446128		
92534960001	BB06223 MW-32V	Total Radium Calculation	450208		
92534960002	BB06224 MW-37V	Total Radium Calculation	450208		
92534960003	BB06225 MW-36V	Total Radium Calculation	450208		
92534960004	BB06226 MW-33V	Total Radium Calculation	450208		
92534960005	BB06227 MW-34V	Total Radium Calculation	450208		
92534960006	BB06228 MW-35V	Total Radium Calculation	450208		
92534960007	BB06229 FB-1	Total Radium Calculation	450209		
92534960008	BB06525 MW-16V	Total Radium Calculation	450209		
92534960009	BB06526 MW-16	Total Radium Calculation	450209		
92534960010	BB06527 MW-16 DUP	Total Radium Calculation	450209		
92534960011	BB06528 MW-28H	Total Radium Calculation	450209		
92534960014	BB06529 MW-29H	Total Radium Calculation	450209		
92534960015	BB06530 FB-4	Total Radium Calculation	450209		
92534960016	BB06531 MW-17V	Total Radium Calculation	450209		
92534960017	BB06532 MW-17SV	Total Radium Calculation	450209		
92534960018	BB06533 MW-17	Total Radium Calculation	450209		
92534960019	BB06534 MW-18	Total Radium Calculation	450209		
92534960020	BB06647 MW-4	Total Radium Calculation	450209		
92534960023	BB06648 MW-3	Total Radium Calculation	450209		
92534960024	BB06649 MW-19	Total Radium Calculation	450209		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GASTON ASH POND WMWGASAP_1317
Pace Project No.: 92534960

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92534960025	BB06650 MW-31VR	Total Radium Calculation	450209		
92534960026	BB06651 FB-2	Total Radium Calculation	450209		
92534960027	BB06652 MW-30H	Total Radium Calculation	450209		
92534960028	BB06653 MW-15R	Total Radium Calculation	450209		
92534960029	BB06654 MW-23S	Total Radium Calculation	450209		
92534960030	BB06655 MW-23D	Total Radium Calculation	450209		
92534960031	BB06656 MW-27	Total Radium Calculation	450484		
92534960032	BB06657 MW-26	Total Radium Calculation	450484		
92534960033	BB06658 MW-5	Total Radium Calculation	450484		
92534960034	BB06659 MW-9	Total Radium Calculation	450484		
92534960035	BB06660 MW-10	Total Radium Calculation	450485		
92534960036	BB06661 MW-11	Total Radium Calculation	450485		
92534960037	BB06662 MW-12	Total Radium Calculation	450485		
92534960038	BB06663 MW-13	Total Radium Calculation	450485		
92534960039	BB06664 MW-14	Total Radium Calculation	450485		
92534960040	BB06665 MW-8	Total Radium Calculation	450485		
92534960041	BB06666 MW-7	Total Radium Calculation	450485		
92534960042	BB06667 MW-6	Total Radium Calculation	450485		
92534960045	BB06668 MW-21	Total Radium Calculation	450485		
92534960046	BB06669 MW-21 DUP	Total Radium Calculation	450485		
92534960047	BB06670 MW-22	Total Radium Calculation	450485		
92534960048	BB06671 FB-3	Total Radium Calculation	450485		
92534960049	BB06917 MW-39	Total Radium Calculation	450485		
92534960050	BB06918 MW-39 DUP	Total Radium Calculation	450485		
92534960051	BB06919 FB-5	Total Radium Calculation	450485		
92534960052	BB06920 MW-20	Total Radium Calculation	450485		
92534960053	BB06921 MW-20SV	Total Radium Calculation	450485		
92534960054	BB06922 MW-20V	Total Radium Calculation	450485		
92534960055	BB07000 MW-40	Total Radium Calculation	450485		
92534960056	BB07001 MW-40 DUP	Total Radium Calculation	450485		
92534960057	BB07002 MW-41	Total Radium Calculation	450486		
92534960058	BB07003 MW-38	Total Radium Calculation	450486		
92534960059	BB07004 MW-42	Total Radium Calculation	450486		
92534960060	BB07005 MW-42 DUP	Total Radium Calculation	450486		
92534960061	BB07006 EB-1	Total Radium Calculation	450486		

REPORT OF LABORATORY ANALYSIS

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Pittsburgh Lab Sample Condition Upon Receipt

WO#: 92534960



Client Name: Alabama Power Co



Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 9591 0670 2953

LIMS Login

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used: Type of Ice: Wet Blue None

Cooler Temperature Observed Temp °C Correction Factor: °C Final Temp: °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:
				10D1101	4-23-21 <u>JA</u>
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.	<u>no name or signature</u>
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.	
-Includes date/time/ID Matrix: <u>GW</u>					
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.	
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.	
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.	
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.	
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.	
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.	
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.	
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	<u>pH < 2</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed	Date/time of preservation
				<u>JA</u>	<u>4-23-21 15:39</u>
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.	
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.	
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed:	Date: Survey Meter SN:
				<u>JA</u>	<u>4-23-21 1963</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 City: Calera, AL 35040
 Email To: lmidkiff@southernco.com
 Phone: 205-664-6197 Fax
 Requested Due Date: 28 days

Section B
 Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC57570-0001
 Project Name: Plant Gaston Ash Pond
 Project Number: WMMWGASAP 1317

Section C
 Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Kevin Herring@pacelabs.com
 Pace Profile #: 13805

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
			START DATE	END DATE						
1	MMW-32V	GMG	3/30/2021	7:47	1	Unpreserved				
2	BBO6224	GMG	3/30/2021	9:25	1	H2SO4				
3	BBO6225	GMG	3/30/2021	11:00	1	HNO3				
4	BBO6228	GMG	3/30/2021	12:27	1	HCl				
5	BBO6227	GMG	3/30/2021	14:02	1	NaOH				
6	BBO6228	GMG	3/30/2021	15:52	1	Na2S2O3				
7	BBO6229	GMG	3/30/2021	16:35	1	Methanol				
8						Other				
9										
10										
11										
12										

ADDITIONAL COMMENTS: Laura Midkiff APC GTL

REQUISISHED BY / AFFILIATION: DATE: 4/14/2021 TIME: 14:00

ACCEPTED BY / AFFILIATION: *Tommy Anderson* DATE: 4-20-21 TIME: 10:30

REGULATORY AGENCY: AL

DATE Signed: _____

TEMP in C: _____

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35004 Email To: lmidriff@southernco.com Phone: 205-664-6197 Fax: Requested Due Date: 28 days

Section B Required Project Information: Report To: Laura Midriff Copy To: Brooke Caton & Renee Jernigan Purchase Order #: APC57570-0001 Project Name: Plant Gasston Ash Pond Project Number: WMW/GASAP 1317

Section C Invoice Information: Attention: Laura Midriff Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 PACE QUOTE: CCR PACE Project Manager: Kevin Herring@pacelabs.com PACE Profile #: 13805 Requested Analysis Filtered (Y/N): AL

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9 /, -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Process Sewage Other Tank	CODE DW WT WW P SL CL WR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Unpreserved	Preservatives						Analytes Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)						
						START	END	DATE				TIME		H2SO4	HNO3	HCl	NaOH								Na2S2O3	Methanol	Other			
						DATE	TIME	DATE	TIME			DATE	TIME	DATE	TIME	DATE	TIME								DATE	TIME	DATE	TIME		
1	BB06917			MM-39	GWG			4/12/2021	10:08	1	X	X	X	X	X	X	X	X	X	X	X	X	X							
2	BB06918			MM-39 DUP	GWG			4/12/2021	10:08	1	X	X	X	X	X	X	X	X	X	X	X	X	X							
3	BB06919			FB-5	GWG			4/12/2021	10:35	1	X	X	X	X	X	X	X	X	X	X	X	X	X							
4	BB06920			MM-20	GWG			4/12/2021	15:54	1	X	X	X	X	X	X	X	X	X	X	X	X	X							
5	BB06921			MM-20SV	GWG			4/12/2021	17:33	1	X	X	X	X	X	X	X	X	X	X	X	X	X							
6	BB06922			MM-20V	GWG			4/12/2021	19:01	1	X	X	X	X	X	X	X	X	X	X	X	X	X							
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS: Laura Midriff APC GTL

RETIRED/ISSUED BY/ AFFILIATION: DATE: 4/14/2021 TIME: 14:00

ACCEPTED BY/ AFFILIATION: *Kevin Herring* DATE: 4-21-21 TIME: 10:30

TEMP IN C: -

Received on ice (Y/N): N

Custody Sealed Cooler (Y/N): Y

Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: SIGNATURE of SAMPLER: DATE Signed:

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 4/29/2021
Worklist: 60187
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2149724
MB Concentration	0.333
MB Counting Uncertainty	0.224
MB MDC	0.323
MB Numerical Performance Indicator	3.09
MB Status vs Numerical Indicator	N/A
MB Status vs MDC	See Comment*

Laboratory Control Sample Assessment		
Count Date	LCS# (Y or N)?	Y
5/21/2021	LCS60187	LCS60187
Decay Corrected Spike Concentration (pCi/mL)	19.033	19.033
Volume Used (mL)	24.037	24.037
Aliquot Volume (L, g, F)	0.10	0.10
Target Conc. (pCi/L, g, F)	11.784	12.015
Uncertainty (Calculated)	0.141	0.144
Result (pCi/L, g, F)	11.601	12.143
LCS/LCSD Counting Uncertainty (pCi/L, g, F)	1.148	1.204
Numerical Performance Indicator	-0.48	0.21
Percent Recovery	97.60%	101.06%
Status vs Numerical Indicator	N/A	N/A
Status vs Recovery	Pass	Pass
Upper % Recovery Limit	125%	125%
Lower % Recovery Limit	75%	75%

Duplicate Sample Assessment		
Sample ID	Duplicate Sample ID	LCS# (Y or N)?
LCS60187	LCS60187	LCS60187
Sample Result (pCi/L, g, F)	11.501	11.501
Sample Result Counting Uncertainty (pCi/L, g, F)	1.148	1.148
Sample Duplicate Result (pCi/L, g, F)	12.143	12.143
Sample Duplicate Counting Uncertainty (pCi/L, g, F)	1.204	1.204
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator	-0.756	-0.756
Duplicate Percent Recoveries	3.48%	3.48%
Duplicate Status vs Numerical Indicator	N/A	N/A
Duplicate Status vs RPD	Pass	Pass
% RPD Limit	25%	25%

Sample Matrix Spike Control Assessment		
Sample Collection Date	MS/MSTD 1	MS/MSTD 2
4/5/2021	MS/MSTD 1	MS/MSTD 2
Sample ID	92534960011	92534960012
Sample MS ID	92534960012	92534960013
Sample MS ID	92534960013	
Spike ID	19-033	
MS/MSTD Decay Corrected Spike Concentration (pCi/mL)	24.039	
Spike Volume Used in MS (mL)	0.20	
Spike Volume Used in MSD (mL)	0.20	
MS Aliquot (L, g, F)	0.237	
MS Target Conc. (pCi/L, g, F)	20.324	
MSD Aliquot (L, g, F)	0.219	
MSD Target Conc. (pCi/L, g, F)	21.949	
MS Spike Uncertainty (calculated)	0.244	
MSD Spike Uncertainty (calculated)	0.283	
Sample Result	5.612	
Sample Matrix Spike Result	0.905	
Sample Result Counting Uncertainty (pCi/L, g, F)	27.713	
Sample Matrix Spike Result	1.695	
Sample Matrix Spike Duplicate Result	28.234	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F)	1.803	
MS Numerical Performance Indicator	1.841	
MSD Numerical Performance Indicator	0.662	
MSD Percent Recovery	108.75%	
MS Status vs Numerical Indicator	N/A	
MS Status vs Recovery	Pass	
MSD Status vs Recovery	Pass	
MS/MSTD Upper % Recovery Limit	125%	
MS/MSTD Lower % Recovery Limit	75%	

Matrix Spike/duplicate Sample Assessment		
Sample ID	Sample MS ID	MS/MSTD Duplicate Status vs Numerical Indicator
92534960011	92534960011	Pass
92534960012	92534960012	Pass
92534960013	92534960013	Pass
Sample Matrix Spike Result	27.713	
Sample Matrix Spike Duplicate Result	28.234	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F)	1.803	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F)	1.803	
Duplicate Numerical Performance Indicator	-0.412	
Duplicate Percent Recoveries	5.37%	
Duplicate Status vs Numerical Indicator	N/A	
Duplicate Status vs RPD	Pass	
% RPD Limit	25%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.
Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Handwritten: OK 5/10/21

Handwritten: WAM 5/21/21



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 4/30/2021
Worklist: 60188
Matrix: DW

Method Blank Assessment	
MB Sample ID	2149725
MB Concentration:	0.079
MB Counting Uncertainty:	0.161
MB MDC:	0.378
MB Numerical Performance Indicator:	0.96
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?
Count Date:	Spike ID:	
Decay Corrected Spike Concentration (pCi/mL):	19-033	Y
Volume Used (mL):	24.037	
Aliquot Volume (L, g, F):	0.10	
Target Conc. (pCi/L, g, F):	11.420	
Uncertainty (Calculated):	0.137	
Result (pCi/L, g, F):	11.114	
LCSLCSD Counting Uncertainty (pCi/L, g, F):	1.080	
Numerical Performance Indicator:	0.55	
Percent Recovery:	97.32%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment	
Sample ID:	LCSD60188
Duplicate Sample ID:	LCSD60188
Sample Result (pCi/L, g, F):	11.114
Sample Result Counting Uncertainty (pCi/L, g, F):	1.080
Sample Duplicate Result (pCi/L, g, F):	11.812
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.177
Are sample and/or duplicate results below RL?	NO
Are sample and/or duplicate results below RLD?	-0.856
Duplicate Numerical Performance Indicator:	6.39%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	N/A
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/5/2021		
Sample ID:	92534960020		
Sample MS/MSD ID:	92534960021		
Sample MS/MSD ID:	92534960022		
Spike ID:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.039		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.224		
MS Target Conc. (pCi/L, g, F):	21.437		
MSD Aliquot (L, g, F):	0.217		
MSD Target Conc. (pCi/L, g, F):	22.165		
MS Spike Uncertainty (calculated):	0.257		
MSD Spike Uncertainty (calculated):	0.286		
MSD Spike Uncertainty (calculated):	0.207		
Sample Result:	0.196		
Sample Matrix Spike Result:	25.542		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.690		
Sample Matrix Spike Duplicate Result:	24.671		
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.623		
MS Numerical Performance Indicator:	4.54%		
MSD Numerical Performance Indicator:	2.721		
MS Percent Recovery:	116.18%		
MSD Percent Recovery:	110.37%		
MS Status vs Numerical Indicator:	N/A		
MSD Status vs Numerical Indicator:	N/A		
MS Status vs Recovery:	Pass		
MSD Status vs Recovery:	Pass		
MS/MSD Upper % Recovery Limits:	125%		
MS/MSD Lower % Recovery Limits:	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample ID:	92534960020
Sample MS/MSD ID:	92534960021
Sample MS/MSD ID:	92534960022
Sample Matrix Spike Result:	25.542
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.680
Sample Matrix Spike Duplicate Result:	24.671
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.623
Duplicate Numerical Performance Indicator:	0.738
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	6.83%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

OK

Am 5/2/21

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 4/30/2021
Worklist: 60189
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2149726
MB Concentration:	0.095
MB Counting Uncertainty:	0.195
MB MDC:	0.465
MB Numerical Performance Indicator:	0.96
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCSD(Y or N)?	Y
Count Date:	5/23/2021	LCSD60189	LCSD60189
Spike I.D.:	19-033	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.037	24.037	24.037
Volume Used (mL):	0.10	0.10	0.10
Aliquot Volume (L, g, F):	0.208	0.204	0.204
Target Conc. (pCi/L, g, F):	11.567	11.785	11.785
Uncertainty (Calculated):	0.139	0.141	0.141
Result (pCi/L, g, F):	10.340	12.645	12.645
LCSD Counting Uncertainty (pCi/L, g, F):	1.098	1.190	1.190
Numerical Performance Indicator:	-2.17	1.41	1.41
Percent Recovery:	89.39%	107.30%	107.30%
Status vs Numerical Indicator:	N/A	N/A	N/A
Status vs Recovery:	Pass	Pass	Pass
Upper % Recovery Limit:	125%	125%	125%
Lower % Recovery Limit:	75%	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCSD60189
Duplicate Sample I.D.:	LCSD60189
Sample Result (pCi/L, g, F):	10.340
Sample Result Counting Uncertainty (pCi/L, g, F):	1.098
Sample Duplicate Result (pCi/L, g, F):	12.645
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.190
Are sample and/or duplicate results below RL? <u>Y</u>	NO
Duplicate Numerical Performance Indicator:	-2.790
(Based on the LCSD Percent Recoveries) Duplicate RPD:	18.21%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/7/2021	MS/MSD 1	MS/MSD 2
Sample I.D.:	92534960042	92534960042	92534960043
Sample MS I.D.:	92534960043	92534960043	92534960044
Sample MSD I.D.:	92534960044	92534960044	92534960044
Spike I.D.:	19-033	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039	24.039
Spike Volume Used in MS (mL):	0.20	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20	0.20
MS Aliquot (L, g, F):	0.216	0.216	0.216
MS Target Conc. (pCi/L, g, F):	22.272	22.272	22.272
MSD Aliquot (L, g, F):	0.221	0.221	0.221
MSD Target Conc. (pCi/L, g, F):	21.778	21.778	21.778
MSD Percent Recovery (calculated):	0.267	0.267	0.267
MSD Spike Uncertainty (calculated):	0.261	0.261	0.261
MSD Spike Uncertainty:	0.141	0.141	0.141
Sample Result:	0.180	0.180	0.180
Sample Result Counting Uncertainty (pCi/L, g, F):	25.012	25.012	25.012
Sample Matrix Spike Result:	1.652	1.652	1.652
Sample Matrix Spike Duplicate Result:	24.141	24.141	24.141
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.584	1.584	1.584
MS Numerical Performance Indicator:	3.028	3.028	3.028
MSD Numerical Performance Indicator:	2.698	2.698	2.698
MS Percent Recovery:	111.67%	111.67%	111.67%
MSD Percent Recovery:	110.20%	110.20%	110.20%
MSD Status vs Numerical Indicator:	N/A	N/A	N/A
MS Status vs Recovery:	Pass	Pass	Pass
MSD Status vs Recovery:	Pass	Pass	Pass
MS/MSD Upper % Recovery Limit:	125%	125%	125%
MS/MSD Lower % Recovery Limit:	75%	75%	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92534960042
Sample MS I.D.:	92534960043
Sample MSD I.D.:	92534960044
Sample Matrix Spike Result:	25.012
Sample Matrix Spike Duplicate Result:	1.652
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	24.141
Sample Matrix Spike Duplicate Result:	1.584
Duplicate Numerical Performance Indicator:	0.746
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	1.32%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Call 5/13/21

AMS123121

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 4/30/2021
Worklist: 60190
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2149727
MB Concentration:	0.113
MB Counting Uncertainty:	0.166
MB MDC:	0.324
MB Numerical Performance Indicator:	1.43
MB Status vs. Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Sample ID:	Count Date:	LCSD60190	LCSD60190
Spike I.D.:	5/21/2021	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.037	0.10	0.10
Volume Used (mL):	0.208	0.205	0.205
Aliquot Volume (L, g, F):	11.560	11.728	11.728
Target Conc. (pCi/L, g, F):	0.139	0.141	0.141
Uncertainty (Calculated):	12.157	10.220	10.220
Result (pCi/L, g, F):	1.156	1.021	1.021
LCSD/CSD Counting Uncertainty Indicator:	1.00	-2.87	-2.87
Numerical Performance Indicator:	105.16%	87.14%	87.14%
Percent Recovery:	N/A	N/A	N/A
Status vs Numerical Indicator:	Pass	Pass	Pass
Status vs Recovery:	125%	125%	125%
Upper % Recovery Limit:	125%	125%	125%
Lower % Recovery Limit:	75%	75%	75%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	Sample Result:		
Sample I.D.:	MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Sample MS I.D.:	Spike Volume Used in MS (mL):		
Sample MSD I.D.:	Spike Volume Used in MSD (mL):		
	MS Aliquot (L, g, F):		
	MS Target Conc. (pCi/L, g, F):		
	MSD Aliquot (L, g, F):		
	MSD Target Conc. (pCi/L, g, F):		
	MS Spike Uncertainty (calculated):		
	MSD Spike Uncertainty (calculated):		
	Sample Result:		
	Sample Matrix Spike Result:		
	Sample Matrix Spike Result:		
	Sample Matrix Spike Duplicate Result:		
	Sample Matrix Spike Duplicate Result:		
	Matrix Spike Counting Uncertainty (pCi/L, g, F):		
	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
	MS Numerical Performance Indicator:		
	MSD Numerical Performance Indicator:		
	MS Percent Recovery:		
	MSD Percent Recovery:		
	MS Status vs Numerical Indicator:		
	MSD Status vs Numerical Indicator:		
	MS Status vs Recovery:		
	MSD Status vs Recovery:		
	MS/MSD Upper % Recovery Limit:		
	MS/MSD Lower % Recovery Limit:		

Duplicate Sample Assessment		Sample I.D.:	LCSD60190
Sample I.D.:	Duplicate Sample I.D.:	LCSD60190	LCSD60190
Sample Result (pCi/L, g, F):	Sample Result (pCi/L, g, F):	12.157	12.157
Sample Duplicate Result (pCi/L, g, F):	Sample Duplicate Result (pCi/L, g, F):	1.156	1.156
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	10.220	10.220
Are sample and/or duplicate results below RL?		NO	NO
Duplicate Numerical Performance Indicator:		2.462	2.462
Duplicate Percent Recoveries) Duplicate RPD:		18.74%	18.74%
Duplicate Status vs Numerical Indicator:		N/A	N/A
Duplicate Status vs RPD:		Pass	Pass
% RPD Limit:		25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		Sample I.D.:	MS/MSD 1	MS/MSD 2
Sample I.D.:	Sample MS I.D.:	Sample MSD I.D.:		
Matrix Spike Result:	Matrix Spike Result:	Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result:		
Matrix Spike Counting Uncertainty (pCi/L, g, F):	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Matrix Spike Numerical Performance Indicator:	Matrix Spike Duplicate Result Numerical Performance Indicator:	Matrix Spike Duplicate Result Numerical Performance Indicator:		
Matrix Spike Percent Recoveries) Matrix Spike Duplicate RPD:	Matrix Spike Duplicate Result Percent Recoveries) Matrix Spike Duplicate RPD:	Matrix Spike Duplicate Result Percent Recoveries) Matrix Spike Duplicate RPD:		
Matrix Spike Status vs Numerical Indicator:	Matrix Spike Duplicate Result Status vs Numerical Indicator:	Matrix Spike Duplicate Result Status vs Numerical Indicator:		
Matrix Spike Status vs RPD:	Matrix Spike Duplicate Result Status vs RPD:	Matrix Spike Duplicate Result Status vs RPD:		
% RPD Limit:				

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.
Comments:

TAR DW/QC
Printed: 5/21/2021 4:00 PM
1 of 1
CAG
glu/h
CAG 5/21/21
TAR_60190_W.XLS
Total Alpha Radium (ENV-FRM-GBUR-0142.F03).xls

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 5/24/2021
Worklist: 60306
Matrix: WIT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2153199
MB Concentration:	0.606
MB 2 Sigma CSU:	0.372
MB MDC:	0.689
MB Numerical Performance Indicator:	3.19
MB Status vs Numerical Indicator:	Fail
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	5/27/2021
Spike ID:	LCSD60306
Decay Corrected Spike Concentration (pCi/mL):	21.003
Volume Used (mL):	37.542
Alcohol Volume (L, g, F):	0.10
Target Conc. (pCi/L, g, F):	0.815
Uncertainty (Calculated):	4.604
Result (pCi/L, g, F):	0.228
LCSD 2 Sigma CSU (pCi/L, g, F):	4.885
Numerical Performance Indicator:	1.107
Percent Recovery:	0.49
Status vs Numerical Indicator:	106.11%
Status vs Recovery:	Pass
Upper % Recovery Limit:	135%
Lower % Recovery Limit:	60%

Duplicate Sample Assessment	
Sample ID:	Sample ID:
Duplicate Sample ID:	Duplicate Sample ID:
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Result (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):	Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
Duplicate RPD:	Duplicate RPD:
Duplicate Status vs Numerical Indicator:	Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:	Duplicate Status vs RPD:
% RPD Limit:	% RPD Limit:

Sample Matrix Spike Control Assessment		MSMSD 1	MSMSD 2
Sample Collection Date:	4/6/2021		
Sample ID:	92534960011		
Sample MS ID:	92534960012		
Sample MSD ID:	92534960013		
Spike ID:	21.003		
MSMSD Decay Corrected Spike Concentration (pCi/mL):	38.190		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.823		
MS Target Conc. (pCi/L, g, F):	9.278		
MSD Aliquot (L, g, F):	0.815		
MSD Target Conc. (pCi/L, g, F):	9.373		
MS Spike Uncertainty (calculated):	0.455		
MSD Spike Uncertainty (calculated):	0.459		
Sample Result:	1.030		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.492		
Sample Matrix Spike Result:	12.657		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.501		
Sample Matrix Spike Duplicate Result:	9.815		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.979		
MS Numerical Performance Indicator:	1.778		
MSD Numerical Performance Indicator:	-0.552		
MS Percent Recovery:	125.32%		
MSD Percent Recovery:	93.72%		
MS Status vs Numerical Indicator:	Pass		
MS Status vs Numerical Indicator:	Pass		
MS Status vs Recovery:	Pass		
MSD Status vs Recovery:	Pass		
MSMSD Upper % Recovery Limit:	135%		
MSMSD Lower % Recovery Limit:	80%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample ID:	Sample ID:
Sample MS ID:	Sample MS ID:
Sample MSD ID:	Sample MSD ID:
Sample Matrix Spike Result:	Sample Matrix Spike Result:
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:	MS/MSD Duplicate Status vs RPD:
% RPD Limit:	% RPD Limit:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: ~~Method activity 33006 in this matrix is greater than three times the blank value. The blank is acceptable. Otherwise this batch may be reprocessed.~~

MS activity & MDC

5/28/21

5/28/21

5/28/21

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 5/24/2021
Worksheet: 60307
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2153200
MB Concentration:	0.408
MB 2 Sigma CSU:	0.310
MB MDC:	0.606
MB Numerical Performance Indicator:	2.58
MB Status vs Numerical Indicator:	Warning
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LC/SD (Y or N)?	N
Count Date:	5/27/2021	LCSD60307	LCSD60307
Spike I.D.:	21-003		
Decay Corrected Spike Concentration (pCi/ml):	37.540		
Volume Used (ml):	0.10		
Alliquot Volume (L, g, F):	0.827		
Target Conc. (pCi/L, g, F):	4.537		
Uncertainty (Calculated):	0.222		
Result (pCi/L, g, F):	4.663		
LC/SD 2 Sigma CSU (pCi/L, g, F):	1.061		
Numerical Performance Indicator:	0.23		
Percent Recovery:	102.76%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limit:	135%		
Lower % Recovery Limit:	60%		

Duplicate Sample Assessment		LC/SD (Y or N)?	N
Sample I.D.:	Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):	Sample Result (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):	Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample or/and duplicate results below RL?	Are sample or/and duplicate results below RL?		
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:		
Duplicate RPD:	Duplicate RPD:		
Duplicate Status vs Numerical Indicator:	Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:	Duplicate Status vs RPD:		
% RPD Limit:	% RPD Limit:		

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/5/2021		
Sample I.D.:	92534960020		
Sample MS I.D.:	92534960021		
Sample MSD I.D.:	92534960022		
MS/MSD Decay Corrected Spike Concentration (pCi/ml):	38.193		
Spike Volume Used in MS (ml):	0.20		
Spike Volume Used in MSD (ml):	0.20		
MS Aliquot (L, g, F):	0.815		
MS Target Conc. (pCi/L, g, F):	9.370		
MSD Aliquot (L, g, F):	0.926		
MSD Target Conc. (pCi/L, g, F):	9.245		
MS Spike Uncertainty (calculated):	0.459		
MSD Spike Uncertainty (calculated):	0.453		
Sample Result:	0.267		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.284		
Sample Matrix Spike Result:	9.093		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.816		
Sample Matrix Spike Duplicate Result:	10.175		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.017		
MS Numerical Performance Indicator:	-0.963		
MSD Numerical Performance Indicator:	0.623		
MS Percent Recovery:	84.19%		
MSD Percent Recovery:	107.17%		
MS Status vs Numerical Indicator:	Pass		
MS Status vs Recovery:	Pass		
MS/MSD Upper % Recovery Limit:	135%		
MS/MSD Lower % Recovery Limit:	60%		

Enter Duplicate sample IDs if other than LC/SD in the space below.

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	92534960020
Sample MS I.D.:	92534960021
Sample MSD I.D.:	92534960022
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	9.093
Sample Matrix Spike Duplicate Result:	1.816
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	10.175
Duplicate Numerical Performance Indicator:	2.017
(Based on the Percent Recovery) MS/MSD Duplicate RPD:	-0.782
MS/MSD Duplicate Status vs Numerical Indicator:	12.80%
MS/MSD Duplicate Status vs Recovery:	Pass
% RPD Limit:	36%

Comments: # Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Call 513.614

1085



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 5/21/2021
Worklist: 60309
Matrix: WT

Method Blank Assessment	
MB Sample ID	2153202
MB concentration:	0.407
MB 2 Sigma CSU:	0.336
MB MDC:	0.669
MB Numerical Performance Indicator:	2.37
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	5/26/2021
Spike I.D.:	21-003
Decay Corrected Spike Concentration (pCi/ml):	37.555
Volume Used (ml):	0.10
Aliquot Volume (l, g, F):	0.808
Target Conc. (pCi/L, g, F):	4.647
Uncertainty (Calculated):	0.228
Result (pCi/L, g, F):	4.493
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.005
Numerical Performance Indicator:	-0.21
Percent Recovery:	97.60%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limit:	135%
Lower % Recovery Limit:	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS60309
Duplicate Sample I.D.:	LCSD60309
Sample Result (pCi/L, g, F):	4.493
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.005
Sample Duplicate Result (pCi/L, g, F):	5.019
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.116
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.686
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.12%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/ml):		
Spike Volume Used in MS (ml):		
Spike Volume Used in MSD (ml):		
MS Aliquot (l, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (l, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limit:		
MS/MSD Lower % Recovery Limit:		

Matrix Spike/Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.
Comments:

Quality Control Sample Performance Assessment



Test: Ra-228
 Analyst: VAL
 Date: 5/25/2021
 Worklist: 60308
 Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow

Method Blank Assessment	
MB Sample ID	2153201
MB concentration:	0.704
M/B 2 Sigma CSU:	0.364
MB MDC:	0.636
MB Numerical Performance Indicator:	3.79
MB Status vs Numerical Indicator:	Fail*
MB Status vs MDC:	See Comment*

Laboratory Control Sample Assessment		LC/SD (Y or N)?	
Count Date:	5/28/2021	LC/SD60308	N
Spike I.D.:	21-003	LC/SD960042	
Decay Corrected Spike Concentration (pCi/mL):	37.528		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.816		
Target Conc. (pCi/L, g, F):	4.600		
Uncertainty (Calculated):	0.225		
Result (pCi/L, g, F):	4.858		
LC/SD 2 Sigma CSU (pCi/L, g, F):	1.096		
Numerical Performance Indicator:	0.45		
Percent Recovery:	105.61%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limit:	135%		
Lower % Recovery Limit:	60%		

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LC/SD in the space below:
Sample I.D.:	Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below **	
Duplicate Numerical Performance Indicator:	Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	Duplicate Status vs RPD:	
Duplicate Status vs RPD:	% RPD Limit:	

Sample Matrix Spike Control Assessment		Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample I.D.:	Sample MS I.D.:	4/7/2021	MS/MSD 1	MS/MSD 2
Sample MS I.D.:	Sample MSD I.D.:	92534960042	92534960042	92534960043
Sample MSD I.D.:	Sample Matrix Spike Result:	92534960044	92534960044	92534960044
Spike I.D.:	Sample Result:	21-003	21-003	21-003
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Sample Result:	38.167	38.167	38.167
Spike Volume Used in MS (mL):	Sample Matrix Spike Result:	0.20	0.20	0.20
Spike Volume Used in MSD (mL):	Sample Matrix Spike Duplicate Result:	0.20	0.20	0.20
MS Aliquot (L, g, F):	Sample Matrix Spike Duplicate Result:	0.824	0.824	0.824
MS Target Conc. (pCi/L, g, F):	MS Numerical Performance Indicator:	9.260	9.260	9.260
MS Aliquot (L, g, F):	MS Percent Recovery:	0.821	0.821	0.821
MSD Target Conc. (pCi/L, g, F):	MSD Percent Recovery:	9.302	9.302	9.302
MSD Aliquot (L, g, F):	MSD Numerical Performance Indicator:	0.454	0.454	0.454
MSD Target Conc. (pCi/L, g, F):	MSD Status vs Numerical Indicator:	0.456	0.456	0.456
MSD Spike Uncertainty (calculated):	MSD Status vs Recovery:	0.246	0.246	0.246
MSD Spike Uncertainty (calculated):	MS/MSD Upper % Recovery Limit:	0.382	0.382	0.382
Sample Result:	MS/MSD Lower % Recovery Limit:	0.353	0.353	0.353
Sample Result 2 Sigma CSU (pCi/L, g, F):		1.760	1.760	1.760
Sample Matrix Spike Result:		8.026	8.026	8.026
Sample Matrix Spike Duplicate Result:		1.689	1.689	1.689
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		-1.221	-1.221	-1.221
MS Numerical Performance Indicator:		-1.661	-1.661	-1.661
MSD Numerical Performance Indicator:		97.55%	97.55%	97.55%
MS Percent Recovery:		83.85%	83.85%	83.85%
MSD Percent Recovery:		Pass	Pass	Pass
MS Status vs Numerical Indicator:		Pass	Pass	Pass
MSD Status vs Numerical Indicator:		Pass	Pass	Pass
MS Status vs Recovery:		Pass	Pass	Pass
MSD Status vs Recovery:		Pass	Pass	Pass
MS/MSD Upper % Recovery Limit:		135%	135%	135%
MS/MSD Lower % Recovery Limit:		60%	60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		Sample I.D.:	MS/MSD 1	MS/MSD 2
Sample I.D.:	Sample MS I.D.:	92534960042	92534960042	92534960043
Sample MS I.D.:	Sample MSD I.D.:	92534960044	92534960044	92534960044
Sample MSD I.D.:	Sample Matrix Spike Result:	8.353	8.353	8.353
Sample Matrix Spike Result:	Sample Matrix Spike Duplicate Result:	1.760	1.760	1.760
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	8.026	8.026	8.026
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Duplicate Numerical Performance Indicator:	1.699	1.699	1.699
Duplicate Numerical Performance Indicator:	Duplicate Status vs Numerical Indicator:	0.261	0.261	0.261
Duplicate Status vs Numerical Indicator:	Duplicate Status vs RPD:	4.55%	4.55%	4.55%
Duplicate Status vs RPD:	% RPD Limit:	Pass	Pass	Pass
% RPD Limit:		36%	36%	36%

Comments:
 *The method blank result is below the reporting limit for this analysis and is acceptable.

** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

OK
 6/1/21

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-32V	3/30/2021 7:14	Conductivity	628.03	uS/cm
GN-AP-MW-32V	3/30/2021 7:14	DO	1.07	mg/L
GN-AP-MW-32V	3/30/2021 7:14	Depth to Water Detail	42.92	ft
GN-AP-MW-32V	3/30/2021 7:14	Oxidation Reduction Potention	-239.21	mv
GN-AP-MW-32V	3/30/2021 7:14	pH	7.54	SU
GN-AP-MW-32V	3/30/2021 7:14	Temperature	17.38	C
GN-AP-MW-32V	3/30/2021 7:14	Turbidity	1.47	NTU
GN-AP-MW-32V	3/30/2021 7:19	Conductivity	609.64	uS/cm
GN-AP-MW-32V	3/30/2021 7:19	DO	0.69	mg/L
GN-AP-MW-32V	3/30/2021 7:19	Depth to Water Detail	43.51	ft
GN-AP-MW-32V	3/30/2021 7:19	Oxidation Reduction Potention	-263.67	mv
GN-AP-MW-32V	3/30/2021 7:19	pH	7.56	SU
GN-AP-MW-32V	3/30/2021 7:19	Temperature	17.86	C
GN-AP-MW-32V	3/30/2021 7:19	Turbidity	0.95	NTU
GN-AP-MW-32V	3/30/2021 7:24	Conductivity	643.5	uS/cm
GN-AP-MW-32V	3/30/2021 7:24	DO	0.56	mg/L
GN-AP-MW-32V	3/30/2021 7:24	Depth to Water Detail	43.86	ft
GN-AP-MW-32V	3/30/2021 7:24	Oxidation Reduction Potention	-276.95	mv
GN-AP-MW-32V	3/30/2021 7:24	pH	7.63	SU
GN-AP-MW-32V	3/30/2021 7:24	Temperature	18.04	C
GN-AP-MW-32V	3/30/2021 7:24	Turbidity	0.91	NTU
GN-AP-MW-32V	3/30/2021 7:29	Conductivity	719.51	uS/cm
GN-AP-MW-32V	3/30/2021 7:29	DO	0.53	mg/L
GN-AP-MW-32V	3/30/2021 7:29	Depth to Water Detail	44.1	ft
GN-AP-MW-32V	3/30/2021 7:29	Oxidation Reduction Potention	-271.72	mv
GN-AP-MW-32V	3/30/2021 7:29	pH	7.76	SU
GN-AP-MW-32V	3/30/2021 7:29	Temperature	18.27	C
GN-AP-MW-32V	3/30/2021 7:29	Turbidity	0.87	NTU
GN-AP-MW-32V	3/30/2021 7:34	Conductivity	744.9	uS/cm
GN-AP-MW-32V	3/30/2021 7:34	DO	0.54	mg/L
GN-AP-MW-32V	3/30/2021 7:34	Depth to Water Detail	44.36	ft
GN-AP-MW-32V	3/30/2021 7:34	Oxidation Reduction Potention	-260.74	mv
GN-AP-MW-32V	3/30/2021 7:34	pH	7.84	SU
GN-AP-MW-32V	3/30/2021 7:34	Temperature	18.74	C
GN-AP-MW-32V	3/30/2021 7:34	Turbidity	0.96	NTU
GN-AP-MW-32V	3/30/2021 7:39	Conductivity	749.99	uS/cm
GN-AP-MW-32V	3/30/2021 7:39	DO	0.55	mg/L
GN-AP-MW-32V	3/30/2021 7:39	Depth to Water Detail	44.48	ft
GN-AP-MW-32V	3/30/2021 7:39	Oxidation Reduction Potention	-255.79	mv
GN-AP-MW-32V	3/30/2021 7:39	pH	7.85	SU
GN-AP-MW-32V	3/30/2021 7:39	Temperature	18.64	C
GN-AP-MW-32V	3/30/2021 7:39	Turbidity	1.24	NTU
GN-AP-MW-32V	3/30/2021 7:44	Conductivity	750.43	uS/cm
GN-AP-MW-32V	3/30/2021 7:44	DO	0.55	mg/L

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-32V	3/30/2021 7:44	Depth to Water Detail	44.6	ft
GN-AP-MW-32V	3/30/2021 7:44	Oxidation Reduction Potention	-254.15	mv
GN-AP-MW-32V	3/30/2021 7:44	pH	7.86	SU
GN-AP-MW-32V	3/30/2021 7:44	Temperature	18.68	C
GN-AP-MW-32V	3/30/2021 7:44	Turbidity	1.16	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-33V	3/30/2021 12:09	Conductivity	575.81	uS/cm
GN-AP-MW-33V	3/30/2021 12:09	DO	0.45	mg/L
GN-AP-MW-33V	3/30/2021 12:09	Depth to Water Detail	47.28	ft
GN-AP-MW-33V	3/30/2021 12:09	Oxidation Reduction Potention	-297.55	mv
GN-AP-MW-33V	3/30/2021 12:09	pH	7.58	SU
GN-AP-MW-33V	3/30/2021 12:09	Temperature	22	C
GN-AP-MW-33V	3/30/2021 12:09	Turbidity	2.7	NTU
GN-AP-MW-33V	3/30/2021 12:24	Conductivity	579.01	uS/cm
GN-AP-MW-33V	3/30/2021 12:24	DO	0.49	mg/L
GN-AP-MW-33V	3/30/2021 12:24	Depth to Water Detail	49.35	ft
GN-AP-MW-33V	3/30/2021 12:24	Oxidation Reduction Potention	-271.48	mv
GN-AP-MW-33V	3/30/2021 12:24	pH	7.82	SU
GN-AP-MW-33V	3/30/2021 12:24	Temperature	22.06	C
GN-AP-MW-33V	3/30/2021 12:24	Turbidity	2.41	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-34V	3/30/2021 13:29	Conductivity	1063.15	uS/cm
GN-AP-MW-34V	3/30/2021 13:29	DO	0.24	mg/L
GN-AP-MW-34V	3/30/2021 13:29	Depth to Water Detail	45.57	ft
GN-AP-MW-34V	3/30/2021 13:29	Oxidation Reduction Potention	-336.78	mv
GN-AP-MW-34V	3/30/2021 13:29	pH	7.84	SU
GN-AP-MW-34V	3/30/2021 13:29	Temperature	19.92	C
GN-AP-MW-34V	3/30/2021 13:29	Turbidity	4.9	NTU
GN-AP-MW-34V	3/30/2021 13:34	Conductivity	1111.82	uS/cm
GN-AP-MW-34V	3/30/2021 13:34	DO	0.2	mg/L
GN-AP-MW-34V	3/30/2021 13:34	Depth to Water Detail	47.43	ft
GN-AP-MW-34V	3/30/2021 13:34	Oxidation Reduction Potention	-289.44	mv
GN-AP-MW-34V	3/30/2021 13:34	pH	7.95	SU
GN-AP-MW-34V	3/30/2021 13:34	Temperature	20	C
GN-AP-MW-34V	3/30/2021 13:34	Turbidity	4.72	NTU
GN-AP-MW-34V	3/30/2021 13:39	Conductivity	1107	uS/cm
GN-AP-MW-34V	3/30/2021 13:39	DO	0.2	mg/L
GN-AP-MW-34V	3/30/2021 13:39	Depth to Water Detail	49.46	ft
GN-AP-MW-34V	3/30/2021 13:39	Oxidation Reduction Potention	-274.98	mv
GN-AP-MW-34V	3/30/2021 13:39	pH	7.95	SU
GN-AP-MW-34V	3/30/2021 13:39	Temperature	19.93	C
GN-AP-MW-34V	3/30/2021 13:39	Turbidity	7.01	NTU
GN-AP-MW-34V	3/30/2021 13:44	Conductivity	1102.83	uS/cm
GN-AP-MW-34V	3/30/2021 13:44	DO	0.44	mg/L
GN-AP-MW-34V	3/30/2021 13:44	Depth to Water Detail	49.7	ft
GN-AP-MW-34V	3/30/2021 13:44	Oxidation Reduction Potention	-271.33	mv
GN-AP-MW-34V	3/30/2021 13:44	pH	7.96	SU
GN-AP-MW-34V	3/30/2021 13:44	Temperature	20.54	C
GN-AP-MW-34V	3/30/2021 13:44	Turbidity	7.68	NTU
GN-AP-MW-34V	3/30/2021 13:49	Conductivity	1086.45	uS/cm
GN-AP-MW-34V	3/30/2021 13:49	DO	0.51	mg/L
GN-AP-MW-34V	3/30/2021 13:49	Depth to Water Detail	49.85	ft
GN-AP-MW-34V	3/30/2021 13:49	Oxidation Reduction Potention	-281.79	mv
GN-AP-MW-34V	3/30/2021 13:49	pH	7.95	SU
GN-AP-MW-34V	3/30/2021 13:49	Temperature	20.54	C
GN-AP-MW-34V	3/30/2021 13:49	Turbidity	0.46	NTU
GN-AP-MW-34V	3/30/2021 13:54	Conductivity	1061.19	uS/cm
GN-AP-MW-34V	3/30/2021 13:54	DO	0.53	mg/L
GN-AP-MW-34V	3/30/2021 13:54	Depth to Water Detail	49.98	ft
GN-AP-MW-34V	3/30/2021 13:54	Oxidation Reduction Potention	-291.62	mv
GN-AP-MW-34V	3/30/2021 13:54	pH	7.91	SU
GN-AP-MW-34V	3/30/2021 13:54	Temperature	20.68	C
GN-AP-MW-34V	3/30/2021 13:54	Turbidity	0.52	NTU
GN-AP-MW-34V	3/30/2021 13:59	Conductivity	1043.27	uS/cm
GN-AP-MW-34V	3/30/2021 13:59	DO	0.51	mg/L

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-34V	3/30/2021 13:59	Depth to Water Detail	50.08	ft
GN-AP-MW-34V	3/30/2021 13:59	Oxidation Reduction Potention	-297.25	mv
GN-AP-MW-34V	3/30/2021 13:59	pH	7.88	SU
GN-AP-MW-34V	3/30/2021 13:59	Temperature	20.96	C
GN-AP-MW-34V	3/30/2021 13:59	Turbidity	0.68	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-35V	3/30/2021 14:48	Conductivity	426.38	uS/cm
GN-AP-MW-35V	3/30/2021 14:48	DO	1.49	mg/L
GN-AP-MW-35V	3/30/2021 14:48	Depth to Water Detail	45.51	ft
GN-AP-MW-35V	3/30/2021 14:48	Oxidation Reduction Potention	-254.13	mv
GN-AP-MW-35V	3/30/2021 14:48	pH	7.74	SU
GN-AP-MW-35V	3/30/2021 14:48	Temperature	21.77	C
GN-AP-MW-35V	3/30/2021 14:48	Turbidity	1.03	NTU
GN-AP-MW-35V	3/30/2021 14:53	Conductivity	426.66	uS/cm
GN-AP-MW-35V	3/30/2021 14:53	DO	0.85	mg/L
GN-AP-MW-35V	3/30/2021 14:53	Depth to Water Detail	45.69	ft
GN-AP-MW-35V	3/30/2021 14:53	Oxidation Reduction Potention	-260.03	mv
GN-AP-MW-35V	3/30/2021 14:53	pH	7.66	SU
GN-AP-MW-35V	3/30/2021 14:53	Temperature	21.47	C
GN-AP-MW-35V	3/30/2021 14:53	Turbidity	0.97	NTU
GN-AP-MW-35V	3/30/2021 14:58	Conductivity	424.88	uS/cm
GN-AP-MW-35V	3/30/2021 14:58	DO	0.6	mg/L
GN-AP-MW-35V	3/30/2021 14:58	Depth to Water Detail	45.88	ft
GN-AP-MW-35V	3/30/2021 14:58	Oxidation Reduction Potention	-269.3	mv
GN-AP-MW-35V	3/30/2021 14:58	pH	7.65	SU
GN-AP-MW-35V	3/30/2021 14:58	Temperature	21.34	C
GN-AP-MW-35V	3/30/2021 14:58	Turbidity	1.06	NTU
GN-AP-MW-35V	3/30/2021 15:03	Conductivity	425.22	uS/cm
GN-AP-MW-35V	3/30/2021 15:03	DO	0.53	mg/L
GN-AP-MW-35V	3/30/2021 15:03	Depth to Water Detail	46.11	ft
GN-AP-MW-35V	3/30/2021 15:03	Oxidation Reduction Potention	-274.48	mv
GN-AP-MW-35V	3/30/2021 15:03	pH	7.67	SU
GN-AP-MW-35V	3/30/2021 15:03	Temperature	21.21	C
GN-AP-MW-35V	3/30/2021 15:03	Turbidity	0.97	NTU
GN-AP-MW-35V	3/30/2021 15:08	Conductivity	429.41	uS/cm
GN-AP-MW-35V	3/30/2021 15:08	DO	0.51	mg/L
GN-AP-MW-35V	3/30/2021 15:08	Depth to Water Detail	46.32	ft
GN-AP-MW-35V	3/30/2021 15:08	Oxidation Reduction Potention	-273.8	mv
GN-AP-MW-35V	3/30/2021 15:08	pH	7.71	SU
GN-AP-MW-35V	3/30/2021 15:08	Temperature	21.3	C
GN-AP-MW-35V	3/30/2021 15:08	Turbidity	0.76	NTU
GN-AP-MW-35V	3/30/2021 15:13	Conductivity	435.03	uS/cm
GN-AP-MW-35V	3/30/2021 15:13	DO	0.54	mg/L
GN-AP-MW-35V	3/30/2021 15:13	Depth to Water Detail	46.52	ft
GN-AP-MW-35V	3/30/2021 15:13	Oxidation Reduction Potention	-263.57	mv
GN-AP-MW-35V	3/30/2021 15:13	pH	7.77	SU
GN-AP-MW-35V	3/30/2021 15:13	Temperature	21.2	C
GN-AP-MW-35V	3/30/2021 15:13	Turbidity	0.77	NTU
GN-AP-MW-35V	3/30/2021 15:18	Conductivity	438.54	uS/cm
GN-AP-MW-35V	3/30/2021 15:18	DO	0.6	mg/L

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-35V	3/30/2021 15:18	Depth to Water Detail	46.74	ft
GN-AP-MW-35V	3/30/2021 15:18	Oxidation Reduction Potention	-250.23	mv
GN-AP-MW-35V	3/30/2021 15:18	pH	7.82	SU
GN-AP-MW-35V	3/30/2021 15:18	Temperature	21.21	C
GN-AP-MW-35V	3/30/2021 15:18	Turbidity	0.81	NTU
GN-AP-MW-35V	3/30/2021 15:23	Conductivity	440.66	uS/cm
GN-AP-MW-35V	3/30/2021 15:23	DO	0.67	mg/L
GN-AP-MW-35V	3/30/2021 15:23	Depth to Water Detail	46.91	ft
GN-AP-MW-35V	3/30/2021 15:23	Oxidation Reduction Potention	-240	mv
GN-AP-MW-35V	3/30/2021 15:23	pH	7.85	SU
GN-AP-MW-35V	3/30/2021 15:23	Temperature	21.19	C
GN-AP-MW-35V	3/30/2021 15:23	Turbidity	1.18	NTU
GN-AP-MW-35V	3/30/2021 15:28	Conductivity	439.96	uS/cm
GN-AP-MW-35V	3/30/2021 15:28	DO	0.73	mg/L
GN-AP-MW-35V	3/30/2021 15:28	Depth to Water Detail	47.14	ft
GN-AP-MW-35V	3/30/2021 15:28	Oxidation Reduction Potention	-234.29	mv
GN-AP-MW-35V	3/30/2021 15:28	pH	7.88	SU
GN-AP-MW-35V	3/30/2021 15:28	Temperature	21.42	C
GN-AP-MW-35V	3/30/2021 15:28	Turbidity	1.08	NTU
GN-AP-MW-35V	3/30/2021 15:33	Conductivity	439.44	uS/cm
GN-AP-MW-35V	3/30/2021 15:33	DO	0.79	mg/L
GN-AP-MW-35V	3/30/2021 15:33	Depth to Water Detail	47.33	ft
GN-AP-MW-35V	3/30/2021 15:33	Oxidation Reduction Potention	-230.62	mv
GN-AP-MW-35V	3/30/2021 15:33	pH	7.89	SU
GN-AP-MW-35V	3/30/2021 15:33	Temperature	21.68	C
GN-AP-MW-35V	3/30/2021 15:33	Turbidity	0.87	NTU
GN-AP-MW-35V	3/30/2021 15:38	Conductivity	436.38	uS/cm
GN-AP-MW-35V	3/30/2021 15:38	DO	0.83	mg/L
GN-AP-MW-35V	3/30/2021 15:38	Depth to Water Detail	47.5	ft
GN-AP-MW-35V	3/30/2021 15:38	Oxidation Reduction Potention	-228.18	mv
GN-AP-MW-35V	3/30/2021 15:38	pH	7.9	SU
GN-AP-MW-35V	3/30/2021 15:38	Temperature	21.57	C
GN-AP-MW-35V	3/30/2021 15:38	Turbidity	1.13	NTU
GN-AP-MW-35V	3/30/2021 15:43	Conductivity	435.77	uS/cm
GN-AP-MW-35V	3/30/2021 15:43	DO	0.88	mg/L
GN-AP-MW-35V	3/30/2021 15:43	Depth to Water Detail	47.66	ft
GN-AP-MW-35V	3/30/2021 15:43	Oxidation Reduction Potention	-226.17	mv
GN-AP-MW-35V	3/30/2021 15:43	pH	7.9	SU
GN-AP-MW-35V	3/30/2021 15:43	Temperature	21.64	C
GN-AP-MW-35V	3/30/2021 15:43	Turbidity	1.49	NTU
GN-AP-MW-35V	3/30/2021 15:48	Conductivity	433.14	uS/cm
GN-AP-MW-35V	3/30/2021 15:48	DO	0.91	mg/L
GN-AP-MW-35V	3/30/2021 15:48	Depth to Water Detail	47.79	ft
GN-AP-MW-35V	3/30/2021 15:48	Oxidation Reduction Potention	-224.61	mv

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-35V	3/30/2021 15:48	pH	7.91	SU
GN-AP-MW-35V	3/30/2021 15:48	Temperature	21.59	C
GN-AP-MW-35V	3/30/2021 15:48	Turbidity	2.09	NTU

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Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-36V	3/30/2021 10:07	Conductivity	1516.98	uS/cm
GN-AP-MW-36V	3/30/2021 10:07	DO	0.14	mg/L
GN-AP-MW-36V	3/30/2021 10:07	Depth to Water Detail	44.81	ft
GN-AP-MW-36V	3/30/2021 10:07	Oxidation Reduction Potention	-346.14	mv
GN-AP-MW-36V	3/30/2021 10:07	pH	8.22	SU
GN-AP-MW-36V	3/30/2021 10:07	Temperature	20.64	C
GN-AP-MW-36V	3/30/2021 10:07	Turbidity	2.92	NTU
GN-AP-MW-36V	3/30/2021 10:12	Conductivity	1455.08	uS/cm
GN-AP-MW-36V	3/30/2021 10:12	DO	0.16	mg/L
GN-AP-MW-36V	3/30/2021 10:12	Depth to Water Detail	45.62	ft
GN-AP-MW-36V	3/30/2021 10:12	Oxidation Reduction Potention	-323.57	mv
GN-AP-MW-36V	3/30/2021 10:12	pH	8.08	SU
GN-AP-MW-36V	3/30/2021 10:12	Temperature	20.66	C
GN-AP-MW-36V	3/30/2021 10:12	Turbidity	2.24	NTU
GN-AP-MW-36V	3/30/2021 10:17	Conductivity	1443.04	uS/cm
GN-AP-MW-36V	3/30/2021 10:17	DO	0.18	mg/L
GN-AP-MW-36V	3/30/2021 10:17	Depth to Water Detail	46.46	ft
GN-AP-MW-36V	3/30/2021 10:17	Oxidation Reduction Potention	-320.78	mv
GN-AP-MW-36V	3/30/2021 10:17	pH	8.08	SU
GN-AP-MW-36V	3/30/2021 10:17	Temperature	20.65	C
GN-AP-MW-36V	3/30/2021 10:17	Turbidity	1.89	NTU
GN-AP-MW-36V	3/30/2021 10:22	Conductivity	1447.12	uS/cm
GN-AP-MW-36V	3/30/2021 10:22	DO	0.2	mg/L
GN-AP-MW-36V	3/30/2021 10:22	Depth to Water Detail	47.32	ft
GN-AP-MW-36V	3/30/2021 10:22	Oxidation Reduction Potention	-320.53	mv
GN-AP-MW-36V	3/30/2021 10:22	pH	8.09	SU
GN-AP-MW-36V	3/30/2021 10:22	Temperature	20.68	C
GN-AP-MW-36V	3/30/2021 10:22	Turbidity	2.67	NTU
GN-AP-MW-36V	3/30/2021 10:27	Conductivity	1445.03	uS/cm
GN-AP-MW-36V	3/30/2021 10:27	DO	0.23	mg/L
GN-AP-MW-36V	3/30/2021 10:27	Depth to Water Detail	47.92	ft
GN-AP-MW-36V	3/30/2021 10:27	Oxidation Reduction Potention	-321.91	mv
GN-AP-MW-36V	3/30/2021 10:27	pH	8.1	SU
GN-AP-MW-36V	3/30/2021 10:27	Temperature	20.67	C
GN-AP-MW-36V	3/30/2021 10:27	Turbidity	0.76	NTU
GN-AP-MW-36V	3/30/2021 10:32	Conductivity	1444.14	uS/cm
GN-AP-MW-36V	3/30/2021 10:32	DO	0.43	mg/L
GN-AP-MW-36V	3/30/2021 10:32	Depth to Water Detail	48.12	ft
GN-AP-MW-36V	3/30/2021 10:32	Oxidation Reduction Potention	-317.84	mv
GN-AP-MW-36V	3/30/2021 10:32	pH	8.1	SU
GN-AP-MW-36V	3/30/2021 10:32	Temperature	20.92	C
GN-AP-MW-36V	3/30/2021 10:32	Turbidity	0.36	NTU
GN-AP-MW-36V	3/30/2021 10:37	Conductivity	1442.62	uS/cm
GN-AP-MW-36V	3/30/2021 10:37	DO	0.48	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-36V	3/30/2021 10:37	Depth to Water Detail	48.3	ft
GN-AP-MW-36V	3/30/2021 10:37	Oxidation Reduction Potention	-316.59	mv
GN-AP-MW-36V	3/30/2021 10:37	pH	8.11	SU
GN-AP-MW-36V	3/30/2021 10:37	Temperature	20.98	C
GN-AP-MW-36V	3/30/2021 10:37	Turbidity	0.7	NTU
GN-AP-MW-36V	3/30/2021 10:42	Conductivity	1437.42	uS/cm
GN-AP-MW-36V	3/30/2021 10:42	DO	0.58	mg/L
GN-AP-MW-36V	3/30/2021 10:42	Depth to Water Detail	48.48	ft
GN-AP-MW-36V	3/30/2021 10:42	Oxidation Reduction Potention	-315.01	mv
GN-AP-MW-36V	3/30/2021 10:42	pH	8.1	SU
GN-AP-MW-36V	3/30/2021 10:42	Temperature	21.06	C
GN-AP-MW-36V	3/30/2021 10:42	Turbidity	0.78	NTU
GN-AP-MW-36V	3/30/2021 10:47	Conductivity	1439.28	uS/cm
GN-AP-MW-36V	3/30/2021 10:47	DO	0.65	mg/L
GN-AP-MW-36V	3/30/2021 10:47	Depth to Water Detail	48.66	ft
GN-AP-MW-36V	3/30/2021 10:47	Oxidation Reduction Potention	-314.61	mv
GN-AP-MW-36V	3/30/2021 10:47	pH	8.11	SU
GN-AP-MW-36V	3/30/2021 10:47	Temperature	21	C
GN-AP-MW-36V	3/30/2021 10:47	Turbidity	0.9	NTU
GN-AP-MW-36V	3/30/2021 10:52	Conductivity	1439.82	uS/cm
GN-AP-MW-36V	3/30/2021 10:52	DO	0.69	mg/L
GN-AP-MW-36V	3/30/2021 10:52	Depth to Water Detail	48.81	ft
GN-AP-MW-36V	3/30/2021 10:52	Oxidation Reduction Potention	-314.49	mv
GN-AP-MW-36V	3/30/2021 10:52	pH	8.11	SU
GN-AP-MW-36V	3/30/2021 10:52	Temperature	21	C
GN-AP-MW-36V	3/30/2021 10:52	Turbidity	1.08	NTU
GN-AP-MW-36V	3/30/2021 10:57	Conductivity	1433.95	uS/cm
GN-AP-MW-36V	3/30/2021 10:57	DO	0.71	mg/L
GN-AP-MW-36V	3/30/2021 10:57	Depth to Water Detail	48.9	ft
GN-AP-MW-36V	3/30/2021 10:57	Oxidation Reduction Potention	-314.73	mv
GN-AP-MW-36V	3/30/2021 10:57	pH	8.11	SU
GN-AP-MW-36V	3/30/2021 10:57	Temperature	21.09	C
GN-AP-MW-36V	3/30/2021 10:57	Turbidity	1.13	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-37V	3/30/2021 8:51	Conductivity	402.92	uS/cm
GN-AP-MW-37V	3/30/2021 8:51	DO	0.73	mg/L
GN-AP-MW-37V	3/30/2021 8:51	Depth to Water Detail	43.57	ft
GN-AP-MW-37V	3/30/2021 8:51	Oxidation Reduction Potention	-236.6	mv
GN-AP-MW-37V	3/30/2021 8:51	pH	7.82	SU
GN-AP-MW-37V	3/30/2021 8:51	Temperature	20.66	C
GN-AP-MW-37V	3/30/2021 8:51	Turbidity	1.67	NTU
GN-AP-MW-37V	3/30/2021 8:56	Conductivity	402.19	uS/cm
GN-AP-MW-37V	3/30/2021 8:56	DO	0.4	mg/L
GN-AP-MW-37V	3/30/2021 8:56	Depth to Water Detail	43.86	ft
GN-AP-MW-37V	3/30/2021 8:56	Oxidation Reduction Potention	-265.37	mv
GN-AP-MW-37V	3/30/2021 8:56	pH	8	SU
GN-AP-MW-37V	3/30/2021 8:56	Temperature	20.65	C
GN-AP-MW-37V	3/30/2021 8:56	Turbidity	2.27	NTU
GN-AP-MW-37V	3/30/2021 9:01	Conductivity	404.12	uS/cm
GN-AP-MW-37V	3/30/2021 9:01	DO	0.33	mg/L
GN-AP-MW-37V	3/30/2021 9:01	Depth to Water Detail	44.08	ft
GN-AP-MW-37V	3/30/2021 9:01	Oxidation Reduction Potention	-261.71	mv
GN-AP-MW-37V	3/30/2021 9:01	pH	8.06	SU
GN-AP-MW-37V	3/30/2021 9:01	Temperature	20.79	C
GN-AP-MW-37V	3/30/2021 9:01	Turbidity	2.31	NTU
GN-AP-MW-37V	3/30/2021 9:06	Conductivity	405.59	uS/cm
GN-AP-MW-37V	3/30/2021 9:06	DO	0.34	mg/L
GN-AP-MW-37V	3/30/2021 9:06	Depth to Water Detail	44.28	ft
GN-AP-MW-37V	3/30/2021 9:06	Oxidation Reduction Potention	-250.95	mv
GN-AP-MW-37V	3/30/2021 9:06	pH	8.05	SU
GN-AP-MW-37V	3/30/2021 9:06	Temperature	20.96	C
GN-AP-MW-37V	3/30/2021 9:06	Turbidity	2.73	NTU
GN-AP-MW-37V	3/30/2021 9:11	Conductivity	405.79	uS/cm
GN-AP-MW-37V	3/30/2021 9:11	DO	0.36	mg/L
GN-AP-MW-37V	3/30/2021 9:11	Depth to Water Detail	44.46	ft
GN-AP-MW-37V	3/30/2021 9:11	Oxidation Reduction Potention	-239.49	mv
GN-AP-MW-37V	3/30/2021 9:11	pH	8.04	SU
GN-AP-MW-37V	3/30/2021 9:11	Temperature	21.06	C
GN-AP-MW-37V	3/30/2021 9:11	Turbidity	3.04	NTU
GN-AP-MW-37V	3/30/2021 9:16	Conductivity	405.87	uS/cm
GN-AP-MW-37V	3/30/2021 9:16	DO	0.38	mg/L
GN-AP-MW-37V	3/30/2021 9:16	Depth to Water Detail	44.61	ft
GN-AP-MW-37V	3/30/2021 9:16	Oxidation Reduction Potention	-234.46	mv
GN-AP-MW-37V	3/30/2021 9:16	pH	8.04	SU
GN-AP-MW-37V	3/30/2021 9:16	Temperature	21.11	C
GN-AP-MW-37V	3/30/2021 9:16	Turbidity	3.18	NTU
GN-AP-MW-37V	3/30/2021 9:21	Conductivity	406.08	uS/cm
GN-AP-MW-37V	3/30/2021 9:21	DO	0.39	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-37V	3/30/2021 9:21	Depth to Water Detail	44.73	ft
GN-AP-MW-37V	3/30/2021 9:21	Oxidation Reduction Potention	-232.28	mv
GN-AP-MW-37V	3/30/2021 9:21	pH	8.04	SU
GN-AP-MW-37V	3/30/2021 9:21	Temperature	21.33	C
GN-AP-MW-37V	3/30/2021 9:21	Turbidity	3.31	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-16	4/5/2021 13:12	Conductivity	485.02	uS/cm
GN-AP-MW-16	4/5/2021 13:12	DO	0.17	mg/L
GN-AP-MW-16	4/5/2021 13:12	Depth to Water Detail	21.09	ft
GN-AP-MW-16	4/5/2021 13:12	Oxidation Reduction Potention	115.65	mv
GN-AP-MW-16	4/5/2021 13:12	pH	7.73	SU
GN-AP-MW-16	4/5/2021 13:12	Temperature	21.74	C
GN-AP-MW-16	4/5/2021 13:12	Turbidity	2.27	NTU
GN-AP-MW-16	4/5/2021 13:17	Conductivity	486.91	uS/cm
GN-AP-MW-16	4/5/2021 13:17	DO	0.13	mg/L
GN-AP-MW-16	4/5/2021 13:17	Depth to Water Detail	21.09	ft
GN-AP-MW-16	4/5/2021 13:17	Oxidation Reduction Potention	112.5	mv
GN-AP-MW-16	4/5/2021 13:17	pH	7.71	SU
GN-AP-MW-16	4/5/2021 13:17	Temperature	21.76	C
GN-AP-MW-16	4/5/2021 13:17	Turbidity	1.64	NTU
GN-AP-MW-16	4/5/2021 13:22	Conductivity	489.9	uS/cm
GN-AP-MW-16	4/5/2021 13:22	DO	0.13	mg/L
GN-AP-MW-16	4/5/2021 13:22	Depth to Water Detail	21.09	ft
GN-AP-MW-16	4/5/2021 13:22	Oxidation Reduction Potention	106.22	mv
GN-AP-MW-16	4/5/2021 13:22	pH	7.72	SU
GN-AP-MW-16	4/5/2021 13:22	Temperature	21.63	C
GN-AP-MW-16	4/5/2021 13:22	Turbidity	1.6	NTU
GN-AP-MW-16	4/5/2021 13:27	Conductivity	490.95	uS/cm
GN-AP-MW-16	4/5/2021 13:27	DO	0.12	mg/L
GN-AP-MW-16	4/5/2021 13:27	Depth to Water Detail	21.09	ft
GN-AP-MW-16	4/5/2021 13:27	Oxidation Reduction Potention	102.86	mv
GN-AP-MW-16	4/5/2021 13:27	pH	7.76	SU
GN-AP-MW-16	4/5/2021 13:27	Temperature	21.56	C
GN-AP-MW-16	4/5/2021 13:27	Turbidity	1.22	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-16V	4/5/2021 11:40	Conductivity	451.5	uS/cm
GN-AP-MW-16V	4/5/2021 11:40	DO	0.32	mg/L
GN-AP-MW-16V	4/5/2021 11:40	Depth to Water Detail	17.7	ft
GN-AP-MW-16V	4/5/2021 11:40	Oxidation Reduction Potention	135.08	mv
GN-AP-MW-16V	4/5/2021 11:40	pH	8.19	SU
GN-AP-MW-16V	4/5/2021 11:40	Temperature	19.77	C
GN-AP-MW-16V	4/5/2021 11:40	Turbidity	4.13	NTU
GN-AP-MW-16V	4/5/2021 11:45	Conductivity	451.43	uS/cm
GN-AP-MW-16V	4/5/2021 11:45	DO	0.28	mg/L
GN-AP-MW-16V	4/5/2021 11:45	Depth to Water Detail	17.9	ft
GN-AP-MW-16V	4/5/2021 11:45	Oxidation Reduction Potention	127.09	mv
GN-AP-MW-16V	4/5/2021 11:45	pH	8.48	SU
GN-AP-MW-16V	4/5/2021 11:45	Temperature	19.86	C
GN-AP-MW-16V	4/5/2021 11:45	Turbidity	3.68	NTU
GN-AP-MW-16V	4/5/2021 11:50	Conductivity	452.11	uS/cm
GN-AP-MW-16V	4/5/2021 11:50	DO	0.22	mg/L
GN-AP-MW-16V	4/5/2021 11:50	Depth to Water Detail	17.96	ft
GN-AP-MW-16V	4/5/2021 11:50	Oxidation Reduction Potention	123.59	mv
GN-AP-MW-16V	4/5/2021 11:50	pH	8.52	SU
GN-AP-MW-16V	4/5/2021 11:50	Temperature	20.07	C
GN-AP-MW-16V	4/5/2021 11:50	Turbidity	2.93	NTU
GN-AP-MW-16V	4/5/2021 11:55	Conductivity	447.96	uS/cm
GN-AP-MW-16V	4/5/2021 11:55	DO	0.21	mg/L
GN-AP-MW-16V	4/5/2021 11:55	Depth to Water Detail	18.06	ft
GN-AP-MW-16V	4/5/2021 11:55	Oxidation Reduction Potention	118.55	mv
GN-AP-MW-16V	4/5/2021 11:55	pH	8.54	SU
GN-AP-MW-16V	4/5/2021 11:55	Temperature	20.38	C
GN-AP-MW-16V	4/5/2021 11:55	Turbidity	2.43	NTU
GN-AP-MW-16V	4/5/2021 12:00	Conductivity	449.19	uS/cm
GN-AP-MW-16V	4/5/2021 12:00	DO	0.23	mg/L
GN-AP-MW-16V	4/5/2021 12:00	Depth to Water Detail	18.1	ft
GN-AP-MW-16V	4/5/2021 12:00	Oxidation Reduction Potention	116.79	mv
GN-AP-MW-16V	4/5/2021 12:00	pH	8.54	SU
GN-AP-MW-16V	4/5/2021 12:00	Temperature	20.56	C
GN-AP-MW-16V	4/5/2021 12:00	Turbidity	2.13	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17	4/6/2021 14:16	Conductivity	800.04	uS/cm
GN-AP-MW-17	4/6/2021 14:16	DO	2.01	mg/L
GN-AP-MW-17	4/6/2021 14:16	Depth to Water Detail	6.65	ft
GN-AP-MW-17	4/6/2021 14:16	Oxidation Reduction Potention	51.96	mv
GN-AP-MW-17	4/6/2021 14:16	pH	9.22	SU
GN-AP-MW-17	4/6/2021 14:16	Temperature	20.87	C
GN-AP-MW-17	4/6/2021 14:16	Turbidity	0.98	NTU
GN-AP-MW-17	4/6/2021 14:21	Conductivity	799.76	uS/cm
GN-AP-MW-17	4/6/2021 14:21	DO	2.24	mg/L
GN-AP-MW-17	4/6/2021 14:21	Depth to Water Detail	6.62	ft
GN-AP-MW-17	4/6/2021 14:21	Oxidation Reduction Potention	48.13	mv
GN-AP-MW-17	4/6/2021 14:21	pH	9.19	SU
GN-AP-MW-17	4/6/2021 14:21	Temperature	20.89	C
GN-AP-MW-17	4/6/2021 14:21	Turbidity	1	NTU
GN-AP-MW-17	4/6/2021 14:26	Conductivity	796.46	uS/cm
GN-AP-MW-17	4/6/2021 14:26	DO	2.85	mg/L
GN-AP-MW-17	4/6/2021 14:26	Depth to Water Detail	6.55	ft
GN-AP-MW-17	4/6/2021 14:26	Oxidation Reduction Potention	47.69	mv
GN-AP-MW-17	4/6/2021 14:26	pH	9.07	SU
GN-AP-MW-17	4/6/2021 14:26	Temperature	20.97	C
GN-AP-MW-17	4/6/2021 14:26	Turbidity	1.1	NTU
GN-AP-MW-17	4/6/2021 14:31	Conductivity	1001.49	uS/cm
GN-AP-MW-17	4/6/2021 14:31	DO	0.58	mg/L
GN-AP-MW-17	4/6/2021 14:31	Depth to Water Detail	6.55	ft
GN-AP-MW-17	4/6/2021 14:31	Oxidation Reduction Potention	44.48	mv
GN-AP-MW-17	4/6/2021 14:31	pH	9.55	SU
GN-AP-MW-17	4/6/2021 14:31	Temperature	20.99	C
GN-AP-MW-17	4/6/2021 14:31	Turbidity	0.96	NTU
GN-AP-MW-17	4/6/2021 14:36	Conductivity	1002.6	uS/cm
GN-AP-MW-17	4/6/2021 14:36	DO	0.33	mg/L
GN-AP-MW-17	4/6/2021 14:36	Depth to Water Detail	6.55	ft
GN-AP-MW-17	4/6/2021 14:36	Oxidation Reduction Potention	35.38	mv
GN-AP-MW-17	4/6/2021 14:36	pH	9.58	SU
GN-AP-MW-17	4/6/2021 14:36	Temperature	20.97	C
GN-AP-MW-17	4/6/2021 14:36	Turbidity	1.12	NTU
GN-AP-MW-17	4/6/2021 14:41	Conductivity	1008.15	uS/cm
GN-AP-MW-17	4/6/2021 14:41	DO	0.27	mg/L
GN-AP-MW-17	4/6/2021 14:41	Depth to Water Detail	6.55	ft
GN-AP-MW-17	4/6/2021 14:41	Oxidation Reduction Potention	29.65	mv
GN-AP-MW-17	4/6/2021 14:41	pH	9.59	SU
GN-AP-MW-17	4/6/2021 14:41	Temperature	21	C
GN-AP-MW-17	4/6/2021 14:41	Turbidity	1.37	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17SV	4/6/2021 12:42	Conductivity	795.19	uS/cm
GN-AP-MW-17SV	4/6/2021 12:42	DO	0.04	mg/L
GN-AP-MW-17SV	4/6/2021 12:42	Depth to Water Detail	9.08	ft
GN-AP-MW-17SV	4/6/2021 12:42	Oxidation Reduction Potention	59.56	mv
GN-AP-MW-17SV	4/6/2021 12:42	pH	8.13	SU
GN-AP-MW-17SV	4/6/2021 12:42	Temperature	20.42	C
GN-AP-MW-17SV	4/6/2021 12:42	Turbidity	2.88	NTU
GN-AP-MW-17SV	4/6/2021 12:47	Conductivity	780.65	uS/cm
GN-AP-MW-17SV	4/6/2021 12:47	DO	0.03	mg/L
GN-AP-MW-17SV	4/6/2021 12:47	Depth to Water Detail	9.08	ft
GN-AP-MW-17SV	4/6/2021 12:47	Oxidation Reduction Potention	-19.41	mv
GN-AP-MW-17SV	4/6/2021 12:47	pH	7.89	SU
GN-AP-MW-17SV	4/6/2021 12:47	Temperature	20.24	C
GN-AP-MW-17SV	4/6/2021 12:47	Turbidity	1.62	NTU
GN-AP-MW-17SV	4/6/2021 12:52	Conductivity	778.05	uS/cm
GN-AP-MW-17SV	4/6/2021 12:52	DO	0.03	mg/L
GN-AP-MW-17SV	4/6/2021 12:52	Depth to Water Detail	9.08	ft
GN-AP-MW-17SV	4/6/2021 12:52	Oxidation Reduction Potention	-52.78	mv
GN-AP-MW-17SV	4/6/2021 12:52	pH	7.75	SU
GN-AP-MW-17SV	4/6/2021 12:52	Temperature	20.21	C
GN-AP-MW-17SV	4/6/2021 12:52	Turbidity	1.49	NTU
GN-AP-MW-17SV	4/6/2021 12:57	Conductivity	776.29	uS/cm
GN-AP-MW-17SV	4/6/2021 12:57	DO	0.02	mg/L
GN-AP-MW-17SV	4/6/2021 12:57	Depth to Water Detail	9.08	ft
GN-AP-MW-17SV	4/6/2021 12:57	Oxidation Reduction Potention	-69.24	mv
GN-AP-MW-17SV	4/6/2021 12:57	pH	7.66	SU
GN-AP-MW-17SV	4/6/2021 12:57	Temperature	20.31	C
GN-AP-MW-17SV	4/6/2021 12:57	Turbidity	1.15	NTU
GN-AP-MW-17SV	4/6/2021 13:02	Conductivity	773.78	uS/cm
GN-AP-MW-17SV	4/6/2021 13:02	DO	0.02	mg/L
GN-AP-MW-17SV	4/6/2021 13:02	Depth to Water Detail	9.08	ft
GN-AP-MW-17SV	4/6/2021 13:02	Oxidation Reduction Potention	-73.98	mv
GN-AP-MW-17SV	4/6/2021 13:02	pH	7.56	SU
GN-AP-MW-17SV	4/6/2021 13:02	Temperature	20.34	C
GN-AP-MW-17SV	4/6/2021 13:02	Turbidity	1.01	NTU

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Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17V	4/6/2021 9:27	Conductivity	711.68	uS/cm
GN-AP-MW-17V	4/6/2021 9:27	DO	0.15	mg/L
GN-AP-MW-17V	4/6/2021 9:27	Depth to Water Detail	9.02	ft
GN-AP-MW-17V	4/6/2021 9:27	Oxidation Reduction Potention	90.02	mv
GN-AP-MW-17V	4/6/2021 9:27	pH	8.58	SU
GN-AP-MW-17V	4/6/2021 9:27	Temperature	20.19	C
GN-AP-MW-17V	4/6/2021 9:27	Turbidity	1.41	NTU
GN-AP-MW-17V	4/6/2021 9:32	Conductivity	709.07	uS/cm
GN-AP-MW-17V	4/6/2021 9:32	DO	0.15	mg/L
GN-AP-MW-17V	4/6/2021 9:32	Depth to Water Detail	12.35	ft
GN-AP-MW-17V	4/6/2021 9:32	Oxidation Reduction Potention	79.68	mv
GN-AP-MW-17V	4/6/2021 9:32	pH	8.56	SU
GN-AP-MW-17V	4/6/2021 9:32	Temperature	20.32	C
GN-AP-MW-17V	4/6/2021 9:32	Turbidity	1.3	NTU
GN-AP-MW-17V	4/6/2021 9:37	Conductivity	698.68	uS/cm
GN-AP-MW-17V	4/6/2021 9:37	DO	0.16	mg/L
GN-AP-MW-17V	4/6/2021 9:37	Depth to Water Detail	15.6	ft
GN-AP-MW-17V	4/6/2021 9:37	Oxidation Reduction Potention	76.47	mv
GN-AP-MW-17V	4/6/2021 9:37	pH	8.44	SU
GN-AP-MW-17V	4/6/2021 9:37	Temperature	20.42	C
GN-AP-MW-17V	4/6/2021 9:37	Turbidity	1.33	NTU
GN-AP-MW-17V	4/6/2021 9:42	Conductivity	693.83	uS/cm
GN-AP-MW-17V	4/6/2021 9:42	DO	0.41	mg/L
GN-AP-MW-17V	4/6/2021 9:42	Depth to Water Detail	15.96	ft
GN-AP-MW-17V	4/6/2021 9:42	Oxidation Reduction Potention	81.95	mv
GN-AP-MW-17V	4/6/2021 9:42	pH	8.4	SU
GN-AP-MW-17V	4/6/2021 9:42	Temperature	19.92	C
GN-AP-MW-17V	4/6/2021 9:42	Turbidity	1.37	NTU
GN-AP-MW-17V	4/6/2021 9:47	Conductivity	694.31	uS/cm
GN-AP-MW-17V	4/6/2021 9:47	DO	0.54	mg/L
GN-AP-MW-17V	4/6/2021 9:47	Depth to Water Detail	16.18	ft
GN-AP-MW-17V	4/6/2021 9:47	Oxidation Reduction Potention	84.07	mv
GN-AP-MW-17V	4/6/2021 9:47	pH	8.38	SU
GN-AP-MW-17V	4/6/2021 9:47	Temperature	19.92	C
GN-AP-MW-17V	4/6/2021 9:47	Turbidity	1.51	NTU
GN-AP-MW-17V	4/6/2021 9:52	Conductivity	695.71	uS/cm
GN-AP-MW-17V	4/6/2021 9:52	DO	0.65	mg/L
GN-AP-MW-17V	4/6/2021 9:52	Depth to Water Detail	16.38	ft
GN-AP-MW-17V	4/6/2021 9:52	Oxidation Reduction Potention	84.46	mv
GN-AP-MW-17V	4/6/2021 9:52	pH	8.41	SU
GN-AP-MW-17V	4/6/2021 9:52	Temperature	19.98	C
GN-AP-MW-17V	4/6/2021 9:52	Turbidity	1.98	NTU
GN-AP-MW-17V	4/6/2021 9:57	Conductivity	698.16	uS/cm
GN-AP-MW-17V	4/6/2021 9:57	DO	0.67	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17V	4/6/2021 9:57	Depth to Water Detail	16.65	ft
GN-AP-MW-17V	4/6/2021 9:57	Oxidation Reduction Potention	83.22	mv
GN-AP-MW-17V	4/6/2021 9:57	pH	8.45	SU
GN-AP-MW-17V	4/6/2021 9:57	Temperature	20.11	C
GN-AP-MW-17V	4/6/2021 9:57	Turbidity	2.4	NTU
GN-AP-MW-17V	4/6/2021 10:02	Conductivity	700.46	uS/cm
GN-AP-MW-17V	4/6/2021 10:02	DO	0.66	mg/L
GN-AP-MW-17V	4/6/2021 10:02	Depth to Water Detail	16.93	ft
GN-AP-MW-17V	4/6/2021 10:02	Oxidation Reduction Potention	80.45	mv
GN-AP-MW-17V	4/6/2021 10:02	pH	8.48	SU
GN-AP-MW-17V	4/6/2021 10:02	Temperature	20.17	C
GN-AP-MW-17V	4/6/2021 10:02	Turbidity	2.91	NTU
GN-AP-MW-17V	4/6/2021 10:07	Conductivity	701.39	uS/cm
GN-AP-MW-17V	4/6/2021 10:07	DO	0.65	mg/L
GN-AP-MW-17V	4/6/2021 10:07	Depth to Water Detail	17.12	ft
GN-AP-MW-17V	4/6/2021 10:07	Oxidation Reduction Potention	78.76	mv
GN-AP-MW-17V	4/6/2021 10:07	pH	8.5	SU
GN-AP-MW-17V	4/6/2021 10:07	Temperature	20.4	C
GN-AP-MW-17V	4/6/2021 10:07	Turbidity	3.17	NTU
GN-AP-MW-17V	4/6/2021 10:12	Conductivity	702.5	uS/cm
GN-AP-MW-17V	4/6/2021 10:12	DO	0.65	mg/L
GN-AP-MW-17V	4/6/2021 10:12	Depth to Water Detail	17.38	ft
GN-AP-MW-17V	4/6/2021 10:12	Oxidation Reduction Potention	76.86	mv
GN-AP-MW-17V	4/6/2021 10:12	pH	8.52	SU
GN-AP-MW-17V	4/6/2021 10:12	Temperature	20.57	C
GN-AP-MW-17V	4/6/2021 10:12	Turbidity	3.11	NTU
GN-AP-MW-17V	4/6/2021 10:17	Conductivity	702.9	uS/cm
GN-AP-MW-17V	4/6/2021 10:17	DO	0.65	mg/L
GN-AP-MW-17V	4/6/2021 10:17	Depth to Water Detail	17.58	ft
GN-AP-MW-17V	4/6/2021 10:17	Oxidation Reduction Potention	73.93	mv
GN-AP-MW-17V	4/6/2021 10:17	pH	8.52	SU
GN-AP-MW-17V	4/6/2021 10:17	Temperature	20.59	C
GN-AP-MW-17V	4/6/2021 10:17	Turbidity	3.41	NTU
GN-AP-MW-17V	4/6/2021 10:22	Conductivity	703.67	uS/cm
GN-AP-MW-17V	4/6/2021 10:22	DO	0.63	mg/L
GN-AP-MW-17V	4/6/2021 10:22	Depth to Water Detail	17.82	ft
GN-AP-MW-17V	4/6/2021 10:22	Oxidation Reduction Potention	72.66	mv
GN-AP-MW-17V	4/6/2021 10:22	pH	8.52	SU
GN-AP-MW-17V	4/6/2021 10:22	Temperature	20.68	C
GN-AP-MW-17V	4/6/2021 10:22	Turbidity	3.33	NTU
GN-AP-MW-17V	4/6/2021 10:27	Conductivity	705.04	uS/cm
GN-AP-MW-17V	4/6/2021 10:27	DO	0.64	mg/L
GN-AP-MW-17V	4/6/2021 10:27	Depth to Water Detail	18.06	ft
GN-AP-MW-17V	4/6/2021 10:27	Oxidation Reduction Potention	71.94	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17V	4/6/2021 10:27	pH	8.53	SU
GN-AP-MW-17V	4/6/2021 10:27	Temperature	20.77	C
GN-AP-MW-17V	4/6/2021 10:27	Turbidity	3.87	NTU
GN-AP-MW-17V	4/6/2021 10:32	Conductivity	706.94	uS/cm
GN-AP-MW-17V	4/6/2021 10:32	DO	0.62	mg/L
GN-AP-MW-17V	4/6/2021 10:32	Depth to Water Detail	18.35	ft
GN-AP-MW-17V	4/6/2021 10:32	Oxidation Reduction Potention	69.31	mv
GN-AP-MW-17V	4/6/2021 10:32	pH	8.53	SU
GN-AP-MW-17V	4/6/2021 10:32	Temperature	20.85	C
GN-AP-MW-17V	4/6/2021 10:32	Turbidity	3.43	NTU
GN-AP-MW-17V	4/6/2021 10:37	Conductivity	710.12	uS/cm
GN-AP-MW-17V	4/6/2021 10:37	DO	0.62	mg/L
GN-AP-MW-17V	4/6/2021 10:37	Depth to Water Detail	18.58	ft
GN-AP-MW-17V	4/6/2021 10:37	Oxidation Reduction Potention	67.55	mv
GN-AP-MW-17V	4/6/2021 10:37	pH	8.53	SU
GN-AP-MW-17V	4/6/2021 10:37	Temperature	20.91	C
GN-AP-MW-17V	4/6/2021 10:37	Turbidity	3.79	NTU
GN-AP-MW-17V	4/6/2021 10:42	Conductivity	713.09	uS/cm
GN-AP-MW-17V	4/6/2021 10:42	DO	0.42	mg/L
GN-AP-MW-17V	4/6/2021 10:42	Depth to Water Detail	19.35	ft
GN-AP-MW-17V	4/6/2021 10:42	Oxidation Reduction Potention	63.56	mv
GN-AP-MW-17V	4/6/2021 10:42	pH	8.54	SU
GN-AP-MW-17V	4/6/2021 10:42	Temperature	20.92	C
GN-AP-MW-17V	4/6/2021 10:42	Turbidity	4.34	NTU
GN-AP-MW-17V	4/6/2021 10:47	Conductivity	703.06	uS/cm
GN-AP-MW-17V	4/6/2021 10:47	DO	0.15	mg/L
GN-AP-MW-17V	4/6/2021 10:47	Depth to Water Detail	21.45	ft
GN-AP-MW-17V	4/6/2021 10:47	Oxidation Reduction Potention	54.94	mv
GN-AP-MW-17V	4/6/2021 10:47	pH	8.41	SU
GN-AP-MW-17V	4/6/2021 10:47	Temperature	21.07	C
GN-AP-MW-17V	4/6/2021 10:47	Turbidity	3.11	NTU
GN-AP-MW-17V	4/6/2021 10:52	Conductivity	698.41	uS/cm
GN-AP-MW-17V	4/6/2021 10:52	DO	0.15	mg/L
GN-AP-MW-17V	4/6/2021 10:52	Depth to Water Detail	23.8	ft
GN-AP-MW-17V	4/6/2021 10:52	Oxidation Reduction Potention	52.98	mv
GN-AP-MW-17V	4/6/2021 10:52	pH	8.36	SU
GN-AP-MW-17V	4/6/2021 10:52	Temperature	21.06	C
GN-AP-MW-17V	4/6/2021 10:52	Turbidity	3.68	NTU
GN-AP-MW-17V	4/6/2021 10:57	Conductivity	698.53	uS/cm
GN-AP-MW-17V	4/6/2021 10:57	DO	0.15	mg/L
GN-AP-MW-17V	4/6/2021 10:57	Depth to Water Detail	26.15	ft
GN-AP-MW-17V	4/6/2021 10:57	Oxidation Reduction Potention	52.53	mv
GN-AP-MW-17V	4/6/2021 10:57	pH	8.35	SU
GN-AP-MW-17V	4/6/2021 10:57	Temperature	21.05	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17V	4/6/2021 10:57	Turbidity	4.72	NTU
GN-AP-MW-17V	4/6/2021 11:02	Conductivity	699.54	uS/cm
GN-AP-MW-17V	4/6/2021 11:02	DO	0.15	mg/L
GN-AP-MW-17V	4/6/2021 11:02	Depth to Water Detail	28.2	ft
GN-AP-MW-17V	4/6/2021 11:02	Oxidation Reduction Potention	51.51	mv
GN-AP-MW-17V	4/6/2021 11:02	pH	8.35	SU
GN-AP-MW-17V	4/6/2021 11:02	Temperature	21.1	C
GN-AP-MW-17V	4/6/2021 11:02	Turbidity	5.15	NTU
GN-AP-MW-17V	4/6/2021 11:07	Conductivity	701.05	uS/cm
GN-AP-MW-17V	4/6/2021 11:07	DO	0.15	mg/L
GN-AP-MW-17V	4/6/2021 11:07	Depth to Water Detail	30.3	ft
GN-AP-MW-17V	4/6/2021 11:07	Oxidation Reduction Potention	50.49	mv
GN-AP-MW-17V	4/6/2021 11:07	pH	8.35	SU
GN-AP-MW-17V	4/6/2021 11:07	Temperature	21.11	C
GN-AP-MW-17V	4/6/2021 11:07	Turbidity	6.01	NTU
GN-AP-MW-17V	4/6/2021 11:12	Conductivity	701.44	uS/cm
GN-AP-MW-17V	4/6/2021 11:12	DO	0.15	mg/L
GN-AP-MW-17V	4/6/2021 11:12	Depth to Water Detail	32.5	ft
GN-AP-MW-17V	4/6/2021 11:12	Oxidation Reduction Potention	47.86	mv
GN-AP-MW-17V	4/6/2021 11:12	pH	8.36	SU
GN-AP-MW-17V	4/6/2021 11:12	Temperature	21.09	C
GN-AP-MW-17V	4/6/2021 11:12	Turbidity	5.63	NTU
GN-AP-MW-17V	4/6/2021 11:17	Conductivity	702.15	uS/cm
GN-AP-MW-17V	4/6/2021 11:17	DO	0.15	mg/L
GN-AP-MW-17V	4/6/2021 11:17	Depth to Water Detail	34.5	ft
GN-AP-MW-17V	4/6/2021 11:17	Oxidation Reduction Potention	45.99	mv
GN-AP-MW-17V	4/6/2021 11:17	pH	8.36	SU
GN-AP-MW-17V	4/6/2021 11:17	Temperature	21.13	C
GN-AP-MW-17V	4/6/2021 11:17	Turbidity	6.78	NTU
GN-AP-MW-17V	4/6/2021 11:22	Conductivity	703.41	uS/cm
GN-AP-MW-17V	4/6/2021 11:22	DO	0.15	mg/L
GN-AP-MW-17V	4/6/2021 11:22	Depth to Water Detail	36.36	ft
GN-AP-MW-17V	4/6/2021 11:22	Oxidation Reduction Potention	42.78	mv
GN-AP-MW-17V	4/6/2021 11:22	pH	8.37	SU
GN-AP-MW-17V	4/6/2021 11:22	Temperature	21.14	C
GN-AP-MW-17V	4/6/2021 11:22	Turbidity	6.85	NTU
GN-AP-MW-17V	4/6/2021 11:27	Conductivity	704.76	uS/cm
GN-AP-MW-17V	4/6/2021 11:27	DO	0.39	mg/L
GN-AP-MW-17V	4/6/2021 11:27	Depth to Water Detail	36.4	ft
GN-AP-MW-17V	4/6/2021 11:27	Oxidation Reduction Potention	45.4	mv
GN-AP-MW-17V	4/6/2021 11:27	pH	8.37	SU
GN-AP-MW-17V	4/6/2021 11:27	Temperature	21.5	C
GN-AP-MW-17V	4/6/2021 11:27	Turbidity	5.91	NTU
GN-AP-MW-17V	4/6/2021 11:32	Conductivity	710.17	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17V	4/6/2021 11:32	DO	0.55	mg/L
GN-AP-MW-17V	4/6/2021 11:32	Depth to Water Detail	35.95	ft
GN-AP-MW-17V	4/6/2021 11:32	Oxidation Reduction Potention	46.71	mv
GN-AP-MW-17V	4/6/2021 11:32	pH	8.43	SU
GN-AP-MW-17V	4/6/2021 11:32	Temperature	21.55	C
GN-AP-MW-17V	4/6/2021 11:32	Turbidity	6.28	NTU
GN-AP-MW-17V	4/6/2021 11:37	Conductivity	721.73	uS/cm
GN-AP-MW-17V	4/6/2021 11:37	DO	0.63	mg/L
GN-AP-MW-17V	4/6/2021 11:37	Depth to Water Detail	35.6	ft
GN-AP-MW-17V	4/6/2021 11:37	Oxidation Reduction Potention	44.9	mv
GN-AP-MW-17V	4/6/2021 11:37	pH	8.54	SU
GN-AP-MW-17V	4/6/2021 11:37	Temperature	21.47	C
GN-AP-MW-17V	4/6/2021 11:37	Turbidity	7	NTU
GN-AP-MW-17V	4/6/2021 11:42	Conductivity	729.86	uS/cm
GN-AP-MW-17V	4/6/2021 11:42	DO	0.63	mg/L
GN-AP-MW-17V	4/6/2021 11:42	Depth to Water Detail	35.25	ft
GN-AP-MW-17V	4/6/2021 11:42	Oxidation Reduction Potention	41.34	mv
GN-AP-MW-17V	4/6/2021 11:42	pH	8.6	SU
GN-AP-MW-17V	4/6/2021 11:42	Temperature	21.48	C
GN-AP-MW-17V	4/6/2021 11:42	Turbidity	6.77	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-18	4/6/2021 15:31	Conductivity	730.72	uS/cm
GN-AP-MW-18	4/6/2021 15:31	DO	0.06	mg/L
GN-AP-MW-18	4/6/2021 15:31	Depth to Water Detail	19.04	ft
GN-AP-MW-18	4/6/2021 15:31	Oxidation Reduction Potention	50.51	mv
GN-AP-MW-18	4/6/2021 15:31	pH	6.74	SU
GN-AP-MW-18	4/6/2021 15:31	Temperature	20.11	C
GN-AP-MW-18	4/6/2021 15:31	Turbidity	4.34	NTU
GN-AP-MW-18	4/6/2021 15:36	Conductivity	780.4	uS/cm
GN-AP-MW-18	4/6/2021 15:36	DO	0.04	mg/L
GN-AP-MW-18	4/6/2021 15:36	Depth to Water Detail	19.04	ft
GN-AP-MW-18	4/6/2021 15:36	Oxidation Reduction Potention	45.93	mv
GN-AP-MW-18	4/6/2021 15:36	pH	6.71	SU
GN-AP-MW-18	4/6/2021 15:36	Temperature	20.14	C
GN-AP-MW-18	4/6/2021 15:36	Turbidity	3.27	NTU
GN-AP-MW-18	4/6/2021 15:41	Conductivity	789.5	uS/cm
GN-AP-MW-18	4/6/2021 15:41	DO	0.03	mg/L
GN-AP-MW-18	4/6/2021 15:41	Depth to Water Detail	19.04	ft
GN-AP-MW-18	4/6/2021 15:41	Oxidation Reduction Potention	42.46	mv
GN-AP-MW-18	4/6/2021 15:41	pH	6.69	SU
GN-AP-MW-18	4/6/2021 15:41	Temperature	20.2	C
GN-AP-MW-18	4/6/2021 15:41	Turbidity	2.99	NTU
GN-AP-MW-18	4/6/2021 15:46	Conductivity	805.93	uS/cm
GN-AP-MW-18	4/6/2021 15:46	DO	0.03	mg/L
GN-AP-MW-18	4/6/2021 15:46	Depth to Water Detail	19.04	ft
GN-AP-MW-18	4/6/2021 15:46	Oxidation Reduction Potention	40.54	mv
GN-AP-MW-18	4/6/2021 15:46	pH	6.67	SU
GN-AP-MW-18	4/6/2021 15:46	Temperature	19.99	C
GN-AP-MW-18	4/6/2021 15:46	Turbidity	1.44	NTU

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Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-28H	4/5/2021 14:36	Conductivity	437.52	uS/cm
GN-AP-MW-28H	4/5/2021 14:36	DO	0.05	mg/L
GN-AP-MW-28H	4/5/2021 14:36	Depth to Water Detail	13.51	ft
GN-AP-MW-28H	4/5/2021 14:36	Oxidation Reduction Potention	96.38	mv
GN-AP-MW-28H	4/5/2021 14:36	pH	7.77	SU
GN-AP-MW-28H	4/5/2021 14:36	Temperature	21.32	C
GN-AP-MW-28H	4/5/2021 14:36	Turbidity	1.52	NTU
GN-AP-MW-28H	4/5/2021 14:41	Conductivity	435.62	uS/cm
GN-AP-MW-28H	4/5/2021 14:41	DO	0.07	mg/L
GN-AP-MW-28H	4/5/2021 14:41	Depth to Water Detail	13.72	ft
GN-AP-MW-28H	4/5/2021 14:41	Oxidation Reduction Potention	88.38	mv
GN-AP-MW-28H	4/5/2021 14:41	pH	7.81	SU
GN-AP-MW-28H	4/5/2021 14:41	Temperature	21.17	C
GN-AP-MW-28H	4/5/2021 14:41	Turbidity	1.38	NTU
GN-AP-MW-28H	4/5/2021 14:46	Conductivity	435.01	uS/cm
GN-AP-MW-28H	4/5/2021 14:46	DO	0.09	mg/L
GN-AP-MW-28H	4/5/2021 14:46	Depth to Water Detail	13.72	ft
GN-AP-MW-28H	4/5/2021 14:46	Oxidation Reduction Potention	84.29	mv
GN-AP-MW-28H	4/5/2021 14:46	pH	7.84	SU
GN-AP-MW-28H	4/5/2021 14:46	Temperature	21.16	C
GN-AP-MW-28H	4/5/2021 14:46	Turbidity	1.5	NTU
GN-AP-MW-28H	4/5/2021 14:51	Conductivity	434.19	uS/cm
GN-AP-MW-28H	4/5/2021 14:51	DO	0.09	mg/L
GN-AP-MW-28H	4/5/2021 14:51	Depth to Water Detail	14.28	ft
GN-AP-MW-28H	4/5/2021 14:51	Oxidation Reduction Potention	79.58	mv
GN-AP-MW-28H	4/5/2021 14:51	pH	7.86	SU
GN-AP-MW-28H	4/5/2021 14:51	Temperature	21.29	C
GN-AP-MW-28H	4/5/2021 14:51	Turbidity	1.32	NTU
GN-AP-MW-28H	4/5/2021 14:56	Conductivity	433.9	uS/cm
GN-AP-MW-28H	4/5/2021 14:56	DO	0.1	mg/L
GN-AP-MW-28H	4/5/2021 14:56	Depth to Water Detail	14.28	ft
GN-AP-MW-28H	4/5/2021 14:56	Oxidation Reduction Potention	75.06	mv
GN-AP-MW-28H	4/5/2021 14:56	pH	7.87	SU
GN-AP-MW-28H	4/5/2021 14:56	Temperature	21.35	C
GN-AP-MW-28H	4/5/2021 14:56	Turbidity	1.38	NTU
GN-AP-MW-28H	4/5/2021 15:01	Conductivity	433.25	uS/cm
GN-AP-MW-28H	4/5/2021 15:01	DO	0.1	mg/L
GN-AP-MW-28H	4/5/2021 15:01	Depth to Water Detail	14.39	ft
GN-AP-MW-28H	4/5/2021 15:01	Oxidation Reduction Potention	70.58	mv
GN-AP-MW-28H	4/5/2021 15:01	pH	7.9	SU
GN-AP-MW-28H	4/5/2021 15:01	Temperature	21.23	C
GN-AP-MW-28H	4/5/2021 15:01	Turbidity	3.04	NTU
GN-AP-MW-28H	4/5/2021 15:06	Conductivity	431.65	uS/cm
GN-AP-MW-28H	4/5/2021 15:06	DO	0.1	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-28H	4/5/2021 15:06	Depth to Water Detail	14.45	ft
GN-AP-MW-28H	4/5/2021 15:06	Oxidation Reduction Potention	65.79	mv
GN-AP-MW-28H	4/5/2021 15:06	pH	7.91	SU
GN-AP-MW-28H	4/5/2021 15:06	Temperature	21.22	C
GN-AP-MW-28H	4/5/2021 15:06	Turbidity	4.02	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-29H	4/5/2021 15:53	Conductivity	522.78	uS/cm
GN-AP-MW-29H	4/5/2021 15:53	DO	0.07	mg/L
GN-AP-MW-29H	4/5/2021 15:53	Depth to Water Detail	7.55	ft
GN-AP-MW-29H	4/5/2021 15:53	Oxidation Reduction Potention	92.71	mv
GN-AP-MW-29H	4/5/2021 15:53	pH	7.93	SU
GN-AP-MW-29H	4/5/2021 15:53	Temperature	20.66	C
GN-AP-MW-29H	4/5/2021 15:53	Turbidity	2.52	NTU
GN-AP-MW-29H	4/5/2021 15:58	Conductivity	521.21	uS/cm
GN-AP-MW-29H	4/5/2021 15:58	DO	0.08	mg/L
GN-AP-MW-29H	4/5/2021 15:58	Depth to Water Detail	10.6	ft
GN-AP-MW-29H	4/5/2021 15:58	Oxidation Reduction Potention	90.99	mv
GN-AP-MW-29H	4/5/2021 15:58	pH	7.91	SU
GN-AP-MW-29H	4/5/2021 15:58	Temperature	20.68	C
GN-AP-MW-29H	4/5/2021 15:58	Turbidity	2.73	NTU
GN-AP-MW-29H	4/5/2021 16:03	Conductivity	520.41	uS/cm
GN-AP-MW-29H	4/5/2021 16:03	DO	0.1	mg/L
GN-AP-MW-29H	4/5/2021 16:03	Depth to Water Detail	12.65	ft
GN-AP-MW-29H	4/5/2021 16:03	Oxidation Reduction Potention	86.8	mv
GN-AP-MW-29H	4/5/2021 16:03	pH	7.92	SU
GN-AP-MW-29H	4/5/2021 16:03	Temperature	20.68	C
GN-AP-MW-29H	4/5/2021 16:03	Turbidity	2.86	NTU
GN-AP-MW-29H	4/5/2021 16:08	Conductivity	519.96	uS/cm
GN-AP-MW-29H	4/5/2021 16:08	DO	0.11	mg/L
GN-AP-MW-29H	4/5/2021 16:08	Depth to Water Detail	14.4	ft
GN-AP-MW-29H	4/5/2021 16:08	Oxidation Reduction Potention	82.68	mv
GN-AP-MW-29H	4/5/2021 16:08	pH	7.92	SU
GN-AP-MW-29H	4/5/2021 16:08	Temperature	20.58	C
GN-AP-MW-29H	4/5/2021 16:08	Turbidity	2.8	NTU
GN-AP-MW-29H	4/5/2021 16:13	Conductivity	520.32	uS/cm
GN-AP-MW-29H	4/5/2021 16:13	DO	0.11	mg/L
GN-AP-MW-29H	4/5/2021 16:13	Depth to Water Detail	17.25	ft
GN-AP-MW-29H	4/5/2021 16:13	Oxidation Reduction Potention	79.52	mv
GN-AP-MW-29H	4/5/2021 16:13	pH	7.92	SU
GN-AP-MW-29H	4/5/2021 16:13	Temperature	20.6	C
GN-AP-MW-29H	4/5/2021 16:13	Turbidity	2.84	NTU
GN-AP-MW-29H	4/5/2021 16:18	Conductivity	520.09	uS/cm
GN-AP-MW-29H	4/5/2021 16:18	DO	0.11	mg/L
GN-AP-MW-29H	4/5/2021 16:18	Depth to Water Detail	20.2	ft
GN-AP-MW-29H	4/5/2021 16:18	Oxidation Reduction Potention	75.69	mv
GN-AP-MW-29H	4/5/2021 16:18	pH	7.92	SU
GN-AP-MW-29H	4/5/2021 16:18	Temperature	20.72	C
GN-AP-MW-29H	4/5/2021 16:18	Turbidity	2.73	NTU
GN-AP-MW-29H	4/5/2021 16:23	Conductivity	519.73	uS/cm
GN-AP-MW-29H	4/5/2021 16:23	DO	0.11	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-29H	4/5/2021 16:23	Depth to Water Detail	22.28	ft
GN-AP-MW-29H	4/5/2021 16:23	Oxidation Reduction Potention	70.79	mv
GN-AP-MW-29H	4/5/2021 16:23	pH	7.93	SU
GN-AP-MW-29H	4/5/2021 16:23	Temperature	20.83	C
GN-AP-MW-29H	4/5/2021 16:23	Turbidity	2.68	NTU
GN-AP-MW-29H	4/5/2021 16:28	Conductivity	519.61	uS/cm
GN-AP-MW-29H	4/5/2021 16:28	DO	0.11	mg/L
GN-AP-MW-29H	4/5/2021 16:28	Depth to Water Detail	24.9	ft
GN-AP-MW-29H	4/5/2021 16:28	Oxidation Reduction Potention	66.6	mv
GN-AP-MW-29H	4/5/2021 16:28	pH	7.94	SU
GN-AP-MW-29H	4/5/2021 16:28	Temperature	20.83	C
GN-AP-MW-29H	4/5/2021 16:28	Turbidity	2.78	NTU
GN-AP-MW-29H	4/5/2021 16:33	Conductivity	520.08	uS/cm
GN-AP-MW-29H	4/5/2021 16:33	DO	0.11	mg/L
GN-AP-MW-29H	4/5/2021 16:33	Depth to Water Detail	27.3	ft
GN-AP-MW-29H	4/5/2021 16:33	Oxidation Reduction Potention	62.83	mv
GN-AP-MW-29H	4/5/2021 16:33	pH	7.94	SU
GN-AP-MW-29H	4/5/2021 16:33	Temperature	20.89	C
GN-AP-MW-29H	4/5/2021 16:33	Turbidity	2.83	NTU
GN-AP-MW-29H	4/5/2021 16:38	Conductivity	519.19	uS/cm
GN-AP-MW-29H	4/5/2021 16:38	DO	0.11	mg/L
GN-AP-MW-29H	4/5/2021 16:38	Depth to Water Detail	29.25	ft
GN-AP-MW-29H	4/5/2021 16:38	Oxidation Reduction Potention	59.65	mv
GN-AP-MW-29H	4/5/2021 16:38	pH	7.95	SU
GN-AP-MW-29H	4/5/2021 16:38	Temperature	21.06	C
GN-AP-MW-29H	4/5/2021 16:38	Turbidity	2.73	NTU
GN-AP-MW-29H	4/5/2021 16:43	Conductivity	519.28	uS/cm
GN-AP-MW-29H	4/5/2021 16:43	DO	0.27	mg/L
GN-AP-MW-29H	4/5/2021 16:43	Depth to Water Detail	29.45	ft
GN-AP-MW-29H	4/5/2021 16:43	Oxidation Reduction Potention	62.89	mv
GN-AP-MW-29H	4/5/2021 16:43	pH	7.98	SU
GN-AP-MW-29H	4/5/2021 16:43	Temperature	21.47	C
GN-AP-MW-29H	4/5/2021 16:43	Turbidity	2.83	NTU
GN-AP-MW-29H	4/5/2021 16:48	Conductivity	518.49	uS/cm
GN-AP-MW-29H	4/5/2021 16:48	DO	0.42	mg/L
GN-AP-MW-29H	4/5/2021 16:48	Depth to Water Detail	29.55	ft
GN-AP-MW-29H	4/5/2021 16:48	Oxidation Reduction Potention	57.51	mv
GN-AP-MW-29H	4/5/2021 16:48	pH	8.07	SU
GN-AP-MW-29H	4/5/2021 16:48	Temperature	21.38	C
GN-AP-MW-29H	4/5/2021 16:48	Turbidity	2.44	NTU
GN-AP-MW-29H	4/5/2021 16:53	Conductivity	517.94	uS/cm
GN-AP-MW-29H	4/5/2021 16:53	DO	0.48	mg/L
GN-AP-MW-29H	4/5/2021 16:53	Depth to Water Detail	29.7	ft
GN-AP-MW-29H	4/5/2021 16:53	Oxidation Reduction Potention	48.35	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-29H	4/5/2021 16:53	pH	8.16	SU
GN-AP-MW-29H	4/5/2021 16:53	Temperature	21.38	C
GN-AP-MW-29H	4/5/2021 16:53	Turbidity	1.8	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-3	4/5/2021 10:38	Conductivity	270.65	uS/cm
GN-AP-MW-3	4/5/2021 10:38	DO	1.49	mg/L
GN-AP-MW-3	4/5/2021 10:38	Depth to Water Detail	20.08	ft
GN-AP-MW-3	4/5/2021 10:38	Oxidation Reduction Potention	43.47	mv
GN-AP-MW-3	4/5/2021 10:38	pH	7.25	SU
GN-AP-MW-3	4/5/2021 10:38	Temperature	18.52	C
GN-AP-MW-3	4/5/2021 10:38	Turbidity	1.19	NTU
GN-AP-MW-3	4/5/2021 10:43	Conductivity	269.72	uS/cm
GN-AP-MW-3	4/5/2021 10:43	DO	1.9	mg/L
GN-AP-MW-3	4/5/2021 10:43	Depth to Water Detail	21.54	ft
GN-AP-MW-3	4/5/2021 10:43	Oxidation Reduction Potention	52.54	mv
GN-AP-MW-3	4/5/2021 10:43	pH	7.24	SU
GN-AP-MW-3	4/5/2021 10:43	Temperature	18.58	C
GN-AP-MW-3	4/5/2021 10:43	Turbidity	0.93	NTU
GN-AP-MW-3	4/5/2021 10:48	Conductivity	267.57	uS/cm
GN-AP-MW-3	4/5/2021 10:48	DO	2.28	mg/L
GN-AP-MW-3	4/5/2021 10:48	Depth to Water Detail	22.14	ft
GN-AP-MW-3	4/5/2021 10:48	Oxidation Reduction Potention	57.24	mv
GN-AP-MW-3	4/5/2021 10:48	pH	7.31	SU
GN-AP-MW-3	4/5/2021 10:48	Temperature	18.71	C
GN-AP-MW-3	4/5/2021 10:48	Turbidity	0.43	NTU
GN-AP-MW-3	4/5/2021 10:53	Conductivity	265.91	uS/cm
GN-AP-MW-3	4/5/2021 10:53	DO	2.7	mg/L
GN-AP-MW-3	4/5/2021 10:53	Depth to Water Detail	22.5	ft
GN-AP-MW-3	4/5/2021 10:53	Oxidation Reduction Potention	60.2	mv
GN-AP-MW-3	4/5/2021 10:53	pH	7.4	SU
GN-AP-MW-3	4/5/2021 10:53	Temperature	18.64	C
GN-AP-MW-3	4/5/2021 10:53	Turbidity	1.06	NTU
GN-AP-MW-3	4/5/2021 10:58	Conductivity	265.68	uS/cm
GN-AP-MW-3	4/5/2021 10:58	DO	2.83	mg/L
GN-AP-MW-3	4/5/2021 10:58	Depth to Water Detail	22.79	ft
GN-AP-MW-3	4/5/2021 10:58	Oxidation Reduction Potention	61.62	mv
GN-AP-MW-3	4/5/2021 10:58	pH	7.48	SU
GN-AP-MW-3	4/5/2021 10:58	Temperature	18.66	C
GN-AP-MW-3	4/5/2021 10:58	Turbidity	0.79	NTU
GN-AP-MW-3	4/5/2021 11:03	Conductivity	264.3	uS/cm
GN-AP-MW-3	4/5/2021 11:03	DO	3.03	mg/L
GN-AP-MW-3	4/5/2021 11:03	Depth to Water Detail	22.98	ft
GN-AP-MW-3	4/5/2021 11:03	Oxidation Reduction Potention	61.89	mv
GN-AP-MW-3	4/5/2021 11:03	pH	7.56	SU
GN-AP-MW-3	4/5/2021 11:03	Temperature	18.85	C
GN-AP-MW-3	4/5/2021 11:03	Turbidity	0.77	NTU
GN-AP-MW-3	4/5/2021 11:08	Conductivity	264.48	uS/cm
GN-AP-MW-3	4/5/2021 11:08	DO	3.19	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-3	4/5/2021 11:08	Depth to Water Detail	23.19	ft
GN-AP-MW-3	4/5/2021 11:08	Oxidation Reduction Potention	61.76	mv
GN-AP-MW-3	4/5/2021 11:08	pH	7.61	SU
GN-AP-MW-3	4/5/2021 11:08	Temperature	18.81	C
GN-AP-MW-3	4/5/2021 11:08	Turbidity	0.82	NTU
GN-AP-MW-3	4/5/2021 11:13	Conductivity	264.88	uS/cm
GN-AP-MW-3	4/5/2021 11:13	DO	3.36	mg/L
GN-AP-MW-3	4/5/2021 11:13	Depth to Water Detail	23.3	ft
GN-AP-MW-3	4/5/2021 11:13	Oxidation Reduction Potention	61.01	mv
GN-AP-MW-3	4/5/2021 11:13	pH	7.64	SU
GN-AP-MW-3	4/5/2021 11:13	Temperature	18.79	C
GN-AP-MW-3	4/5/2021 11:13	Turbidity	0.8	NTU
GN-AP-MW-3	4/5/2021 11:18	Conductivity	264.63	uS/cm
GN-AP-MW-3	4/5/2021 11:18	DO	3.49	mg/L
GN-AP-MW-3	4/5/2021 11:18	Depth to Water Detail	23.42	ft
GN-AP-MW-3	4/5/2021 11:18	Oxidation Reduction Potention	61.59	mv
GN-AP-MW-3	4/5/2021 11:18	pH	7.67	SU
GN-AP-MW-3	4/5/2021 11:18	Temperature	18.88	C
GN-AP-MW-3	4/5/2021 11:18	Turbidity	0.76	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-4	4/5/2021 9:25	Conductivity	478.06	uS/cm
GN-AP-MW-4	4/5/2021 9:25	DO	0.4	mg/L
GN-AP-MW-4	4/5/2021 9:25	Depth to Water Detail	10.05	ft
GN-AP-MW-4	4/5/2021 9:25	Oxidation Reduction Potention	-52.63	mv
GN-AP-MW-4	4/5/2021 9:25	pH	7.34	SU
GN-AP-MW-4	4/5/2021 9:25	Temperature	18.74	C
GN-AP-MW-4	4/5/2021 9:25	Turbidity	2.01	NTU
GN-AP-MW-4	4/5/2021 9:30	Conductivity	463.36	uS/cm
GN-AP-MW-4	4/5/2021 9:30	DO	1.03	mg/L
GN-AP-MW-4	4/5/2021 9:30	Depth to Water Detail	10.07	ft
GN-AP-MW-4	4/5/2021 9:30	Oxidation Reduction Potention	-10.86	mv
GN-AP-MW-4	4/5/2021 9:30	pH	7.32	SU
GN-AP-MW-4	4/5/2021 9:30	Temperature	18.79	C
GN-AP-MW-4	4/5/2021 9:30	Turbidity	5.44	NTU
GN-AP-MW-4	4/5/2021 9:35	Conductivity	462.89	uS/cm
GN-AP-MW-4	4/5/2021 9:35	DO	1.16	mg/L
GN-AP-MW-4	4/5/2021 9:35	Depth to Water Detail	10.07	ft
GN-AP-MW-4	4/5/2021 9:35	Oxidation Reduction Potention	-0.22	mv
GN-AP-MW-4	4/5/2021 9:35	pH	7.33	SU
GN-AP-MW-4	4/5/2021 9:35	Temperature	18.81	C
GN-AP-MW-4	4/5/2021 9:35	Turbidity	3.04	NTU
GN-AP-MW-4	4/5/2021 9:40	Conductivity	462.28	uS/cm
GN-AP-MW-4	4/5/2021 9:40	DO	1.19	mg/L
GN-AP-MW-4	4/5/2021 9:40	Depth to Water Detail	10.08	ft
GN-AP-MW-4	4/5/2021 9:40	Oxidation Reduction Potention	7.24	mv
GN-AP-MW-4	4/5/2021 9:40	pH	7.33	SU
GN-AP-MW-4	4/5/2021 9:40	Temperature	18.91	C
GN-AP-MW-4	4/5/2021 9:40	Turbidity	3.09	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-5	4/7/2021 10:40	Conductivity	444.15	uS/cm
GN-AP-MW-5	4/7/2021 10:40	DO	4.38	mg/L
GN-AP-MW-5	4/7/2021 10:40	Depth to Water Detail	10.08	ft
GN-AP-MW-5	4/7/2021 10:40	Oxidation Reduction Potention	12.62	mv
GN-AP-MW-5	4/7/2021 10:40	pH	7.47	SU
GN-AP-MW-5	4/7/2021 10:40	Temperature	19.7	C
GN-AP-MW-5	4/7/2021 10:40	Turbidity	1.88	NTU
GN-AP-MW-5	4/7/2021 10:45	Conductivity	439.57	uS/cm
GN-AP-MW-5	4/7/2021 10:45	DO	4.41	mg/L
GN-AP-MW-5	4/7/2021 10:45	Depth to Water Detail	10.08	ft
GN-AP-MW-5	4/7/2021 10:45	Oxidation Reduction Potention	29.91	mv
GN-AP-MW-5	4/7/2021 10:45	pH	7.47	SU
GN-AP-MW-5	4/7/2021 10:45	Temperature	19.73	C
GN-AP-MW-5	4/7/2021 10:45	Turbidity	2.4	NTU
GN-AP-MW-5	4/7/2021 10:50	Conductivity	443.12	uS/cm
GN-AP-MW-5	4/7/2021 10:50	DO	4.39	mg/L
GN-AP-MW-5	4/7/2021 10:50	Depth to Water Detail	10.08	ft
GN-AP-MW-5	4/7/2021 10:50	Oxidation Reduction Potention	41.32	mv
GN-AP-MW-5	4/7/2021 10:50	pH	7.46	SU
GN-AP-MW-5	4/7/2021 10:50	Temperature	19.76	C
GN-AP-MW-5	4/7/2021 10:50	Turbidity	2.66	NTU
GN-AP-MW-5	4/7/2021 10:55	Conductivity	443.83	uS/cm
GN-AP-MW-5	4/7/2021 10:55	DO	4.39	mg/L
GN-AP-MW-5	4/7/2021 10:55	Depth to Water Detail	10.08	ft
GN-AP-MW-5	4/7/2021 10:55	Oxidation Reduction Potention	47.73	mv
GN-AP-MW-5	4/7/2021 10:55	pH	7.47	SU
GN-AP-MW-5	4/7/2021 10:55	Temperature	19.8	C
GN-AP-MW-5	4/7/2021 10:55	Turbidity	2.53	NTU

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Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-15R	4/6/2021 9:37	Conductivity	915.54	uS/cm
GN-AP-MW-15R	4/6/2021 9:37	DO	1.08	mg/L
GN-AP-MW-15R	4/6/2021 9:37	Depth to Water Detail	41.91	ft
GN-AP-MW-15R	4/6/2021 9:37	Oxidation Reduction Potention	-107.53	mv
GN-AP-MW-15R	4/6/2021 9:37	pH	7.53	SU
GN-AP-MW-15R	4/6/2021 9:37	Temperature	19	C
GN-AP-MW-15R	4/6/2021 9:37	Turbidity	1.55	NTU
GN-AP-MW-15R	4/6/2021 9:42	Conductivity	914.28	uS/cm
GN-AP-MW-15R	4/6/2021 9:42	DO	0.68	mg/L
GN-AP-MW-15R	4/6/2021 9:42	Depth to Water Detail	42.38	ft
GN-AP-MW-15R	4/6/2021 9:42	Oxidation Reduction Potention	-102.1	mv
GN-AP-MW-15R	4/6/2021 9:42	pH	7.59	SU
GN-AP-MW-15R	4/6/2021 9:42	Temperature	18.92	C
GN-AP-MW-15R	4/6/2021 9:42	Turbidity	1.07	NTU
GN-AP-MW-15R	4/6/2021 9:47	Conductivity	915.05	uS/cm
GN-AP-MW-15R	4/6/2021 9:47	DO	0.55	mg/L
GN-AP-MW-15R	4/6/2021 9:47	Depth to Water Detail	42.72	ft
GN-AP-MW-15R	4/6/2021 9:47	Oxidation Reduction Potention	-102.62	mv
GN-AP-MW-15R	4/6/2021 9:47	pH	7.61	SU
GN-AP-MW-15R	4/6/2021 9:47	Temperature	18.93	C
GN-AP-MW-15R	4/6/2021 9:47	Turbidity	0.99	NTU
GN-AP-MW-15R	4/6/2021 9:52	Conductivity	914.71	uS/cm
GN-AP-MW-15R	4/6/2021 9:52	DO	0.47	mg/L
GN-AP-MW-15R	4/6/2021 9:52	Depth to Water Detail	42.91	ft
GN-AP-MW-15R	4/6/2021 9:52	Oxidation Reduction Potention	-101.29	mv
GN-AP-MW-15R	4/6/2021 9:52	pH	7.62	SU
GN-AP-MW-15R	4/6/2021 9:52	Temperature	19.01	C
GN-AP-MW-15R	4/6/2021 9:52	Turbidity	1.32	NTU
GN-AP-MW-15R	4/6/2021 9:57	Conductivity	914.4	uS/cm
GN-AP-MW-15R	4/6/2021 9:57	DO	0.44	mg/L
GN-AP-MW-15R	4/6/2021 9:57	Depth to Water Detail	43.1	ft
GN-AP-MW-15R	4/6/2021 9:57	Oxidation Reduction Potention	-100.4	mv
GN-AP-MW-15R	4/6/2021 9:57	pH	7.62	SU
GN-AP-MW-15R	4/6/2021 9:57	Temperature	19.03	C
GN-AP-MW-15R	4/6/2021 9:57	Turbidity	1.42	NTU
GN-AP-MW-15R	4/6/2021 10:02	Conductivity	914.14	uS/cm
GN-AP-MW-15R	4/6/2021 10:02	DO	0.42	mg/L
GN-AP-MW-15R	4/6/2021 10:02	Depth to Water Detail	43.22	ft
GN-AP-MW-15R	4/6/2021 10:02	Oxidation Reduction Potention	-100.02	mv
GN-AP-MW-15R	4/6/2021 10:02	pH	7.63	SU
GN-AP-MW-15R	4/6/2021 10:02	Temperature	19.08	C
GN-AP-MW-15R	4/6/2021 10:02	Turbidity	1.03	NTU
GN-AP-MW-15R	4/6/2021 10:07	Conductivity	914.49	uS/cm
GN-AP-MW-15R	4/6/2021 10:07	DO	0.42	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-15R	4/6/2021 10:07	Depth to Water Detail	43.33	ft
GN-AP-MW-15R	4/6/2021 10:07	Oxidation Reduction Potention	-100.95	mv
GN-AP-MW-15R	4/6/2021 10:07	pH	7.64	SU
GN-AP-MW-15R	4/6/2021 10:07	Temperature	19.1	C
GN-AP-MW-15R	4/6/2021 10:07	Turbidity	0.8	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-19	4/5/2021 12:11	Conductivity	401.71	uS/cm
GN-AP-MW-19	4/5/2021 12:11	DO	0.17	mg/L
GN-AP-MW-19	4/5/2021 12:11	Depth to Water Detail	8.58	ft
GN-AP-MW-19	4/5/2021 12:11	Oxidation Reduction Potention	-183.46	mv
GN-AP-MW-19	4/5/2021 12:11	pH	7.31	SU
GN-AP-MW-19	4/5/2021 12:11	Temperature	19.55	C
GN-AP-MW-19	4/5/2021 12:11	Turbidity	0.83	NTU
GN-AP-MW-19	4/5/2021 12:16	Conductivity	401.97	uS/cm
GN-AP-MW-19	4/5/2021 12:16	DO	0.13	mg/L
GN-AP-MW-19	4/5/2021 12:16	Depth to Water Detail	12.66	ft
GN-AP-MW-19	4/5/2021 12:16	Oxidation Reduction Potention	-185.68	mv
GN-AP-MW-19	4/5/2021 12:16	pH	7.19	SU
GN-AP-MW-19	4/5/2021 12:16	Temperature	19.52	C
GN-AP-MW-19	4/5/2021 12:16	Turbidity	0.4	NTU
GN-AP-MW-19	4/5/2021 12:21	Conductivity	401.26	uS/cm
GN-AP-MW-19	4/5/2021 12:21	DO	0.11	mg/L
GN-AP-MW-19	4/5/2021 12:21	Depth to Water Detail	16.38	ft
GN-AP-MW-19	4/5/2021 12:21	Oxidation Reduction Potention	-189.1	mv
GN-AP-MW-19	4/5/2021 12:21	pH	7.18	SU
GN-AP-MW-19	4/5/2021 12:21	Temperature	19.48	C
GN-AP-MW-19	4/5/2021 12:21	Turbidity	0.68	NTU
GN-AP-MW-19	4/5/2021 12:26	Conductivity	401.09	uS/cm
GN-AP-MW-19	4/5/2021 12:26	DO	0.1	mg/L
GN-AP-MW-19	4/5/2021 12:26	Depth to Water Detail	19.78	ft
GN-AP-MW-19	4/5/2021 12:26	Oxidation Reduction Potention	-192.55	mv
GN-AP-MW-19	4/5/2021 12:26	pH	7.19	SU
GN-AP-MW-19	4/5/2021 12:26	Temperature	19.65	C
GN-AP-MW-19	4/5/2021 12:26	Turbidity	1.37	NTU
GN-AP-MW-19	4/5/2021 12:31	Conductivity	400.82	uS/cm
GN-AP-MW-19	4/5/2021 12:31	DO	0.09	mg/L
GN-AP-MW-19	4/5/2021 12:31	Depth to Water Detail	23.07	ft
GN-AP-MW-19	4/5/2021 12:31	Oxidation Reduction Potention	-195.05	mv
GN-AP-MW-19	4/5/2021 12:31	pH	7.23	SU
GN-AP-MW-19	4/5/2021 12:31	Temperature	19.79	C
GN-AP-MW-19	4/5/2021 12:31	Turbidity	1.56	NTU
GN-AP-MW-19	4/5/2021 12:36	Conductivity	400.89	uS/cm
GN-AP-MW-19	4/5/2021 12:36	DO	0.1	mg/L
GN-AP-MW-19	4/5/2021 12:36	Depth to Water Detail	26.23	ft
GN-AP-MW-19	4/5/2021 12:36	Oxidation Reduction Potention	-196.68	mv
GN-AP-MW-19	4/5/2021 12:36	pH	7.24	SU
GN-AP-MW-19	4/5/2021 12:36	Temperature	19.78	C
GN-AP-MW-19	4/5/2021 12:36	Turbidity	0.49	NTU
GN-AP-MW-19	4/5/2021 12:41	Conductivity	399.92	uS/cm
GN-AP-MW-19	4/5/2021 12:41	DO	0.44	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-19	4/5/2021 12:41	Depth to Water Detail	29.28	ft
GN-AP-MW-19	4/5/2021 12:41	Oxidation Reduction Potention	-176.93	mv
GN-AP-MW-19	4/5/2021 12:41	pH	7.24	SU
GN-AP-MW-19	4/5/2021 12:41	Temperature	19.74	C
GN-AP-MW-19	4/5/2021 12:41	Turbidity	0.53	NTU
GN-AP-MW-19	4/5/2021 12:46	Conductivity	397.82	uS/cm
GN-AP-MW-19	4/5/2021 12:46	DO	1.97	mg/L
GN-AP-MW-19	4/5/2021 12:46	Depth to Water Detail	33.38	ft
GN-AP-MW-19	4/5/2021 12:46	Oxidation Reduction Potention	-146.31	mv
GN-AP-MW-19	4/5/2021 12:46	pH	7.31	SU
GN-AP-MW-19	4/5/2021 12:46	Temperature	19.91	C
GN-AP-MW-19	4/5/2021 12:46	Turbidity	0.38	NTU
GN-AP-MW-19	4/5/2021 12:51	Conductivity	397.29	uS/cm
GN-AP-MW-19	4/5/2021 12:51	DO	2.84	mg/L
GN-AP-MW-19	4/5/2021 12:51	Depth to Water Detail	34.1	ft
GN-AP-MW-19	4/5/2021 12:51	Oxidation Reduction Potention	-134.03	mv
GN-AP-MW-19	4/5/2021 12:51	pH	7.39	SU
GN-AP-MW-19	4/5/2021 12:51	Temperature	21.08	C
GN-AP-MW-19	4/5/2021 12:51	Turbidity	0.65	NTU
GN-AP-MW-19	4/5/2021 12:56	Conductivity	396.95	uS/cm
GN-AP-MW-19	4/5/2021 12:56	DO	3.01	mg/L
GN-AP-MW-19	4/5/2021 12:56	Depth to Water Detail	34.26	ft
GN-AP-MW-19	4/5/2021 12:56	Oxidation Reduction Potention	-133.05	mv
GN-AP-MW-19	4/5/2021 12:56	pH	7.49	SU
GN-AP-MW-19	4/5/2021 12:56	Temperature	21.05	C
GN-AP-MW-19	4/5/2021 12:56	Turbidity	0.49	NTU
GN-AP-MW-19	4/5/2021 13:01	Conductivity	399.28	uS/cm
GN-AP-MW-19	4/5/2021 13:01	DO	1.63	mg/L
GN-AP-MW-19	4/5/2021 13:01	Depth to Water Detail	34.42	ft
GN-AP-MW-19	4/5/2021 13:01	Oxidation Reduction Potention	-156.54	mv
GN-AP-MW-19	4/5/2021 13:01	pH	7.53	SU
GN-AP-MW-19	4/5/2021 13:01	Temperature	21.17	C
GN-AP-MW-19	4/5/2021 13:01	Turbidity	0.86	NTU
GN-AP-MW-19	4/5/2021 13:06	Conductivity	398.82	uS/cm
GN-AP-MW-19	4/5/2021 13:06	DO	1.25	mg/L
GN-AP-MW-19	4/5/2021 13:06	Depth to Water Detail	34.61	ft
GN-AP-MW-19	4/5/2021 13:06	Oxidation Reduction Potention	-164.74	mv
GN-AP-MW-19	4/5/2021 13:06	pH	7.59	SU
GN-AP-MW-19	4/5/2021 13:06	Temperature	21.13	C
GN-AP-MW-19	4/5/2021 13:06	Turbidity	1.08	NTU
GN-AP-MW-19	4/5/2021 13:11	Conductivity	398.98	uS/cm
GN-AP-MW-19	4/5/2021 13:11	DO	1.09	mg/L
GN-AP-MW-19	4/5/2021 13:11	Depth to Water Detail	34.74	ft
GN-AP-MW-19	4/5/2021 13:11	Oxidation Reduction Potention	-169.75	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-19	4/5/2021 13:11	pH	7.63	SU
GN-AP-MW-19	4/5/2021 13:11	Temperature	21.35	C
GN-AP-MW-19	4/5/2021 13:11	Turbidity	0.66	NTU
GN-AP-MW-19	4/5/2021 13:16	Conductivity	398.8	uS/cm
GN-AP-MW-19	4/5/2021 13:16	DO	1.05	mg/L
GN-AP-MW-19	4/5/2021 13:16	Depth to Water Detail	34.92	ft
GN-AP-MW-19	4/5/2021 13:16	Oxidation Reduction Potention	-171.18	mv
GN-AP-MW-19	4/5/2021 13:16	pH	7.65	SU
GN-AP-MW-19	4/5/2021 13:16	Temperature	21.44	C
GN-AP-MW-19	4/5/2021 13:16	Turbidity	0.72	NTU
GN-AP-MW-19	4/5/2021 13:21	Conductivity	398.09	uS/cm
GN-AP-MW-19	4/5/2021 13:21	DO	1.05	mg/L
GN-AP-MW-19	4/5/2021 13:21	Depth to Water Detail	35.02	ft
GN-AP-MW-19	4/5/2021 13:21	Oxidation Reduction Potention	-170.78	mv
GN-AP-MW-19	4/5/2021 13:21	pH	7.66	SU
GN-AP-MW-19	4/5/2021 13:21	Temperature	21.45	C
GN-AP-MW-19	4/5/2021 13:21	Turbidity	0.96	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-23D	4/6/2021 12:38	Conductivity	596.45	uS/cm
GN-AP-MW-23D	4/6/2021 12:38	DO	0.58	mg/L
GN-AP-MW-23D	4/6/2021 12:38	Depth to Water Detail	8.59	ft
GN-AP-MW-23D	4/6/2021 12:38	Oxidation Reduction Potention	-290.45	mv
GN-AP-MW-23D	4/6/2021 12:38	pH	7.87	SU
GN-AP-MW-23D	4/6/2021 12:38	Temperature	20.12	C
GN-AP-MW-23D	4/6/2021 12:38	Turbidity	1.14	NTU
GN-AP-MW-23D	4/6/2021 12:43	Conductivity	596.62	uS/cm
GN-AP-MW-23D	4/6/2021 12:43	DO	0.47	mg/L
GN-AP-MW-23D	4/6/2021 12:43	Depth to Water Detail	8.98	ft
GN-AP-MW-23D	4/6/2021 12:43	Oxidation Reduction Potention	-287.42	mv
GN-AP-MW-23D	4/6/2021 12:43	pH	7.85	SU
GN-AP-MW-23D	4/6/2021 12:43	Temperature	19.91	C
GN-AP-MW-23D	4/6/2021 12:43	Turbidity	0.8	NTU
GN-AP-MW-23D	4/6/2021 12:48	Conductivity	597.25	uS/cm
GN-AP-MW-23D	4/6/2021 12:48	DO	0.4	mg/L
GN-AP-MW-23D	4/6/2021 12:48	Depth to Water Detail	9.1	ft
GN-AP-MW-23D	4/6/2021 12:48	Oxidation Reduction Potention	-290.48	mv
GN-AP-MW-23D	4/6/2021 12:48	pH	7.86	SU
GN-AP-MW-23D	4/6/2021 12:48	Temperature	20.05	C
GN-AP-MW-23D	4/6/2021 12:48	Turbidity	0.56	NTU
GN-AP-MW-23D	4/6/2021 12:53	Conductivity	597.32	uS/cm
GN-AP-MW-23D	4/6/2021 12:53	DO	0.6	mg/L
GN-AP-MW-23D	4/6/2021 12:53	Depth to Water Detail	9.32	ft
GN-AP-MW-23D	4/6/2021 12:53	Oxidation Reduction Potention	-288.34	mv
GN-AP-MW-23D	4/6/2021 12:53	pH	7.88	SU
GN-AP-MW-23D	4/6/2021 12:53	Temperature	20.56	C
GN-AP-MW-23D	4/6/2021 12:53	Turbidity	0.63	NTU
GN-AP-MW-23D	4/6/2021 12:58	Conductivity	596.37	uS/cm
GN-AP-MW-23D	4/6/2021 12:58	DO	0.6	mg/L
GN-AP-MW-23D	4/6/2021 12:58	Depth to Water Detail	9.38	ft
GN-AP-MW-23D	4/6/2021 12:58	Oxidation Reduction Potention	-289.54	mv
GN-AP-MW-23D	4/6/2021 12:58	pH	7.88	SU
GN-AP-MW-23D	4/6/2021 12:58	Temperature	20.64	C
GN-AP-MW-23D	4/6/2021 12:58	Turbidity	0.77	NTU
GN-AP-MW-23D	4/6/2021 13:03	Conductivity	593.51	uS/cm
GN-AP-MW-23D	4/6/2021 13:03	DO	0.6	mg/L
GN-AP-MW-23D	4/6/2021 13:03	Depth to Water Detail	9.41	ft
GN-AP-MW-23D	4/6/2021 13:03	Oxidation Reduction Potention	-288.63	mv
GN-AP-MW-23D	4/6/2021 13:03	pH	7.89	SU
GN-AP-MW-23D	4/6/2021 13:03	Temperature	20.47	C
GN-AP-MW-23D	4/6/2021 13:03	Turbidity	0.71	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-23S	4/6/2021 11:26	Conductivity	487.42	uS/cm
GN-AP-MW-23S	4/6/2021 11:26	DO	2.17	mg/L
GN-AP-MW-23S	4/6/2021 11:26	Depth to Water Detail	7.37	ft
GN-AP-MW-23S	4/6/2021 11:26	Oxidation Reduction Potention	27.83	mv
GN-AP-MW-23S	4/6/2021 11:26	pH	7.21	SU
GN-AP-MW-23S	4/6/2021 11:26	Temperature	19.28	C
GN-AP-MW-23S	4/6/2021 11:26	Turbidity	0.73	NTU
GN-AP-MW-23S	4/6/2021 11:31	Conductivity	487.3	uS/cm
GN-AP-MW-23S	4/6/2021 11:31	DO	2.07	mg/L
GN-AP-MW-23S	4/6/2021 11:31	Depth to Water Detail	7.41	ft
GN-AP-MW-23S	4/6/2021 11:31	Oxidation Reduction Potention	36.14	mv
GN-AP-MW-23S	4/6/2021 11:31	pH	7.21	SU
GN-AP-MW-23S	4/6/2021 11:31	Temperature	19.22	C
GN-AP-MW-23S	4/6/2021 11:31	Turbidity	0.63	NTU
GN-AP-MW-23S	4/6/2021 11:36	Conductivity	488.49	uS/cm
GN-AP-MW-23S	4/6/2021 11:36	DO	2.03	mg/L
GN-AP-MW-23S	4/6/2021 11:36	Depth to Water Detail	7.41	ft
GN-AP-MW-23S	4/6/2021 11:36	Oxidation Reduction Potention	40.87	mv
GN-AP-MW-23S	4/6/2021 11:36	pH	7.22	SU
GN-AP-MW-23S	4/6/2021 11:36	Temperature	19.34	C
GN-AP-MW-23S	4/6/2021 11:36	Turbidity	0.6	NTU
GN-AP-MW-23S	4/6/2021 11:41	Conductivity	489.9	uS/cm
GN-AP-MW-23S	4/6/2021 11:41	DO	1.98	mg/L
GN-AP-MW-23S	4/6/2021 11:41	Depth to Water Detail	7.41	ft
GN-AP-MW-23S	4/6/2021 11:41	Oxidation Reduction Potention	43.79	mv
GN-AP-MW-23S	4/6/2021 11:41	pH	7.23	SU
GN-AP-MW-23S	4/6/2021 11:41	Temperature	19.38	C
GN-AP-MW-23S	4/6/2021 11:41	Turbidity	0.57	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-26	4/7/2021 8:25	Conductivity	618.09	uS/cm
GN-AP-MW-26	4/7/2021 8:25	DO	3.43	mg/L
GN-AP-MW-26	4/7/2021 8:25	Depth to Water Detail	10.51	ft
GN-AP-MW-26	4/7/2021 8:25	Oxidation Reduction Potention	-15.09	mv
GN-AP-MW-26	4/7/2021 8:25	pH	7.56	SU
GN-AP-MW-26	4/7/2021 8:25	Temperature	16.85	C
GN-AP-MW-26	4/7/2021 8:25	Turbidity	1.02	NTU
GN-AP-MW-26	4/7/2021 8:30	Conductivity	618.01	uS/cm
GN-AP-MW-26	4/7/2021 8:30	DO	3.27	mg/L
GN-AP-MW-26	4/7/2021 8:30	Depth to Water Detail	10.92	ft
GN-AP-MW-26	4/7/2021 8:30	Oxidation Reduction Potention	-1.04	mv
GN-AP-MW-26	4/7/2021 8:30	pH	7.56	SU
GN-AP-MW-26	4/7/2021 8:30	Temperature	16.91	C
GN-AP-MW-26	4/7/2021 8:30	Turbidity	0.83	NTU
GN-AP-MW-26	4/7/2021 8:35	Conductivity	617.64	uS/cm
GN-AP-MW-26	4/7/2021 8:35	DO	3.23	mg/L
GN-AP-MW-26	4/7/2021 8:35	Depth to Water Detail	11.03	ft
GN-AP-MW-26	4/7/2021 8:35	Oxidation Reduction Potention	9.8	mv
GN-AP-MW-26	4/7/2021 8:35	pH	7.57	SU
GN-AP-MW-26	4/7/2021 8:35	Temperature	16.97	C
GN-AP-MW-26	4/7/2021 8:35	Turbidity	0.76	NTU
GN-AP-MW-26	4/7/2021 8:40	Conductivity	617.65	uS/cm
GN-AP-MW-26	4/7/2021 8:40	DO	3.16	mg/L
GN-AP-MW-26	4/7/2021 8:40	Depth to Water Detail	11.1	ft
GN-AP-MW-26	4/7/2021 8:40	Oxidation Reduction Potention	17.26	mv
GN-AP-MW-26	4/7/2021 8:40	pH	7.57	SU
GN-AP-MW-26	4/7/2021 8:40	Temperature	17.08	C
GN-AP-MW-26	4/7/2021 8:40	Turbidity	0.73	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-27	4/6/2021 14:47	Conductivity	235.88	uS/cm
GN-AP-MW-27	4/6/2021 14:47	DO	5.81	mg/L
GN-AP-MW-27	4/6/2021 14:47	Depth to Water Detail	6.12	ft
GN-AP-MW-27	4/6/2021 14:47	Oxidation Reduction Potention	43.1	mv
GN-AP-MW-27	4/6/2021 14:47	pH	6.42	SU
GN-AP-MW-27	4/6/2021 14:47	Temperature	19.68	C
GN-AP-MW-27	4/6/2021 14:47	Turbidity	3.53	NTU
GN-AP-MW-27	4/6/2021 14:52	Conductivity	229.15	uS/cm
GN-AP-MW-27	4/6/2021 14:52	DO	6.05	mg/L
GN-AP-MW-27	4/6/2021 14:52	Depth to Water Detail	6.12	ft
GN-AP-MW-27	4/6/2021 14:52	Oxidation Reduction Potention	65.97	mv
GN-AP-MW-27	4/6/2021 14:52	pH	6.28	SU
GN-AP-MW-27	4/6/2021 14:52	Temperature	19.77	C
GN-AP-MW-27	4/6/2021 14:52	Turbidity	2.85	NTU
GN-AP-MW-27	4/6/2021 14:57	Conductivity	230.78	uS/cm
GN-AP-MW-27	4/6/2021 14:57	DO	6.28	mg/L
GN-AP-MW-27	4/6/2021 14:57	Depth to Water Detail	6.12	ft
GN-AP-MW-27	4/6/2021 14:57	Oxidation Reduction Potention	80.28	mv
GN-AP-MW-27	4/6/2021 14:57	pH	6.26	SU
GN-AP-MW-27	4/6/2021 14:57	Temperature	19.67	C
GN-AP-MW-27	4/6/2021 14:57	Turbidity	2.66	NTU
GN-AP-MW-27	4/6/2021 15:02	Conductivity	236.3	uS/cm
GN-AP-MW-27	4/6/2021 15:02	DO	6.43	mg/L
GN-AP-MW-27	4/6/2021 15:02	Depth to Water Detail	6.12	ft
GN-AP-MW-27	4/6/2021 15:02	Oxidation Reduction Potention	85.85	mv
GN-AP-MW-27	4/6/2021 15:02	pH	6.26	SU
GN-AP-MW-27	4/6/2021 15:02	Temperature	19.61	C
GN-AP-MW-27	4/6/2021 15:02	Turbidity	2.62	NTU

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Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-30H	4/6/2021 8:09	Conductivity	970.82	uS/cm
GN-AP-MW-30H	4/6/2021 8:09	DO	0.35	mg/L
GN-AP-MW-30H	4/6/2021 8:09	Depth to Water Detail	42.02	ft
GN-AP-MW-30H	4/6/2021 8:09	Oxidation Reduction Potention	-174.38	mv
GN-AP-MW-30H	4/6/2021 8:09	pH	7.24	SU
GN-AP-MW-30H	4/6/2021 8:09	Temperature	18.77	C
GN-AP-MW-30H	4/6/2021 8:09	Turbidity	2.29	NTU
GN-AP-MW-30H	4/6/2021 8:14	Conductivity	962.9	uS/cm
GN-AP-MW-30H	4/6/2021 8:14	DO	0.59	mg/L
GN-AP-MW-30H	4/6/2021 8:14	Depth to Water Detail	41.5	ft
GN-AP-MW-30H	4/6/2021 8:14	Oxidation Reduction Potention	-168.22	mv
GN-AP-MW-30H	4/6/2021 8:14	pH	7.25	SU
GN-AP-MW-30H	4/6/2021 8:14	Temperature	18.88	C
GN-AP-MW-30H	4/6/2021 8:14	Turbidity	1.93	NTU
GN-AP-MW-30H	4/6/2021 8:19	Conductivity	891.52	uS/cm
GN-AP-MW-30H	4/6/2021 8:19	DO	0.3	mg/L
GN-AP-MW-30H	4/6/2021 8:19	Depth to Water Detail	42.09	ft
GN-AP-MW-30H	4/6/2021 8:19	Oxidation Reduction Potention	-161.59	mv
GN-AP-MW-30H	4/6/2021 8:19	pH	7.21	SU
GN-AP-MW-30H	4/6/2021 8:19	Temperature	19	C
GN-AP-MW-30H	4/6/2021 8:19	Turbidity	2	NTU
GN-AP-MW-30H	4/6/2021 8:24	Conductivity	857.02	uS/cm
GN-AP-MW-30H	4/6/2021 8:24	DO	0.25	mg/L
GN-AP-MW-30H	4/6/2021 8:24	Depth to Water Detail	42.46	ft
GN-AP-MW-30H	4/6/2021 8:24	Oxidation Reduction Potention	-159.44	mv
GN-AP-MW-30H	4/6/2021 8:24	pH	7.19	SU
GN-AP-MW-30H	4/6/2021 8:24	Temperature	19.14	C
GN-AP-MW-30H	4/6/2021 8:24	Turbidity	1.83	NTU
GN-AP-MW-30H	4/6/2021 8:29	Conductivity	818.92	uS/cm
GN-AP-MW-30H	4/6/2021 8:29	DO	0.24	mg/L
GN-AP-MW-30H	4/6/2021 8:29	Depth to Water Detail	42.5	ft
GN-AP-MW-30H	4/6/2021 8:29	Oxidation Reduction Potention	-154.25	mv
GN-AP-MW-30H	4/6/2021 8:29	pH	7.18	SU
GN-AP-MW-30H	4/6/2021 8:29	Temperature	19.16	C
GN-AP-MW-30H	4/6/2021 8:29	Turbidity	1.82	NTU
GN-AP-MW-30H	4/6/2021 8:34	Conductivity	800.47	uS/cm
GN-AP-MW-30H	4/6/2021 8:34	DO	0.23	mg/L
GN-AP-MW-30H	4/6/2021 8:34	Depth to Water Detail	42.56	ft
GN-AP-MW-30H	4/6/2021 8:34	Oxidation Reduction Potention	-150.31	mv
GN-AP-MW-30H	4/6/2021 8:34	pH	7.15	SU
GN-AP-MW-30H	4/6/2021 8:34	Temperature	19.14	C
GN-AP-MW-30H	4/6/2021 8:34	Turbidity	1.08	NTU
GN-AP-MW-30H	4/6/2021 8:39	Conductivity	783.65	uS/cm
GN-AP-MW-30H	4/6/2021 8:39	DO	0.24	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-30H	4/6/2021 8:39	Depth to Water Detail	42.6	ft
GN-AP-MW-30H	4/6/2021 8:39	Oxidation Reduction Potention	-148.45	mv
GN-AP-MW-30H	4/6/2021 8:39	pH	7.15	SU
GN-AP-MW-30H	4/6/2021 8:39	Temperature	19.19	C
GN-AP-MW-30H	4/6/2021 8:39	Turbidity	0.97	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-31VR	4/5/2021 14:26	Conductivity	503.56	uS/cm
GN-AP-MW-31VR	4/5/2021 14:26	DO	0.6	mg/L
GN-AP-MW-31VR	4/5/2021 14:26	Depth to Water Detail	41.01	ft
GN-AP-MW-31VR	4/5/2021 14:26	Oxidation Reduction Potention	-287.95	mv
GN-AP-MW-31VR	4/5/2021 14:26	pH	7.93	SU
GN-AP-MW-31VR	4/5/2021 14:26	Temperature	22.22	C
GN-AP-MW-31VR	4/5/2021 14:26	Turbidity	0.65	NTU
GN-AP-MW-31VR	4/5/2021 14:31	Conductivity	520.1	uS/cm
GN-AP-MW-31VR	4/5/2021 14:31	DO	0.46	mg/L
GN-AP-MW-31VR	4/5/2021 14:31	Depth to Water Detail	41.2	ft
GN-AP-MW-31VR	4/5/2021 14:31	Oxidation Reduction Potention	-292.31	mv
GN-AP-MW-31VR	4/5/2021 14:31	pH	8.04	SU
GN-AP-MW-31VR	4/5/2021 14:31	Temperature	22.01	C
GN-AP-MW-31VR	4/5/2021 14:31	Turbidity	0.6	NTU
GN-AP-MW-31VR	4/5/2021 14:36	Conductivity	537.26	uS/cm
GN-AP-MW-31VR	4/5/2021 14:36	DO	0.41	mg/L
GN-AP-MW-31VR	4/5/2021 14:36	Depth to Water Detail	41.42	ft
GN-AP-MW-31VR	4/5/2021 14:36	Oxidation Reduction Potention	-292.39	mv
GN-AP-MW-31VR	4/5/2021 14:36	pH	8.11	SU
GN-AP-MW-31VR	4/5/2021 14:36	Temperature	21.99	C
GN-AP-MW-31VR	4/5/2021 14:36	Turbidity	0.77	NTU
GN-AP-MW-31VR	4/5/2021 14:41	Conductivity	544.79	uS/cm
GN-AP-MW-31VR	4/5/2021 14:41	DO	0.41	mg/L
GN-AP-MW-31VR	4/5/2021 14:41	Depth to Water Detail	41.61	ft
GN-AP-MW-31VR	4/5/2021 14:41	Oxidation Reduction Potention	-290.48	mv
GN-AP-MW-31VR	4/5/2021 14:41	pH	8.15	SU
GN-AP-MW-31VR	4/5/2021 14:41	Temperature	21.71	C
GN-AP-MW-31VR	4/5/2021 14:41	Turbidity	1.22	NTU
GN-AP-MW-31VR	4/5/2021 14:46	Conductivity	542.4	uS/cm
GN-AP-MW-31VR	4/5/2021 14:46	DO	0.43	mg/L
GN-AP-MW-31VR	4/5/2021 14:46	Depth to Water Detail	41.8	ft
GN-AP-MW-31VR	4/5/2021 14:46	Oxidation Reduction Potention	-288.29	mv
GN-AP-MW-31VR	4/5/2021 14:46	pH	8.17	SU
GN-AP-MW-31VR	4/5/2021 14:46	Temperature	21.7	C
GN-AP-MW-31VR	4/5/2021 14:46	Turbidity	1.77	NTU
GN-AP-MW-31VR	4/5/2021 14:51	Conductivity	536.54	uS/cm
GN-AP-MW-31VR	4/5/2021 14:51	DO	0.47	mg/L
GN-AP-MW-31VR	4/5/2021 14:51	Depth to Water Detail	42	ft
GN-AP-MW-31VR	4/5/2021 14:51	Oxidation Reduction Potention	-285.77	mv
GN-AP-MW-31VR	4/5/2021 14:51	pH	8.18	SU
GN-AP-MW-31VR	4/5/2021 14:51	Temperature	21.52	C
GN-AP-MW-31VR	4/5/2021 14:51	Turbidity	1.65	NTU
GN-AP-MW-31VR	4/5/2021 14:56	Conductivity	528.14	uS/cm
GN-AP-MW-31VR	4/5/2021 14:56	DO	0.51	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-31VR	4/5/2021 14:56	Depth to Water Detail	42.17	ft
GN-AP-MW-31VR	4/5/2021 14:56	Oxidation Reduction Potention	-284.29	mv
GN-AP-MW-31VR	4/5/2021 14:56	pH	8.19	SU
GN-AP-MW-31VR	4/5/2021 14:56	Temperature	21.44	C
GN-AP-MW-31VR	4/5/2021 14:56	Turbidity	1.58	NTU
GN-AP-MW-31VR	4/5/2021 15:01	Conductivity	532	uS/cm
GN-AP-MW-31VR	4/5/2021 15:01	DO	0.52	mg/L
GN-AP-MW-31VR	4/5/2021 15:01	Depth to Water Detail	42.4	ft
GN-AP-MW-31VR	4/5/2021 15:01	Oxidation Reduction Potention	-283.86	mv
GN-AP-MW-31VR	4/5/2021 15:01	pH	8.19	SU
GN-AP-MW-31VR	4/5/2021 15:01	Temperature	21.4	C
GN-AP-MW-31VR	4/5/2021 15:01	Turbidity	2.85	NTU
GN-AP-MW-31VR	4/5/2021 15:06	Conductivity	524.41	uS/cm
GN-AP-MW-31VR	4/5/2021 15:06	DO	0.55	mg/L
GN-AP-MW-31VR	4/5/2021 15:06	Depth to Water Detail	42.61	ft
GN-AP-MW-31VR	4/5/2021 15:06	Oxidation Reduction Potention	-282.91	mv
GN-AP-MW-31VR	4/5/2021 15:06	pH	8.19	SU
GN-AP-MW-31VR	4/5/2021 15:06	Temperature	21.79	C
GN-AP-MW-31VR	4/5/2021 15:06	Turbidity	1.24	NTU
GN-AP-MW-31VR	4/5/2021 15:11	Conductivity	518.86	uS/cm
GN-AP-MW-31VR	4/5/2021 15:11	DO	0.59	mg/L
GN-AP-MW-31VR	4/5/2021 15:11	Depth to Water Detail	42.8	ft
GN-AP-MW-31VR	4/5/2021 15:11	Oxidation Reduction Potention	-282.26	mv
GN-AP-MW-31VR	4/5/2021 15:11	pH	8.19	SU
GN-AP-MW-31VR	4/5/2021 15:11	Temperature	21.84	C
GN-AP-MW-31VR	4/5/2021 15:11	Turbidity	1.18	NTU
GN-AP-MW-31VR	4/5/2021 15:16	Conductivity	516.89	uS/cm
GN-AP-MW-31VR	4/5/2021 15:16	DO	0.62	mg/L
GN-AP-MW-31VR	4/5/2021 15:16	Depth to Water Detail	43.02	ft
GN-AP-MW-31VR	4/5/2021 15:16	Oxidation Reduction Potention	-281.53	mv
GN-AP-MW-31VR	4/5/2021 15:16	pH	8.2	SU
GN-AP-MW-31VR	4/5/2021 15:16	Temperature	21.94	C
GN-AP-MW-31VR	4/5/2021 15:16	Turbidity	1.08	NTU
GN-AP-MW-31VR	4/5/2021 15:21	Conductivity	509.73	uS/cm
GN-AP-MW-31VR	4/5/2021 15:21	DO	0.65	mg/L
GN-AP-MW-31VR	4/5/2021 15:21	Depth to Water Detail	43.16	ft
GN-AP-MW-31VR	4/5/2021 15:21	Oxidation Reduction Potention	-281.07	mv
GN-AP-MW-31VR	4/5/2021 15:21	pH	8.2	SU
GN-AP-MW-31VR	4/5/2021 15:21	Temperature	22.02	C
GN-AP-MW-31VR	4/5/2021 15:21	Turbidity	0.7	NTU
GN-AP-MW-31VR	4/5/2021 15:26	Conductivity	502.01	uS/cm
GN-AP-MW-31VR	4/5/2021 15:26	DO	0.67	mg/L
GN-AP-MW-31VR	4/5/2021 15:26	Depth to Water Detail	43.3	ft
GN-AP-MW-31VR	4/5/2021 15:26	Oxidation Reduction Potention	-279.55	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-31VR	4/5/2021 15:26	pH	8.19	SU
GN-AP-MW-31VR	4/5/2021 15:26	Temperature	22.12	C
GN-AP-MW-31VR	4/5/2021 15:26	Turbidity	1.45	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-9	4/5/2021 10:21	Conductivity	399.32	uS/cm
GN-AP-MW-9	4/5/2021 10:21	DO	1.76	mg/L
GN-AP-MW-9	4/5/2021 10:21	Depth to Water Detail	8.24	ft
GN-AP-MW-9	4/5/2021 10:21	Oxidation Reduction Potention	-126.94	mv
GN-AP-MW-9	4/5/2021 10:21	pH	7.74	SU
GN-AP-MW-9	4/5/2021 10:21	Temperature	19.22	C
GN-AP-MW-9	4/5/2021 10:21	Turbidity	1.33	NTU
GN-AP-MW-9	4/5/2021 10:37	Conductivity	403.52	uS/cm
GN-AP-MW-9	4/5/2021 10:37	DO	0.99	mg/L
GN-AP-MW-9	4/5/2021 10:37	Depth to Water Detail	10.72	ft
GN-AP-MW-9	4/5/2021 10:37	Oxidation Reduction Potention	-139.56	mv
GN-AP-MW-9	4/5/2021 10:37	pH	7.8	SU
GN-AP-MW-9	4/5/2021 10:37	Temperature	19.39	C
GN-AP-MW-9	4/5/2021 10:37	Turbidity	0.61	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-10	4/5/2021 11:56	Conductivity	330.61	uS/cm
GN-AP-MW-10	4/5/2021 11:56	DO	0.99	mg/L
GN-AP-MW-10	4/5/2021 11:56	Depth to Water Detail	6.46	ft
GN-AP-MW-10	4/5/2021 11:56	Oxidation Reduction Potention	-23.91	mv
GN-AP-MW-10	4/5/2021 11:56	pH	6.85	SU
GN-AP-MW-10	4/5/2021 11:56	Temperature	20.29	C
GN-AP-MW-10	4/5/2021 11:56	Turbidity	0.66	NTU
GN-AP-MW-10	4/5/2021 12:01	Conductivity	330.66	uS/cm
GN-AP-MW-10	4/5/2021 12:01	DO	1.52	mg/L
GN-AP-MW-10	4/5/2021 12:01	Depth to Water Detail	7.21	ft
GN-AP-MW-10	4/5/2021 12:01	Oxidation Reduction Potention	-26.54	mv
GN-AP-MW-10	4/5/2021 12:01	pH	6.85	SU
GN-AP-MW-10	4/5/2021 12:01	Temperature	20.28	C
GN-AP-MW-10	4/5/2021 12:01	Turbidity	0.68	NTU
GN-AP-MW-10	4/5/2021 12:06	Conductivity	332.07	uS/cm
GN-AP-MW-10	4/5/2021 12:06	DO	1.6	mg/L
GN-AP-MW-10	4/5/2021 12:06	Depth to Water Detail	7.24	ft
GN-AP-MW-10	4/5/2021 12:06	Oxidation Reduction Potention	-23.47	mv
GN-AP-MW-10	4/5/2021 12:06	pH	6.89	SU
GN-AP-MW-10	4/5/2021 12:06	Temperature	20.45	C
GN-AP-MW-10	4/5/2021 12:06	Turbidity	0.96	NTU
GN-AP-MW-10	4/5/2021 12:11	Conductivity	339.31	uS/cm
GN-AP-MW-10	4/5/2021 12:11	DO	1.62	mg/L
GN-AP-MW-10	4/5/2021 12:11	Depth to Water Detail	7.26	ft
GN-AP-MW-10	4/5/2021 12:11	Oxidation Reduction Potention	-15.42	mv
GN-AP-MW-10	4/5/2021 12:11	pH	6.93	SU
GN-AP-MW-10	4/5/2021 12:11	Temperature	20.44	C
GN-AP-MW-10	4/5/2021 12:11	Turbidity	0.62	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-11	4/5/2021 13:16	Conductivity	356.88	uS/cm
GN-AP-MW-11	4/5/2021 13:16	DO	3	mg/L
GN-AP-MW-11	4/5/2021 13:16	Depth to Water Detail	6.74	ft
GN-AP-MW-11	4/5/2021 13:16	Oxidation Reduction Potention	34.75	mv
GN-AP-MW-11	4/5/2021 13:16	pH	7.23	SU
GN-AP-MW-11	4/5/2021 13:16	Temperature	20.28	C
GN-AP-MW-11	4/5/2021 13:16	Turbidity	0.99	NTU
GN-AP-MW-11	4/5/2021 13:21	Conductivity	352.45	uS/cm
GN-AP-MW-11	4/5/2021 13:21	DO	2.11	mg/L
GN-AP-MW-11	4/5/2021 13:21	Depth to Water Detail	7.72	ft
GN-AP-MW-11	4/5/2021 13:21	Oxidation Reduction Potention	44.55	mv
GN-AP-MW-11	4/5/2021 13:21	pH	7.19	SU
GN-AP-MW-11	4/5/2021 13:21	Temperature	20.21	C
GN-AP-MW-11	4/5/2021 13:21	Turbidity	0.9	NTU
GN-AP-MW-11	4/5/2021 13:26	Conductivity	349.7	uS/cm
GN-AP-MW-11	4/5/2021 13:26	DO	1.47	mg/L
GN-AP-MW-11	4/5/2021 13:26	Depth to Water Detail	8.82	ft
GN-AP-MW-11	4/5/2021 13:26	Oxidation Reduction Potention	44.58	mv
GN-AP-MW-11	4/5/2021 13:26	pH	7.18	SU
GN-AP-MW-11	4/5/2021 13:26	Temperature	20.25	C
GN-AP-MW-11	4/5/2021 13:26	Turbidity	1.2	NTU
GN-AP-MW-11	4/5/2021 13:31	Conductivity	353.47	uS/cm
GN-AP-MW-11	4/5/2021 13:31	DO	1.62	mg/L
GN-AP-MW-11	4/5/2021 13:31	Depth to Water Detail	9.82	ft
GN-AP-MW-11	4/5/2021 13:31	Oxidation Reduction Potention	42.92	mv
GN-AP-MW-11	4/5/2021 13:31	pH	7.3	SU
GN-AP-MW-11	4/5/2021 13:31	Temperature	20.18	C
GN-AP-MW-11	4/5/2021 13:31	Turbidity	0.98	NTU
GN-AP-MW-11	4/5/2021 13:36	Conductivity	362.38	uS/cm
GN-AP-MW-11	4/5/2021 13:36	DO	1.57	mg/L
GN-AP-MW-11	4/5/2021 13:36	Depth to Water Detail	11.19	ft
GN-AP-MW-11	4/5/2021 13:36	Oxidation Reduction Potention	40.16	mv
GN-AP-MW-11	4/5/2021 13:36	pH	7.39	SU
GN-AP-MW-11	4/5/2021 13:36	Temperature	20.08	C
GN-AP-MW-11	4/5/2021 13:36	Turbidity	1.16	NTU
GN-AP-MW-11	4/5/2021 13:41	Conductivity	358.17	uS/cm
GN-AP-MW-11	4/5/2021 13:41	DO	1.53	mg/L
GN-AP-MW-11	4/5/2021 13:41	Depth to Water Detail	13.11	ft
GN-AP-MW-11	4/5/2021 13:41	Oxidation Reduction Potention	40.21	mv
GN-AP-MW-11	4/5/2021 13:41	pH	7.43	SU
GN-AP-MW-11	4/5/2021 13:41	Temperature	20.22	C
GN-AP-MW-11	4/5/2021 13:41	Turbidity	1.22	NTU
GN-AP-MW-11	4/5/2021 13:46	Conductivity	357.87	uS/cm
GN-AP-MW-11	4/5/2021 13:46	DO	2.09	mg/L

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-11	4/5/2021 13:46	Depth to Water Detail	13.11	ft
GN-AP-MW-11	4/5/2021 13:46	Oxidation Reduction Potention	39.58	mv
GN-AP-MW-11	4/5/2021 13:46	pH	7.53	SU
GN-AP-MW-11	4/5/2021 13:46	Temperature	20.82	C
GN-AP-MW-11	4/5/2021 13:46	Turbidity	1.25	NTU
GN-AP-MW-11	4/5/2021 13:51	Conductivity	353.16	uS/cm
GN-AP-MW-11	4/5/2021 13:51	DO	2.26	mg/L
GN-AP-MW-11	4/5/2021 13:51	Depth to Water Detail	13.11	ft
GN-AP-MW-11	4/5/2021 13:51	Oxidation Reduction Potention	39.76	mv
GN-AP-MW-11	4/5/2021 13:51	pH	7.61	SU
GN-AP-MW-11	4/5/2021 13:51	Temperature	20.58	C
GN-AP-MW-11	4/5/2021 13:51	Turbidity	0.91	NTU
GN-AP-MW-11	4/5/2021 13:56	Conductivity	362.22	uS/cm
GN-AP-MW-11	4/5/2021 13:56	DO	2.31	mg/L
GN-AP-MW-11	4/5/2021 13:56	Depth to Water Detail	13.11	ft
GN-AP-MW-11	4/5/2021 13:56	Oxidation Reduction Potention	43.31	mv
GN-AP-MW-11	4/5/2021 13:56	pH	7.61	SU
GN-AP-MW-11	4/5/2021 13:56	Temperature	20.56	C
GN-AP-MW-11	4/5/2021 13:56	Turbidity	0.97	NTU
GN-AP-MW-11	4/5/2021 14:01	Conductivity	369.51	uS/cm
GN-AP-MW-11	4/5/2021 14:01	DO	2.5	mg/L
GN-AP-MW-11	4/5/2021 14:01	Depth to Water Detail	13.11	ft
GN-AP-MW-11	4/5/2021 14:01	Oxidation Reduction Potention	42.42	mv
GN-AP-MW-11	4/5/2021 14:01	pH	7.65	SU
GN-AP-MW-11	4/5/2021 14:01	Temperature	20.63	C
GN-AP-MW-11	4/5/2021 14:01	Turbidity	0.73	NTU
GN-AP-MW-11	4/5/2021 14:06	Conductivity	370.45	uS/cm
GN-AP-MW-11	4/5/2021 14:06	DO	2.67	mg/L
GN-AP-MW-11	4/5/2021 14:06	Depth to Water Detail	13.11	ft
GN-AP-MW-11	4/5/2021 14:06	Oxidation Reduction Potention	43.54	mv
GN-AP-MW-11	4/5/2021 14:06	pH	7.66	SU
GN-AP-MW-11	4/5/2021 14:06	Temperature	20.57	C
GN-AP-MW-11	4/5/2021 14:06	Turbidity	0.57	NTU
GN-AP-MW-11	4/5/2021 14:11	Conductivity	368.81	uS/cm
GN-AP-MW-11	4/5/2021 14:11	DO	2.72	mg/L
GN-AP-MW-11	4/5/2021 14:11	Depth to Water Detail	13.11	ft
GN-AP-MW-11	4/5/2021 14:11	Oxidation Reduction Potention	50.05	mv
GN-AP-MW-11	4/5/2021 14:11	pH	7.63	SU
GN-AP-MW-11	4/5/2021 14:11	Temperature	20.65	C
GN-AP-MW-11	4/5/2021 14:11	Turbidity	0.7	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-12	4/5/2021 15:19	Conductivity	586.75	uS/cm
GN-AP-MW-12	4/5/2021 15:19	DO	0.08	mg/L
GN-AP-MW-12	4/5/2021 15:19	Depth to Water Detail	10.91	ft
GN-AP-MW-12	4/5/2021 15:19	Oxidation Reduction Potention	-71.47	mv
GN-AP-MW-12	4/5/2021 15:19	pH	6.72	SU
GN-AP-MW-12	4/5/2021 15:19	Temperature	20.39	C
GN-AP-MW-12	4/5/2021 15:19	Turbidity	1.58	NTU
GN-AP-MW-12	4/5/2021 15:24	Conductivity	583.28	uS/cm
GN-AP-MW-12	4/5/2021 15:24	DO	0.07	mg/L
GN-AP-MW-12	4/5/2021 15:24	Depth to Water Detail	13.79	ft
GN-AP-MW-12	4/5/2021 15:24	Oxidation Reduction Potention	-76.62	mv
GN-AP-MW-12	4/5/2021 15:24	pH	6.77	SU
GN-AP-MW-12	4/5/2021 15:24	Temperature	20.36	C
GN-AP-MW-12	4/5/2021 15:24	Turbidity	0.97	NTU
GN-AP-MW-12	4/5/2021 15:29	Conductivity	581.85	uS/cm
GN-AP-MW-12	4/5/2021 15:29	DO	0.06	mg/L
GN-AP-MW-12	4/5/2021 15:29	Depth to Water Detail	16.82	ft
GN-AP-MW-12	4/5/2021 15:29	Oxidation Reduction Potention	-79.65	mv
GN-AP-MW-12	4/5/2021 15:29	pH	6.82	SU
GN-AP-MW-12	4/5/2021 15:29	Temperature	20.32	C
GN-AP-MW-12	4/5/2021 15:29	Turbidity	0.99	NTU
GN-AP-MW-12	4/5/2021 15:34	Conductivity	579.42	uS/cm
GN-AP-MW-12	4/5/2021 15:34	DO	0.07	mg/L
GN-AP-MW-12	4/5/2021 15:34	Depth to Water Detail	20.22	ft
GN-AP-MW-12	4/5/2021 15:34	Oxidation Reduction Potention	-81.04	mv
GN-AP-MW-12	4/5/2021 15:34	pH	6.86	SU
GN-AP-MW-12	4/5/2021 15:34	Temperature	20.31	C
GN-AP-MW-12	4/5/2021 15:34	Turbidity	3.01	NTU
GN-AP-MW-12	4/5/2021 15:39	Conductivity	578.25	uS/cm
GN-AP-MW-12	4/5/2021 15:39	DO	0.16	mg/L
GN-AP-MW-12	4/5/2021 15:39	Depth to Water Detail	20.22	ft
GN-AP-MW-12	4/5/2021 15:39	Oxidation Reduction Potention	-79.76	mv
GN-AP-MW-12	4/5/2021 15:39	pH	6.87	SU
GN-AP-MW-12	4/5/2021 15:39	Temperature	21.92	C
GN-AP-MW-12	4/5/2021 15:39	Turbidity	1.63	NTU
GN-AP-MW-12	4/5/2021 15:44	Conductivity	575.48	uS/cm
GN-AP-MW-12	4/5/2021 15:44	DO	0.21	mg/L
GN-AP-MW-12	4/5/2021 15:44	Depth to Water Detail	20.22	ft
GN-AP-MW-12	4/5/2021 15:44	Oxidation Reduction Potention	-78.56	mv
GN-AP-MW-12	4/5/2021 15:44	pH	6.88	SU
GN-AP-MW-12	4/5/2021 15:44	Temperature	22	C
GN-AP-MW-12	4/5/2021 15:44	Turbidity	1.08	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-13	4/6/2021 9:59	Conductivity	397.99	uS/cm
GN-AP-MW-13	4/6/2021 9:59	DO	2.02	mg/L
GN-AP-MW-13	4/6/2021 9:59	Depth to Water Detail	3.38	ft
GN-AP-MW-13	4/6/2021 9:59	Oxidation Reduction Potention	-90.53	mv
GN-AP-MW-13	4/6/2021 9:59	pH	7.45	SU
GN-AP-MW-13	4/6/2021 9:59	Temperature	19.22	C
GN-AP-MW-13	4/6/2021 9:59	Turbidity	3.29	NTU
GN-AP-MW-13	4/6/2021 10:04	Conductivity	394.16	uS/cm
GN-AP-MW-13	4/6/2021 10:04	DO	1.86	mg/L
GN-AP-MW-13	4/6/2021 10:04	Depth to Water Detail	4.13	ft
GN-AP-MW-13	4/6/2021 10:04	Oxidation Reduction Potention	-101.23	mv
GN-AP-MW-13	4/6/2021 10:04	pH	7.46	SU
GN-AP-MW-13	4/6/2021 10:04	Temperature	19.3	C
GN-AP-MW-13	4/6/2021 10:04	Turbidity	2.53	NTU
GN-AP-MW-13	4/6/2021 10:09	Conductivity	390.12	uS/cm
GN-AP-MW-13	4/6/2021 10:09	DO	1.87	mg/L
GN-AP-MW-13	4/6/2021 10:09	Depth to Water Detail	4.79	ft
GN-AP-MW-13	4/6/2021 10:09	Oxidation Reduction Potention	-97.78	mv
GN-AP-MW-13	4/6/2021 10:09	pH	7.48	SU
GN-AP-MW-13	4/6/2021 10:09	Temperature	19.36	C
GN-AP-MW-13	4/6/2021 10:09	Turbidity	2.62	NTU
GN-AP-MW-13	4/6/2021 10:14	Conductivity	390.84	uS/cm
GN-AP-MW-13	4/6/2021 10:14	DO	1.87	mg/L
GN-AP-MW-13	4/6/2021 10:14	Depth to Water Detail	5.31	ft
GN-AP-MW-13	4/6/2021 10:14	Oxidation Reduction Potention	-93.2	mv
GN-AP-MW-13	4/6/2021 10:14	pH	7.49	SU
GN-AP-MW-13	4/6/2021 10:14	Temperature	19.47	C
GN-AP-MW-13	4/6/2021 10:14	Turbidity	2.26	NTU
GN-AP-MW-13	4/6/2021 10:19	Conductivity	390.1	uS/cm
GN-AP-MW-13	4/6/2021 10:19	DO	1.88	mg/L
GN-AP-MW-13	4/6/2021 10:19	Depth to Water Detail	5.59	ft
GN-AP-MW-13	4/6/2021 10:19	Oxidation Reduction Potention	-89.07	mv
GN-AP-MW-13	4/6/2021 10:19	pH	7.49	SU
GN-AP-MW-13	4/6/2021 10:19	Temperature	19.44	C
GN-AP-MW-13	4/6/2021 10:19	Turbidity	2.37	NTU
GN-AP-MW-13	4/6/2021 10:24	Conductivity	387.71	uS/cm
GN-AP-MW-13	4/6/2021 10:24	DO	1.85	mg/L
GN-AP-MW-13	4/6/2021 10:24	Depth to Water Detail	5.84	ft
GN-AP-MW-13	4/6/2021 10:24	Oxidation Reduction Potention	-89.15	mv
GN-AP-MW-13	4/6/2021 10:24	pH	7.5	SU
GN-AP-MW-13	4/6/2021 10:24	Temperature	19.55	C
GN-AP-MW-13	4/6/2021 10:24	Turbidity	2.08	NTU
GN-AP-MW-13	4/6/2021 10:29	Conductivity	388.81	uS/cm
GN-AP-MW-13	4/6/2021 10:29	DO	1.87	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-13	4/6/2021 10:29	Depth to Water Detail	5.98	ft
GN-AP-MW-13	4/6/2021 10:29	Oxidation Reduction Potention	-86.95	mv
GN-AP-MW-13	4/6/2021 10:29	pH	7.46	SU
GN-AP-MW-13	4/6/2021 10:29	Temperature	19.52	C
GN-AP-MW-13	4/6/2021 10:29	Turbidity	1.57	NTU
GN-AP-MW-13	4/6/2021 10:34	Conductivity	384.43	uS/cm
GN-AP-MW-13	4/6/2021 10:34	DO	1.97	mg/L
GN-AP-MW-13	4/6/2021 10:34	Depth to Water Detail	6.13	ft
GN-AP-MW-13	4/6/2021 10:34	Oxidation Reduction Potention	-87.5	mv
GN-AP-MW-13	4/6/2021 10:34	pH	7.5	SU
GN-AP-MW-13	4/6/2021 10:34	Temperature	19.56	C
GN-AP-MW-13	4/6/2021 10:34	Turbidity	1.92	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-14	4/6/2021 11:47	Conductivity	487.66	uS/cm
GN-AP-MW-14	4/6/2021 11:47	DO	0.26	mg/L
GN-AP-MW-14	4/6/2021 11:47	Depth to Water Detail	28.46	ft
GN-AP-MW-14	4/6/2021 11:47	Oxidation Reduction Potention	-122.23	mv
GN-AP-MW-14	4/6/2021 11:47	pH	7.55	SU
GN-AP-MW-14	4/6/2021 11:47	Temperature	21.04	C
GN-AP-MW-14	4/6/2021 11:47	Turbidity	1.25	NTU
GN-AP-MW-14	4/6/2021 11:52	Conductivity	488.91	uS/cm
GN-AP-MW-14	4/6/2021 11:52	DO	0.22	mg/L
GN-AP-MW-14	4/6/2021 11:52	Depth to Water Detail	28.51	ft
GN-AP-MW-14	4/6/2021 11:52	Oxidation Reduction Potention	-126.76	mv
GN-AP-MW-14	4/6/2021 11:52	pH	7.55	SU
GN-AP-MW-14	4/6/2021 11:52	Temperature	21.1	C
GN-AP-MW-14	4/6/2021 11:52	Turbidity	1.05	NTU
GN-AP-MW-14	4/6/2021 11:57	Conductivity	492.25	uS/cm
GN-AP-MW-14	4/6/2021 11:57	DO	0.18	mg/L
GN-AP-MW-14	4/6/2021 11:57	Depth to Water Detail	28.64	ft
GN-AP-MW-14	4/6/2021 11:57	Oxidation Reduction Potention	-129.2	mv
GN-AP-MW-14	4/6/2021 11:57	pH	7.55	SU
GN-AP-MW-14	4/6/2021 11:57	Temperature	21.03	C
GN-AP-MW-14	4/6/2021 11:57	Turbidity	1.07	NTU
GN-AP-MW-14	4/6/2021 12:02	Conductivity	495.25	uS/cm
GN-AP-MW-14	4/6/2021 12:02	DO	0.18	mg/L
GN-AP-MW-14	4/6/2021 12:02	Depth to Water Detail	28.68	ft
GN-AP-MW-14	4/6/2021 12:02	Oxidation Reduction Potention	-127.53	mv
GN-AP-MW-14	4/6/2021 12:02	pH	7.51	SU
GN-AP-MW-14	4/6/2021 12:02	Temperature	21.08	C
GN-AP-MW-14	4/6/2021 12:02	Turbidity	1.19	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-7	4/7/2021 10:49	Conductivity	658.97	uS/cm
GN-AP-MW-7	4/7/2021 10:49	DO	1.56	mg/L
GN-AP-MW-7	4/7/2021 10:49	Depth to Water Detail	5.29	ft
GN-AP-MW-7	4/7/2021 10:49	Oxidation Reduction Potention	152.33	mv
GN-AP-MW-7	4/7/2021 10:49	pH	7.55	SU
GN-AP-MW-7	4/7/2021 10:49	Temperature	18.79	C
GN-AP-MW-7	4/7/2021 10:49	Turbidity	1.75	NTU
GN-AP-MW-7	4/7/2021 10:54	Conductivity	655.68	uS/cm
GN-AP-MW-7	4/7/2021 10:54	DO	1.64	mg/L
GN-AP-MW-7	4/7/2021 10:54	Depth to Water Detail	5.3	ft
GN-AP-MW-7	4/7/2021 10:54	Oxidation Reduction Potention	150.21	mv
GN-AP-MW-7	4/7/2021 10:54	pH	7.52	SU
GN-AP-MW-7	4/7/2021 10:54	Temperature	18.74	C
GN-AP-MW-7	4/7/2021 10:54	Turbidity	1.34	NTU
GN-AP-MW-7	4/7/2021 10:59	Conductivity	658.94	uS/cm
GN-AP-MW-7	4/7/2021 10:59	DO	1.53	mg/L
GN-AP-MW-7	4/7/2021 10:59	Depth to Water Detail	5.31	ft
GN-AP-MW-7	4/7/2021 10:59	Oxidation Reduction Potention	149.07	mv
GN-AP-MW-7	4/7/2021 10:59	pH	7.5	SU
GN-AP-MW-7	4/7/2021 10:59	Temperature	18.85	C
GN-AP-MW-7	4/7/2021 10:59	Turbidity	1.42	NTU
GN-AP-MW-7	4/7/2021 11:04	Conductivity	660.47	uS/cm
GN-AP-MW-7	4/7/2021 11:04	DO	1.73	mg/L
GN-AP-MW-7	4/7/2021 11:04	Depth to Water Detail	5.31	ft
GN-AP-MW-7	4/7/2021 11:04	Oxidation Reduction Potention	145.12	mv
GN-AP-MW-7	4/7/2021 11:04	pH	7.51	SU
GN-AP-MW-7	4/7/2021 11:04	Temperature	18.95	C
GN-AP-MW-7	4/7/2021 11:04	Turbidity	1.07	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-6	4/7/2021 11:53	Conductivity	677.34	uS/cm
GN-AP-MW-6	4/7/2021 11:53	DO	0.36	mg/L
GN-AP-MW-6	4/7/2021 11:53	Depth to Water Detail	11.54	ft
GN-AP-MW-6	4/7/2021 11:53	Oxidation Reduction Potention	35.32	mv
GN-AP-MW-6	4/7/2021 11:53	pH	6.87	SU
GN-AP-MW-6	4/7/2021 11:53	Temperature	19.59	C
GN-AP-MW-6	4/7/2021 11:53	Turbidity	1.09	NTU
GN-AP-MW-6	4/7/2021 11:58	Conductivity	676.29	uS/cm
GN-AP-MW-6	4/7/2021 11:58	DO	0.24	mg/L
GN-AP-MW-6	4/7/2021 11:58	Depth to Water Detail	11.59	ft
GN-AP-MW-6	4/7/2021 11:58	Oxidation Reduction Potention	38.92	mv
GN-AP-MW-6	4/7/2021 11:58	pH	6.92	SU
GN-AP-MW-6	4/7/2021 11:58	Temperature	19.48	C
GN-AP-MW-6	4/7/2021 11:58	Turbidity	1.74	NTU
GN-AP-MW-6	4/7/2021 12:03	Conductivity	679.88	uS/cm
GN-AP-MW-6	4/7/2021 12:03	DO	0.21	mg/L
GN-AP-MW-6	4/7/2021 12:03	Depth to Water Detail	11.59	ft
GN-AP-MW-6	4/7/2021 12:03	Oxidation Reduction Potention	38.34	mv
GN-AP-MW-6	4/7/2021 12:03	pH	6.97	SU
GN-AP-MW-6	4/7/2021 12:03	Temperature	19.45	C
GN-AP-MW-6	4/7/2021 12:03	Turbidity	1.26	NTU
GN-AP-MW-6	4/7/2021 12:08	Conductivity	680.84	uS/cm
GN-AP-MW-6	4/7/2021 12:08	DO	0.19	mg/L
GN-AP-MW-6	4/7/2021 12:08	Depth to Water Detail	11.59	ft
GN-AP-MW-6	4/7/2021 12:08	Oxidation Reduction Potention	36.02	mv
GN-AP-MW-6	4/7/2021 12:08	pH	7.02	SU
GN-AP-MW-6	4/7/2021 12:08	Temperature	19.5	C
GN-AP-MW-6	4/7/2021 12:08	Turbidity	1.15	NTU

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Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-21	4/7/2021 12:46	Conductivity	653.54	uS/cm
GN-AP-MW-21	4/7/2021 12:46	DO	1.76	mg/L
GN-AP-MW-21	4/7/2021 12:46	Depth to Water Detail	14.16	ft
GN-AP-MW-21	4/7/2021 12:46	Oxidation Reduction Potention	54.34	mv
GN-AP-MW-21	4/7/2021 12:46	pH	7.07	SU
GN-AP-MW-21	4/7/2021 12:46	Temperature	19.02	C
GN-AP-MW-21	4/7/2021 12:46	Turbidity	2.93	NTU
GN-AP-MW-21	4/7/2021 12:51	Conductivity	656.59	uS/cm
GN-AP-MW-21	4/7/2021 12:51	DO	1.38	mg/L
GN-AP-MW-21	4/7/2021 12:51	Depth to Water Detail	14.39	ft
GN-AP-MW-21	4/7/2021 12:51	Oxidation Reduction Potention	23.38	mv
GN-AP-MW-21	4/7/2021 12:51	pH	7.08	SU
GN-AP-MW-21	4/7/2021 12:51	Temperature	19.14	C
GN-AP-MW-21	4/7/2021 12:51	Turbidity	3.41	NTU
GN-AP-MW-21	4/7/2021 12:56	Conductivity	658.05	uS/cm
GN-AP-MW-21	4/7/2021 12:56	DO	0.87	mg/L
GN-AP-MW-21	4/7/2021 12:56	Depth to Water Detail	14.39	ft
GN-AP-MW-21	4/7/2021 12:56	Oxidation Reduction Potention	-17.98	mv
GN-AP-MW-21	4/7/2021 12:56	pH	7.13	SU
GN-AP-MW-21	4/7/2021 12:56	Temperature	19.17	C
GN-AP-MW-21	4/7/2021 12:56	Turbidity	2.79	NTU
GN-AP-MW-21	4/7/2021 13:01	Conductivity	662.33	uS/cm
GN-AP-MW-21	4/7/2021 13:01	DO	0.62	mg/L
GN-AP-MW-21	4/7/2021 13:01	Depth to Water Detail	14.39	ft
GN-AP-MW-21	4/7/2021 13:01	Oxidation Reduction Potention	-50.59	mv
GN-AP-MW-21	4/7/2021 13:01	pH	7.2	SU
GN-AP-MW-21	4/7/2021 13:01	Temperature	19.19	C
GN-AP-MW-21	4/7/2021 13:01	Turbidity	1.88	NTU
GN-AP-MW-21	4/7/2021 13:06	Conductivity	668.93	uS/cm
GN-AP-MW-21	4/7/2021 13:06	DO	0.42	mg/L
GN-AP-MW-21	4/7/2021 13:06	Depth to Water Detail	14.39	ft
GN-AP-MW-21	4/7/2021 13:06	Oxidation Reduction Potention	-65.94	mv
GN-AP-MW-21	4/7/2021 13:06	pH	7.24	SU
GN-AP-MW-21	4/7/2021 13:06	Temperature	19.12	C
GN-AP-MW-21	4/7/2021 13:06	Turbidity	1.59	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-22	4/7/2021 13:51	Conductivity	662.52	uS/cm
GN-AP-MW-22	4/7/2021 13:51	DO	0.17	mg/L
GN-AP-MW-22	4/7/2021 13:51	Depth to Water Detail	7.91	ft
GN-AP-MW-22	4/7/2021 13:51	Oxidation Reduction Potention	39.53	mv
GN-AP-MW-22	4/7/2021 13:51	pH	6.67	SU
GN-AP-MW-22	4/7/2021 13:51	Temperature	19.84	C
GN-AP-MW-22	4/7/2021 13:51	Turbidity	1.82	NTU
GN-AP-MW-22	4/7/2021 13:56	Conductivity	661.43	uS/cm
GN-AP-MW-22	4/7/2021 13:56	DO	0.14	mg/L
GN-AP-MW-22	4/7/2021 13:56	Depth to Water Detail	7.91	ft
GN-AP-MW-22	4/7/2021 13:56	Oxidation Reduction Potention	44.15	mv
GN-AP-MW-22	4/7/2021 13:56	pH	6.66	SU
GN-AP-MW-22	4/7/2021 13:56	Temperature	19.82	C
GN-AP-MW-22	4/7/2021 13:56	Turbidity	1.84	NTU
GN-AP-MW-22	4/7/2021 14:01	Conductivity	662.42	uS/cm
GN-AP-MW-22	4/7/2021 14:01	DO	0.13	mg/L
GN-AP-MW-22	4/7/2021 14:01	Depth to Water Detail	7.91	ft
GN-AP-MW-22	4/7/2021 14:01	Oxidation Reduction Potention	46.69	mv
GN-AP-MW-22	4/7/2021 14:01	pH	6.67	SU
GN-AP-MW-22	4/7/2021 14:01	Temperature	19.84	C
GN-AP-MW-22	4/7/2021 14:01	Turbidity	1.9	NTU
GN-AP-MW-22	4/7/2021 14:06	Conductivity	659.5	uS/cm
GN-AP-MW-22	4/7/2021 14:06	DO	0.12	mg/L
GN-AP-MW-22	4/7/2021 14:06	Depth to Water Detail	7.91	ft
GN-AP-MW-22	4/7/2021 14:06	Oxidation Reduction Potention	48.61	mv
GN-AP-MW-22	4/7/2021 14:06	pH	6.7	SU
GN-AP-MW-22	4/7/2021 14:06	Temperature	19.69	C
GN-AP-MW-22	4/7/2021 14:06	Turbidity	1.52	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-8	4/6/2021 13:43	Conductivity	484.76	uS/cm
GN-AP-MW-8	4/6/2021 13:43	DO	2.29	mg/L
GN-AP-MW-8	4/6/2021 13:43	Depth to Water Detail	16.09	ft
GN-AP-MW-8	4/6/2021 13:43	Oxidation Reduction Potention	-89.87	mv
GN-AP-MW-8	4/6/2021 13:43	pH	7.17	SU
GN-AP-MW-8	4/6/2021 13:43	Temperature	21.43	C
GN-AP-MW-8	4/6/2021 13:43	Turbidity	1.06	NTU
GN-AP-MW-8	4/6/2021 13:54	Conductivity	479.51	uS/cm
GN-AP-MW-8	4/6/2021 13:54	DO	1.7	mg/L
GN-AP-MW-8	4/6/2021 13:54	Depth to Water Detail	18.58	ft
GN-AP-MW-8	4/6/2021 13:54	Oxidation Reduction Potention	-95.83	mv
GN-AP-MW-8	4/6/2021 13:54	pH	7.23	SU
GN-AP-MW-8	4/6/2021 13:54	Temperature	21.07	C
GN-AP-MW-8	4/6/2021 13:54	Turbidity	0.82	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20	4/12/2021 15:25	Conductivity	1193.1	uS/cm
GN-AP-MW-20	4/12/2021 15:25	DO	0.29	mg/L
GN-AP-MW-20	4/12/2021 15:25	Depth to Water Detail	9.68	ft
GN-AP-MW-20	4/12/2021 15:25	Oxidation Reduction Potention	-115.7	mv
GN-AP-MW-20	4/12/2021 15:25	pH	7.75	SU
GN-AP-MW-20	4/12/2021 15:25	Temperature	20.31	C
GN-AP-MW-20	4/12/2021 15:25	Turbidity	1.09	NTU
GN-AP-MW-20	4/12/2021 15:30	Conductivity	1191.43	uS/cm
GN-AP-MW-20	4/12/2021 15:30	DO	0.23	mg/L
GN-AP-MW-20	4/12/2021 15:30	Depth to Water Detail	9.87	ft
GN-AP-MW-20	4/12/2021 15:30	Oxidation Reduction Potention	-112.85	mv
GN-AP-MW-20	4/12/2021 15:30	pH	7.65	SU
GN-AP-MW-20	4/12/2021 15:30	Temperature	20.53	C
GN-AP-MW-20	4/12/2021 15:30	Turbidity	0.49	NTU
GN-AP-MW-20	4/12/2021 15:35	Conductivity	1161.77	uS/cm
GN-AP-MW-20	4/12/2021 15:35	DO	1.04	mg/L
GN-AP-MW-20	4/12/2021 15:35	Depth to Water Detail	9.93	ft
GN-AP-MW-20	4/12/2021 15:35	Oxidation Reduction Potention	-119.58	mv
GN-AP-MW-20	4/12/2021 15:35	pH	8.22	SU
GN-AP-MW-20	4/12/2021 15:35	Temperature	20.67	C
GN-AP-MW-20	4/12/2021 15:35	Turbidity	0.41	NTU
GN-AP-MW-20	4/12/2021 15:40	Conductivity	1168.84	uS/cm
GN-AP-MW-20	4/12/2021 15:40	DO	0.84	mg/L
GN-AP-MW-20	4/12/2021 15:40	Depth to Water Detail	9.96	ft
GN-AP-MW-20	4/12/2021 15:40	Oxidation Reduction Potention	-116.24	mv
GN-AP-MW-20	4/12/2021 15:40	pH	8.16	SU
GN-AP-MW-20	4/12/2021 15:40	Temperature	20.44	C
GN-AP-MW-20	4/12/2021 15:40	Turbidity	0.43	NTU
GN-AP-MW-20	4/12/2021 15:45	Conductivity	1171.22	uS/cm
GN-AP-MW-20	4/12/2021 15:45	DO	0.59	mg/L
GN-AP-MW-20	4/12/2021 15:45	Depth to Water Detail	9.98	ft
GN-AP-MW-20	4/12/2021 15:45	Oxidation Reduction Potention	-118.57	mv
GN-AP-MW-20	4/12/2021 15:45	pH	8.04	SU
GN-AP-MW-20	4/12/2021 15:45	Temperature	20.34	C
GN-AP-MW-20	4/12/2021 15:45	Turbidity	0.48	NTU
GN-AP-MW-20	4/12/2021 15:50	Conductivity	1168.63	uS/cm
GN-AP-MW-20	4/12/2021 15:50	DO	0.44	mg/L
GN-AP-MW-20	4/12/2021 15:50	Depth to Water Detail	9.98	ft
GN-AP-MW-20	4/12/2021 15:50	Oxidation Reduction Potention	-118.3	mv
GN-AP-MW-20	4/12/2021 15:50	pH	7.96	SU
GN-AP-MW-20	4/12/2021 15:50	Temperature	20.19	C
GN-AP-MW-20	4/12/2021 15:50	Turbidity	0.45	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20SV	4/12/2021 16:21	Conductivity	1040.55	uS/cm
GN-AP-MW-20SV	4/12/2021 16:21	DO	0.1	mg/L
GN-AP-MW-20SV	4/12/2021 16:21	Depth to Water Detail	11.45	ft
GN-AP-MW-20SV	4/12/2021 16:21	Oxidation Reduction Potention	-146.06	mv
GN-AP-MW-20SV	4/12/2021 16:21	pH	7.12	SU
GN-AP-MW-20SV	4/12/2021 16:21	Temperature	19.38	C
GN-AP-MW-20SV	4/12/2021 16:21	Turbidity	98	NTU
GN-AP-MW-20SV	4/12/2021 16:26	Conductivity	1038.62	uS/cm
GN-AP-MW-20SV	4/12/2021 16:26	DO	0.09	mg/L
GN-AP-MW-20SV	4/12/2021 16:26	Depth to Water Detail	11.65	ft
GN-AP-MW-20SV	4/12/2021 16:26	Oxidation Reduction Potention	-136.73	mv
GN-AP-MW-20SV	4/12/2021 16:26	pH	7.04	SU
GN-AP-MW-20SV	4/12/2021 16:26	Temperature	19.56	C
GN-AP-MW-20SV	4/12/2021 16:26	Turbidity	84.6	NTU
GN-AP-MW-20SV	4/12/2021 16:31	Conductivity	1035.7	uS/cm
GN-AP-MW-20SV	4/12/2021 16:31	DO	0.08	mg/L
GN-AP-MW-20SV	4/12/2021 16:31	Depth to Water Detail	11.8	ft
GN-AP-MW-20SV	4/12/2021 16:31	Oxidation Reduction Potention	-137.99	mv
GN-AP-MW-20SV	4/12/2021 16:31	pH	6.97	SU
GN-AP-MW-20SV	4/12/2021 16:31	Temperature	19.64	C
GN-AP-MW-20SV	4/12/2021 16:31	Turbidity	73.3	NTU
GN-AP-MW-20SV	4/12/2021 16:36	Conductivity	1033.21	uS/cm
GN-AP-MW-20SV	4/12/2021 16:36	DO	0.07	mg/L
GN-AP-MW-20SV	4/12/2021 16:36	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 16:36	Oxidation Reduction Potention	-137.24	mv
GN-AP-MW-20SV	4/12/2021 16:36	pH	6.93	SU
GN-AP-MW-20SV	4/12/2021 16:36	Temperature	19.58	C
GN-AP-MW-20SV	4/12/2021 16:36	Turbidity	60.6	NTU
GN-AP-MW-20SV	4/12/2021 16:41	Conductivity	1032.18	uS/cm
GN-AP-MW-20SV	4/12/2021 16:41	DO	0.07	mg/L
GN-AP-MW-20SV	4/12/2021 16:41	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 16:41	Oxidation Reduction Potention	-137.59	mv
GN-AP-MW-20SV	4/12/2021 16:41	pH	6.92	SU
GN-AP-MW-20SV	4/12/2021 16:41	Temperature	19.54	C
GN-AP-MW-20SV	4/12/2021 16:41	Turbidity	43.7	NTU
GN-AP-MW-20SV	4/12/2021 16:46	Conductivity	1031.13	uS/cm
GN-AP-MW-20SV	4/12/2021 16:46	DO	0.07	mg/L
GN-AP-MW-20SV	4/12/2021 16:46	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 16:46	Oxidation Reduction Potention	-137.38	mv
GN-AP-MW-20SV	4/12/2021 16:46	pH	6.93	SU
GN-AP-MW-20SV	4/12/2021 16:46	Temperature	19.66	C
GN-AP-MW-20SV	4/12/2021 16:46	Turbidity	38.2	NTU
GN-AP-MW-20SV	4/12/2021 16:51	Conductivity	1030.35	uS/cm
GN-AP-MW-20SV	4/12/2021 16:51	DO	0.07	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20SV	4/12/2021 16:51	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 16:51	Oxidation Reduction Potention	-138.9	mv
GN-AP-MW-20SV	4/12/2021 16:51	pH	6.96	SU
GN-AP-MW-20SV	4/12/2021 16:51	Temperature	19.73	C
GN-AP-MW-20SV	4/12/2021 16:51	Turbidity	28.7	NTU
GN-AP-MW-20SV	4/12/2021 16:56	Conductivity	1031.06	uS/cm
GN-AP-MW-20SV	4/12/2021 16:56	DO	0.07	mg/L
GN-AP-MW-20SV	4/12/2021 16:56	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 16:56	Oxidation Reduction Potention	-138.13	mv
GN-AP-MW-20SV	4/12/2021 16:56	pH	6.94	SU
GN-AP-MW-20SV	4/12/2021 16:56	Temperature	19.74	C
GN-AP-MW-20SV	4/12/2021 16:56	Turbidity	22.3	NTU
GN-AP-MW-20SV	4/12/2021 17:01	Conductivity	1028.28	uS/cm
GN-AP-MW-20SV	4/12/2021 17:01	DO	0.07	mg/L
GN-AP-MW-20SV	4/12/2021 17:01	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 17:01	Oxidation Reduction Potention	-138.04	mv
GN-AP-MW-20SV	4/12/2021 17:01	pH	6.93	SU
GN-AP-MW-20SV	4/12/2021 17:01	Temperature	19.58	C
GN-AP-MW-20SV	4/12/2021 17:01	Turbidity	22.1	NTU
GN-AP-MW-20SV	4/12/2021 17:06	Conductivity	1028.5	uS/cm
GN-AP-MW-20SV	4/12/2021 17:06	DO	0.06	mg/L
GN-AP-MW-20SV	4/12/2021 17:06	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 17:06	Oxidation Reduction Potention	-138.34	mv
GN-AP-MW-20SV	4/12/2021 17:06	pH	6.94	SU
GN-AP-MW-20SV	4/12/2021 17:06	Temperature	19.67	C
GN-AP-MW-20SV	4/12/2021 17:06	Turbidity	16.3	NTU
GN-AP-MW-20SV	4/12/2021 17:11	Conductivity	1026.44	uS/cm
GN-AP-MW-20SV	4/12/2021 17:11	DO	0.07	mg/L
GN-AP-MW-20SV	4/12/2021 17:11	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 17:11	Oxidation Reduction Potention	-137.8	mv
GN-AP-MW-20SV	4/12/2021 17:11	pH	6.94	SU
GN-AP-MW-20SV	4/12/2021 17:11	Temperature	19.64	C
GN-AP-MW-20SV	4/12/2021 17:11	Turbidity	14.4	NTU
GN-AP-MW-20SV	4/12/2021 17:16	Conductivity	1029.16	uS/cm
GN-AP-MW-20SV	4/12/2021 17:16	DO	0.07	mg/L
GN-AP-MW-20SV	4/12/2021 17:16	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 17:16	Oxidation Reduction Potention	-138.62	mv
GN-AP-MW-20SV	4/12/2021 17:16	pH	6.96	SU
GN-AP-MW-20SV	4/12/2021 17:16	Temperature	19.65	C
GN-AP-MW-20SV	4/12/2021 17:16	Turbidity	12	NTU
GN-AP-MW-20SV	4/12/2021 17:21	Conductivity	1024.96	uS/cm
GN-AP-MW-20SV	4/12/2021 17:21	DO	0.07	mg/L
GN-AP-MW-20SV	4/12/2021 17:21	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 17:21	Oxidation Reduction Potention	-139.4	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20SV	4/12/2021 17:21	pH	6.97	SU
GN-AP-MW-20SV	4/12/2021 17:21	Temperature	19.62	C
GN-AP-MW-20SV	4/12/2021 17:21	Turbidity	11.8	NTU
GN-AP-MW-20SV	4/12/2021 17:26	Conductivity	1025.29	uS/cm
GN-AP-MW-20SV	4/12/2021 17:26	DO	0.06	mg/L
GN-AP-MW-20SV	4/12/2021 17:26	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 17:26	Oxidation Reduction Potention	-140.2	mv
GN-AP-MW-20SV	4/12/2021 17:26	pH	6.99	SU
GN-AP-MW-20SV	4/12/2021 17:26	Temperature	19.59	C
GN-AP-MW-20SV	4/12/2021 17:26	Turbidity	9.97	NTU
GN-AP-MW-20SV	4/12/2021 17:31	Conductivity	1024.82	uS/cm
GN-AP-MW-20SV	4/12/2021 17:31	DO	0.06	mg/L
GN-AP-MW-20SV	4/12/2021 17:31	Depth to Water Detail	11.85	ft
GN-AP-MW-20SV	4/12/2021 17:31	Oxidation Reduction Potention	-141.02	mv
GN-AP-MW-20SV	4/12/2021 17:31	pH	7.02	SU
GN-AP-MW-20SV	4/12/2021 17:31	Temperature	19.59	C
GN-AP-MW-20SV	4/12/2021 17:31	Turbidity	9.82	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20V	4/12/2021 17:57	Conductivity	1073.04	uS/cm
GN-AP-MW-20V	4/12/2021 17:57	DO	0.27	mg/L
GN-AP-MW-20V	4/12/2021 17:57	Depth to Water Detail	9.4	ft
GN-AP-MW-20V	4/12/2021 17:57	Oxidation Reduction Potention	-225.84	mv
GN-AP-MW-20V	4/12/2021 17:57	pH	8.25	SU
GN-AP-MW-20V	4/12/2021 17:57	Temperature	19.48	C
GN-AP-MW-20V	4/12/2021 17:57	Turbidity	77.9	NTU
GN-AP-MW-20V	4/12/2021 18:02	Conductivity	1071.24	uS/cm
GN-AP-MW-20V	4/12/2021 18:02	DO	0.25	mg/L
GN-AP-MW-20V	4/12/2021 18:02	Depth to Water Detail	9.74	ft
GN-AP-MW-20V	4/12/2021 18:02	Oxidation Reduction Potention	-224.6	mv
GN-AP-MW-20V	4/12/2021 18:02	pH	8.24	SU
GN-AP-MW-20V	4/12/2021 18:02	Temperature	19.38	C
GN-AP-MW-20V	4/12/2021 18:02	Turbidity	46.5	NTU
GN-AP-MW-20V	4/12/2021 18:07	Conductivity	1073.62	uS/cm
GN-AP-MW-20V	4/12/2021 18:07	DO	0.66	mg/L
GN-AP-MW-20V	4/12/2021 18:07	Depth to Water Detail	10.05	ft
GN-AP-MW-20V	4/12/2021 18:07	Oxidation Reduction Potention	-209.98	mv
GN-AP-MW-20V	4/12/2021 18:07	pH	8.23	SU
GN-AP-MW-20V	4/12/2021 18:07	Temperature	19.48	C
GN-AP-MW-20V	4/12/2021 18:07	Turbidity	31	NTU
GN-AP-MW-20V	4/12/2021 18:12	Conductivity	1072.9	uS/cm
GN-AP-MW-20V	4/12/2021 18:12	DO	0.52	mg/L
GN-AP-MW-20V	4/12/2021 18:12	Depth to Water Detail	10.28	ft
GN-AP-MW-20V	4/12/2021 18:12	Oxidation Reduction Potention	-213.36	mv
GN-AP-MW-20V	4/12/2021 18:12	pH	8.22	SU
GN-AP-MW-20V	4/12/2021 18:12	Temperature	19.21	C
GN-AP-MW-20V	4/12/2021 18:12	Turbidity	19	NTU
GN-AP-MW-20V	4/12/2021 18:17	Conductivity	1074.41	uS/cm
GN-AP-MW-20V	4/12/2021 18:17	DO	0.5	mg/L
GN-AP-MW-20V	4/12/2021 18:17	Depth to Water Detail	10.44	ft
GN-AP-MW-20V	4/12/2021 18:17	Oxidation Reduction Potention	-212.04	mv
GN-AP-MW-20V	4/12/2021 18:17	pH	8.2	SU
GN-AP-MW-20V	4/12/2021 18:17	Temperature	19.22	C
GN-AP-MW-20V	4/12/2021 18:17	Turbidity	21.6	NTU
GN-AP-MW-20V	4/12/2021 18:22	Conductivity	1074.92	uS/cm
GN-AP-MW-20V	4/12/2021 18:22	DO	0.46	mg/L
GN-AP-MW-20V	4/12/2021 18:22	Depth to Water Detail	10.6	ft
GN-AP-MW-20V	4/12/2021 18:22	Oxidation Reduction Potention	-210.98	mv
GN-AP-MW-20V	4/12/2021 18:22	pH	8.19	SU
GN-AP-MW-20V	4/12/2021 18:22	Temperature	19.25	C
GN-AP-MW-20V	4/12/2021 18:22	Turbidity	18.7	NTU
GN-AP-MW-20V	4/12/2021 18:27	Conductivity	1074.35	uS/cm
GN-AP-MW-20V	4/12/2021 18:27	DO	0.37	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20V	4/12/2021 18:27	Depth to Water Detail	10.73	ft
GN-AP-MW-20V	4/12/2021 18:27	Oxidation Reduction Potention	-212.07	mv
GN-AP-MW-20V	4/12/2021 18:27	pH	8.18	SU
GN-AP-MW-20V	4/12/2021 18:27	Temperature	19.28	C
GN-AP-MW-20V	4/12/2021 18:27	Turbidity	16.3	NTU
GN-AP-MW-20V	4/12/2021 18:32	Conductivity	1074.34	uS/cm
GN-AP-MW-20V	4/12/2021 18:32	DO	0.7	mg/L
GN-AP-MW-20V	4/12/2021 18:32	Depth to Water Detail	10.83	ft
GN-AP-MW-20V	4/12/2021 18:32	Oxidation Reduction Potention	-202.14	mv
GN-AP-MW-20V	4/12/2021 18:32	pH	8.18	SU
GN-AP-MW-20V	4/12/2021 18:32	Temperature	19.16	C
GN-AP-MW-20V	4/12/2021 18:32	Turbidity	14.4	NTU
GN-AP-MW-20V	4/12/2021 18:37	Conductivity	1073.93	uS/cm
GN-AP-MW-20V	4/12/2021 18:37	DO	0.59	mg/L
GN-AP-MW-20V	4/12/2021 18:37	Depth to Water Detail	10.89	ft
GN-AP-MW-20V	4/12/2021 18:37	Oxidation Reduction Potention	-204.23	mv
GN-AP-MW-20V	4/12/2021 18:37	pH	8.17	SU
GN-AP-MW-20V	4/12/2021 18:37	Temperature	19.12	C
GN-AP-MW-20V	4/12/2021 18:37	Turbidity	13.6	NTU
GN-AP-MW-20V	4/12/2021 18:42	Conductivity	1070.81	uS/cm
GN-AP-MW-20V	4/12/2021 18:42	DO	0.41	mg/L
GN-AP-MW-20V	4/12/2021 18:42	Depth to Water Detail	10.94	ft
GN-AP-MW-20V	4/12/2021 18:42	Oxidation Reduction Potention	-207.12	mv
GN-AP-MW-20V	4/12/2021 18:42	pH	8.16	SU
GN-AP-MW-20V	4/12/2021 18:42	Temperature	19.17	C
GN-AP-MW-20V	4/12/2021 18:42	Turbidity	12.5	NTU
GN-AP-MW-20V	4/12/2021 18:47	Conductivity	1067.6	uS/cm
GN-AP-MW-20V	4/12/2021 18:47	DO	0.36	mg/L
GN-AP-MW-20V	4/12/2021 18:47	Depth to Water Detail	10.96	ft
GN-AP-MW-20V	4/12/2021 18:47	Oxidation Reduction Potention	-208.18	mv
GN-AP-MW-20V	4/12/2021 18:47	pH	8.15	SU
GN-AP-MW-20V	4/12/2021 18:47	Temperature	19.16	C
GN-AP-MW-20V	4/12/2021 18:47	Turbidity	11.21	NTU
GN-AP-MW-20V	4/12/2021 18:52	Conductivity	1068.62	uS/cm
GN-AP-MW-20V	4/12/2021 18:52	DO	0.36	mg/L
GN-AP-MW-20V	4/12/2021 18:52	Depth to Water Detail	10.99	ft
GN-AP-MW-20V	4/12/2021 18:52	Oxidation Reduction Potention	-207.34	mv
GN-AP-MW-20V	4/12/2021 18:52	pH	8.15	SU
GN-AP-MW-20V	4/12/2021 18:52	Temperature	19.15	C
GN-AP-MW-20V	4/12/2021 18:52	Turbidity	10.83	NTU
GN-AP-MW-20V	4/12/2021 18:57	Conductivity	1074.76	uS/cm
GN-AP-MW-20V	4/12/2021 18:57	DO	0.35	mg/L
GN-AP-MW-20V	4/12/2021 18:57	Depth to Water Detail	11.02	ft
GN-AP-MW-20V	4/12/2021 18:57	Oxidation Reduction Potention	-206.2	mv

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20V	4/12/2021 18:57	pH	8.14	SU
GN-AP-MW-20V	4/12/2021 18:57	Temperature	19.12	C
GN-AP-MW-20V	4/12/2021 18:57	Turbidity	9.54	NTU

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Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-39	4/12/2021 9:45	Conductivity	252.21	uS/cm
GN-AP-MW-39	4/12/2021 9:45	DO	0.86	mg/L
GN-AP-MW-39	4/12/2021 9:45	Depth to Water Detail	14.96	ft
GN-AP-MW-39	4/12/2021 9:45	Oxidation Reduction Potention	-112.81	mv
GN-AP-MW-39	4/12/2021 9:45	pH	7.14	SU
GN-AP-MW-39	4/12/2021 9:45	Temperature	17.82	C
GN-AP-MW-39	4/12/2021 9:45	Turbidity	1.68	NTU
GN-AP-MW-39	4/12/2021 9:50	Conductivity	251.39	uS/cm
GN-AP-MW-39	4/12/2021 9:50	DO	1.17	mg/L
GN-AP-MW-39	4/12/2021 9:50	Depth to Water Detail	14.96	ft
GN-AP-MW-39	4/12/2021 9:50	Oxidation Reduction Potention	-106.49	mv
GN-AP-MW-39	4/12/2021 9:50	pH	7.12	SU
GN-AP-MW-39	4/12/2021 9:50	Temperature	18.36	C
GN-AP-MW-39	4/12/2021 9:50	Turbidity	1.71	NTU
GN-AP-MW-39	4/12/2021 9:55	Conductivity	253.24	uS/cm
GN-AP-MW-39	4/12/2021 9:55	DO	1.72	mg/L
GN-AP-MW-39	4/12/2021 9:55	Depth to Water Detail	14.96	ft
GN-AP-MW-39	4/12/2021 9:55	Oxidation Reduction Potention	-96.88	mv
GN-AP-MW-39	4/12/2021 9:55	pH	7.1	SU
GN-AP-MW-39	4/12/2021 9:55	Temperature	18.76	C
GN-AP-MW-39	4/12/2021 9:55	Turbidity	1.62	NTU
GN-AP-MW-39	4/12/2021 10:00	Conductivity	246.55	uS/cm
GN-AP-MW-39	4/12/2021 10:00	DO	0.63	mg/L
GN-AP-MW-39	4/12/2021 10:00	Depth to Water Detail	14.96	ft
GN-AP-MW-39	4/12/2021 10:00	Oxidation Reduction Potention	-117.74	mv
GN-AP-MW-39	4/12/2021 10:00	pH	7.11	SU
GN-AP-MW-39	4/12/2021 10:00	Temperature	17.98	C
GN-AP-MW-39	4/12/2021 10:00	Turbidity	1.7	NTU
GN-AP-MW-39	4/12/2021 10:05	Conductivity	251.69	uS/cm
GN-AP-MW-39	4/12/2021 10:05	DO	0.24	mg/L
GN-AP-MW-39	4/12/2021 10:05	Depth to Water Detail	14.96	ft
GN-AP-MW-39	4/12/2021 10:05	Oxidation Reduction Potention	-131.19	mv
GN-AP-MW-39	4/12/2021 10:05	pH	7.09	SU
GN-AP-MW-39	4/12/2021 10:05	Temperature	17.98	C
GN-AP-MW-39	4/12/2021 10:05	Turbidity	1.62	NTU

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Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-38	4/12/2021 14:05	Conductivity	228.57	uS/cm
GN-AP-MW-38	4/12/2021 14:05	DO	3.24	mg/L
GN-AP-MW-38	4/12/2021 14:05	Depth to Water Detail	5.88	ft
GN-AP-MW-38	4/12/2021 14:05	Oxidation Reduction Potention	137.68	mv
GN-AP-MW-38	4/12/2021 14:05	pH	7.49	SU
GN-AP-MW-38	4/12/2021 14:05	Temperature	18.07	C
GN-AP-MW-38	4/12/2021 14:05	Turbidity	14.4	NTU
GN-AP-MW-38	4/12/2021 14:10	Conductivity	225.99	uS/cm
GN-AP-MW-38	4/12/2021 14:10	DO	3.57	mg/L
GN-AP-MW-38	4/12/2021 14:10	Depth to Water Detail	6.09	ft
GN-AP-MW-38	4/12/2021 14:10	Oxidation Reduction Potention	123.61	mv
GN-AP-MW-38	4/12/2021 14:10	pH	7.56	SU
GN-AP-MW-38	4/12/2021 14:10	Temperature	18.12	C
GN-AP-MW-38	4/12/2021 14:10	Turbidity	80.5	NTU
GN-AP-MW-38	4/12/2021 14:15	Conductivity	225.05	uS/cm
GN-AP-MW-38	4/12/2021 14:15	DO	3.75	mg/L
GN-AP-MW-38	4/12/2021 14:15	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 14:15	Oxidation Reduction Potention	111.85	mv
GN-AP-MW-38	4/12/2021 14:15	pH	7.66	SU
GN-AP-MW-38	4/12/2021 14:15	Temperature	18.23	C
GN-AP-MW-38	4/12/2021 14:15	Turbidity	77.9	NTU
GN-AP-MW-38	4/12/2021 14:20	Conductivity	225.32	uS/cm
GN-AP-MW-38	4/12/2021 14:20	DO	3.79	mg/L
GN-AP-MW-38	4/12/2021 14:20	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 14:20	Oxidation Reduction Potention	101.57	mv
GN-AP-MW-38	4/12/2021 14:20	pH	7.77	SU
GN-AP-MW-38	4/12/2021 14:20	Temperature	18.28	C
GN-AP-MW-38	4/12/2021 14:20	Turbidity	57.1	NTU
GN-AP-MW-38	4/12/2021 14:25	Conductivity	226.42	uS/cm
GN-AP-MW-38	4/12/2021 14:25	DO	3.78	mg/L
GN-AP-MW-38	4/12/2021 14:25	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 14:25	Oxidation Reduction Potention	94.09	mv
GN-AP-MW-38	4/12/2021 14:25	pH	7.84	SU
GN-AP-MW-38	4/12/2021 14:25	Temperature	18.32	C
GN-AP-MW-38	4/12/2021 14:25	Turbidity	53.8	NTU
GN-AP-MW-38	4/12/2021 14:30	Conductivity	225.9	uS/cm
GN-AP-MW-38	4/12/2021 14:30	DO	3.74	mg/L
GN-AP-MW-38	4/12/2021 14:30	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 14:30	Oxidation Reduction Potention	88.48	mv
GN-AP-MW-38	4/12/2021 14:30	pH	7.88	SU
GN-AP-MW-38	4/12/2021 14:30	Temperature	18.3	C
GN-AP-MW-38	4/12/2021 14:30	Turbidity	45.8	NTU
GN-AP-MW-38	4/12/2021 14:35	Conductivity	227.77	uS/cm
GN-AP-MW-38	4/12/2021 14:35	DO	3.75	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-38	4/12/2021 14:35	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 14:35	Oxidation Reduction Potention	83.75	mv
GN-AP-MW-38	4/12/2021 14:35	pH	7.9	SU
GN-AP-MW-38	4/12/2021 14:35	Temperature	18.22	C
GN-AP-MW-38	4/12/2021 14:35	Turbidity	41.3	NTU
GN-AP-MW-38	4/12/2021 14:40	Conductivity	229.12	uS/cm
GN-AP-MW-38	4/12/2021 14:40	DO	3.73	mg/L
GN-AP-MW-38	4/12/2021 14:40	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 14:40	Oxidation Reduction Potention	79.37	mv
GN-AP-MW-38	4/12/2021 14:40	pH	7.92	SU
GN-AP-MW-38	4/12/2021 14:40	Temperature	18.22	C
GN-AP-MW-38	4/12/2021 14:40	Turbidity	34.3	NTU
GN-AP-MW-38	4/12/2021 14:45	Conductivity	229.75	uS/cm
GN-AP-MW-38	4/12/2021 14:45	DO	3.72	mg/L
GN-AP-MW-38	4/12/2021 14:45	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 14:45	Oxidation Reduction Potention	75.01	mv
GN-AP-MW-38	4/12/2021 14:45	pH	7.94	SU
GN-AP-MW-38	4/12/2021 14:45	Temperature	18.3	C
GN-AP-MW-38	4/12/2021 14:45	Turbidity	32.7	NTU
GN-AP-MW-38	4/12/2021 14:50	Conductivity	230.61	uS/cm
GN-AP-MW-38	4/12/2021 14:50	DO	3.75	mg/L
GN-AP-MW-38	4/12/2021 14:50	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 14:50	Oxidation Reduction Potention	71.07	mv
GN-AP-MW-38	4/12/2021 14:50	pH	7.96	SU
GN-AP-MW-38	4/12/2021 14:50	Temperature	18.35	C
GN-AP-MW-38	4/12/2021 14:50	Turbidity	28.8	NTU
GN-AP-MW-38	4/12/2021 14:55	Conductivity	232.46	uS/cm
GN-AP-MW-38	4/12/2021 14:55	DO	3.75	mg/L
GN-AP-MW-38	4/12/2021 14:55	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 14:55	Oxidation Reduction Potention	70.28	mv
GN-AP-MW-38	4/12/2021 14:55	pH	7.92	SU
GN-AP-MW-38	4/12/2021 14:55	Temperature	18.37	C
GN-AP-MW-38	4/12/2021 14:55	Turbidity	25.3	NTU
GN-AP-MW-38	4/12/2021 15:00	Conductivity	231.47	uS/cm
GN-AP-MW-38	4/12/2021 15:00	DO	3.75	mg/L
GN-AP-MW-38	4/12/2021 15:00	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:00	Oxidation Reduction Potention	67.74	mv
GN-AP-MW-38	4/12/2021 15:00	pH	7.91	SU
GN-AP-MW-38	4/12/2021 15:00	Temperature	18.27	C
GN-AP-MW-38	4/12/2021 15:00	Turbidity	22.5	NTU
GN-AP-MW-38	4/12/2021 15:05	Conductivity	232.44	uS/cm
GN-AP-MW-38	4/12/2021 15:05	DO	3.8	mg/L
GN-AP-MW-38	4/12/2021 15:05	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:05	Oxidation Reduction Potention	64.46	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-38	4/12/2021 15:05	pH	7.93	SU
GN-AP-MW-38	4/12/2021 15:05	Temperature	18.22	C
GN-AP-MW-38	4/12/2021 15:05	Turbidity	22.9	NTU
GN-AP-MW-38	4/12/2021 15:10	Conductivity	232.45	uS/cm
GN-AP-MW-38	4/12/2021 15:10	DO	3.84	mg/L
GN-AP-MW-38	4/12/2021 15:10	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:10	Oxidation Reduction Potention	61.02	mv
GN-AP-MW-38	4/12/2021 15:10	pH	7.94	SU
GN-AP-MW-38	4/12/2021 15:10	Temperature	18.34	C
GN-AP-MW-38	4/12/2021 15:10	Turbidity	21.9	NTU
GN-AP-MW-38	4/12/2021 15:15	Conductivity	231.84	uS/cm
GN-AP-MW-38	4/12/2021 15:15	DO	3.98	mg/L
GN-AP-MW-38	4/12/2021 15:15	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:15	Oxidation Reduction Potention	58.63	mv
GN-AP-MW-38	4/12/2021 15:15	pH	7.95	SU
GN-AP-MW-38	4/12/2021 15:15	Temperature	18.35	C
GN-AP-MW-38	4/12/2021 15:15	Turbidity	22.3	NTU
GN-AP-MW-38	4/12/2021 15:20	Conductivity	231.48	uS/cm
GN-AP-MW-38	4/12/2021 15:20	DO	4.1	mg/L
GN-AP-MW-38	4/12/2021 15:20	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:20	Oxidation Reduction Potention	57	mv
GN-AP-MW-38	4/12/2021 15:20	pH	7.95	SU
GN-AP-MW-38	4/12/2021 15:20	Temperature	18.39	C
GN-AP-MW-38	4/12/2021 15:20	Turbidity	21.1	NTU
GN-AP-MW-38	4/12/2021 15:25	Conductivity	231.36	uS/cm
GN-AP-MW-38	4/12/2021 15:25	DO	4.17	mg/L
GN-AP-MW-38	4/12/2021 15:25	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:25	Oxidation Reduction Potention	56.21	mv
GN-AP-MW-38	4/12/2021 15:25	pH	7.94	SU
GN-AP-MW-38	4/12/2021 15:25	Temperature	18.39	C
GN-AP-MW-38	4/12/2021 15:25	Turbidity	19.8	NTU
GN-AP-MW-38	4/12/2021 15:30	Conductivity	231.67	uS/cm
GN-AP-MW-38	4/12/2021 15:30	DO	4.17	mg/L
GN-AP-MW-38	4/12/2021 15:30	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:30	Oxidation Reduction Potention	57.15	mv
GN-AP-MW-38	4/12/2021 15:30	pH	7.89	SU
GN-AP-MW-38	4/12/2021 15:30	Temperature	18.28	C
GN-AP-MW-38	4/12/2021 15:30	Turbidity	21.6	NTU
GN-AP-MW-38	4/12/2021 15:35	Conductivity	231.79	uS/cm
GN-AP-MW-38	4/12/2021 15:35	DO	4.25	mg/L
GN-AP-MW-38	4/12/2021 15:35	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:35	Oxidation Reduction Potention	54.8	mv
GN-AP-MW-38	4/12/2021 15:35	pH	7.9	SU
GN-AP-MW-38	4/12/2021 15:35	Temperature	18.24	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-38	4/12/2021 15:35	Turbidity	20.1	NTU
GN-AP-MW-38	4/12/2021 15:40	Conductivity	232.97	uS/cm
GN-AP-MW-38	4/12/2021 15:40	DO	4.25	mg/L
GN-AP-MW-38	4/12/2021 15:40	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:40	Oxidation Reduction Potention	52.84	mv
GN-AP-MW-38	4/12/2021 15:40	pH	7.92	SU
GN-AP-MW-38	4/12/2021 15:40	Temperature	18.29	C
GN-AP-MW-38	4/12/2021 15:40	Turbidity	20.2	NTU
GN-AP-MW-38	4/12/2021 15:45	Conductivity	232.44	uS/cm
GN-AP-MW-38	4/12/2021 15:45	DO	4.29	mg/L
GN-AP-MW-38	4/12/2021 15:45	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:45	Oxidation Reduction Potention	50.96	mv
GN-AP-MW-38	4/12/2021 15:45	pH	7.93	SU
GN-AP-MW-38	4/12/2021 15:45	Temperature	18.31	C
GN-AP-MW-38	4/12/2021 15:45	Turbidity	18	NTU
GN-AP-MW-38	4/12/2021 15:50	Conductivity	232.31	uS/cm
GN-AP-MW-38	4/12/2021 15:50	DO	4.32	mg/L
GN-AP-MW-38	4/12/2021 15:50	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:50	Oxidation Reduction Potention	49.74	mv
GN-AP-MW-38	4/12/2021 15:50	pH	7.93	SU
GN-AP-MW-38	4/12/2021 15:50	Temperature	18.32	C
GN-AP-MW-38	4/12/2021 15:50	Turbidity	19.5	NTU
GN-AP-MW-38	4/12/2021 15:55	Conductivity	233.01	uS/cm
GN-AP-MW-38	4/12/2021 15:55	DO	4.37	mg/L
GN-AP-MW-38	4/12/2021 15:55	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 15:55	Oxidation Reduction Potention	49.15	mv
GN-AP-MW-38	4/12/2021 15:55	pH	7.94	SU
GN-AP-MW-38	4/12/2021 15:55	Temperature	18.3	C
GN-AP-MW-38	4/12/2021 15:55	Turbidity	17.5	NTU
GN-AP-MW-38	4/12/2021 16:00	Conductivity	232.18	uS/cm
GN-AP-MW-38	4/12/2021 16:00	DO	4.38	mg/L
GN-AP-MW-38	4/12/2021 16:00	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:00	Oxidation Reduction Potention	51.71	mv
GN-AP-MW-38	4/12/2021 16:00	pH	7.88	SU
GN-AP-MW-38	4/12/2021 16:00	Temperature	18.36	C
GN-AP-MW-38	4/12/2021 16:00	Turbidity	16.4	NTU
GN-AP-MW-38	4/12/2021 16:05	Conductivity	231.53	uS/cm
GN-AP-MW-38	4/12/2021 16:05	DO	4.43	mg/L
GN-AP-MW-38	4/12/2021 16:05	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:05	Oxidation Reduction Potention	50.83	mv
GN-AP-MW-38	4/12/2021 16:05	pH	7.89	SU
GN-AP-MW-38	4/12/2021 16:05	Temperature	18.22	C
GN-AP-MW-38	4/12/2021 16:05	Turbidity	15.5	NTU
GN-AP-MW-38	4/12/2021 16:10	Conductivity	231.92	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-38	4/12/2021 16:10	DO	4.47	mg/L
GN-AP-MW-38	4/12/2021 16:10	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:10	Oxidation Reduction Potention	48.32	mv
GN-AP-MW-38	4/12/2021 16:10	pH	7.92	SU
GN-AP-MW-38	4/12/2021 16:10	Temperature	18.28	C
GN-AP-MW-38	4/12/2021 16:10	Turbidity	14.2	NTU
GN-AP-MW-38	4/12/2021 16:15	Conductivity	231.73	uS/cm
GN-AP-MW-38	4/12/2021 16:15	DO	4.48	mg/L
GN-AP-MW-38	4/12/2021 16:15	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:15	Oxidation Reduction Potention	47.38	mv
GN-AP-MW-38	4/12/2021 16:15	pH	7.93	SU
GN-AP-MW-38	4/12/2021 16:15	Temperature	18.33	C
GN-AP-MW-38	4/12/2021 16:15	Turbidity	14.1	NTU
GN-AP-MW-38	4/12/2021 16:20	Conductivity	231.89	uS/cm
GN-AP-MW-38	4/12/2021 16:20	DO	4.51	mg/L
GN-AP-MW-38	4/12/2021 16:20	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:20	Oxidation Reduction Potention	47.11	mv
GN-AP-MW-38	4/12/2021 16:20	pH	7.94	SU
GN-AP-MW-38	4/12/2021 16:20	Temperature	18.34	C
GN-AP-MW-38	4/12/2021 16:20	Turbidity	13.9	NTU
GN-AP-MW-38	4/12/2021 16:25	Conductivity	232.1	uS/cm
GN-AP-MW-38	4/12/2021 16:25	DO	4.53	mg/L
GN-AP-MW-38	4/12/2021 16:25	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:25	Oxidation Reduction Potention	46	mv
GN-AP-MW-38	4/12/2021 16:25	pH	7.96	SU
GN-AP-MW-38	4/12/2021 16:25	Temperature	18.37	C
GN-AP-MW-38	4/12/2021 16:25	Turbidity	14.1	NTU
GN-AP-MW-38	4/12/2021 16:30	Conductivity	232.65	uS/cm
GN-AP-MW-38	4/12/2021 16:30	DO	4.52	mg/L
GN-AP-MW-38	4/12/2021 16:30	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:30	Oxidation Reduction Potention	48.61	mv
GN-AP-MW-38	4/12/2021 16:30	pH	7.91	SU
GN-AP-MW-38	4/12/2021 16:30	Temperature	18.43	C
GN-AP-MW-38	4/12/2021 16:30	Turbidity	12.4	NTU
GN-AP-MW-38	4/12/2021 16:35	Conductivity	231.3	uS/cm
GN-AP-MW-38	4/12/2021 16:35	DO	4.59	mg/L
GN-AP-MW-38	4/12/2021 16:35	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:35	Oxidation Reduction Potention	47.96	mv
GN-AP-MW-38	4/12/2021 16:35	pH	7.9	SU
GN-AP-MW-38	4/12/2021 16:35	Temperature	18.26	C
GN-AP-MW-38	4/12/2021 16:35	Turbidity	12.3	NTU
GN-AP-MW-38	4/12/2021 16:40	Conductivity	232.16	uS/cm
GN-AP-MW-38	4/12/2021 16:40	DO	4.59	mg/L
GN-AP-MW-38	4/12/2021 16:40	Depth to Water Detail	6.12	ft

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-38	4/12/2021 16:40	Oxidation Reduction Potention	46.17	mv
GN-AP-MW-38	4/12/2021 16:40	pH	7.94	SU
GN-AP-MW-38	4/12/2021 16:40	Temperature	18.24	C
GN-AP-MW-38	4/12/2021 16:40	Turbidity	12.9	NTU
GN-AP-MW-38	4/12/2021 16:45	Conductivity	231.64	uS/cm
GN-AP-MW-38	4/12/2021 16:45	DO	4.62	mg/L
GN-AP-MW-38	4/12/2021 16:45	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:45	Oxidation Reduction Potention	45.46	mv
GN-AP-MW-38	4/12/2021 16:45	pH	7.95	SU
GN-AP-MW-38	4/12/2021 16:45	Temperature	18.27	C
GN-AP-MW-38	4/12/2021 16:45	Turbidity	11.3	NTU
GN-AP-MW-38	4/12/2021 16:50	Conductivity	231.39	uS/cm
GN-AP-MW-38	4/12/2021 16:50	DO	4.62	mg/L
GN-AP-MW-38	4/12/2021 16:50	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:50	Oxidation Reduction Potention	44.96	mv
GN-AP-MW-38	4/12/2021 16:50	pH	7.96	SU
GN-AP-MW-38	4/12/2021 16:50	Temperature	18.39	C
GN-AP-MW-38	4/12/2021 16:50	Turbidity	11.6	NTU
GN-AP-MW-38	4/12/2021 16:55	Conductivity	232.04	uS/cm
GN-AP-MW-38	4/12/2021 16:55	DO	4.65	mg/L
GN-AP-MW-38	4/12/2021 16:55	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 16:55	Oxidation Reduction Potention	44.63	mv
GN-AP-MW-38	4/12/2021 16:55	pH	7.97	SU
GN-AP-MW-38	4/12/2021 16:55	Temperature	18.4	C
GN-AP-MW-38	4/12/2021 16:55	Turbidity	12.4	NTU
GN-AP-MW-38	4/12/2021 17:00	Conductivity	233.21	uS/cm
GN-AP-MW-38	4/12/2021 17:00	DO	4.6	mg/L
GN-AP-MW-38	4/12/2021 17:00	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 17:00	Oxidation Reduction Potention	47.31	mv
GN-AP-MW-38	4/12/2021 17:00	pH	7.92	SU
GN-AP-MW-38	4/12/2021 17:00	Temperature	18.38	C
GN-AP-MW-38	4/12/2021 17:00	Turbidity	11.1	NTU
GN-AP-MW-38	4/12/2021 17:05	Conductivity	231.23	uS/cm
GN-AP-MW-38	4/12/2021 17:05	DO	4.75	mg/L
GN-AP-MW-38	4/12/2021 17:05	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 17:05	Oxidation Reduction Potention	46.77	mv
GN-AP-MW-38	4/12/2021 17:05	pH	7.95	SU
GN-AP-MW-38	4/12/2021 17:05	Temperature	18.58	C
GN-AP-MW-38	4/12/2021 17:05	Turbidity	11.1	NTU
GN-AP-MW-38	4/12/2021 17:10	Conductivity	230.61	uS/cm
GN-AP-MW-38	4/12/2021 17:10	DO	4.77	mg/L
GN-AP-MW-38	4/12/2021 17:10	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 17:10	Oxidation Reduction Potention	47.05	mv
GN-AP-MW-38	4/12/2021 17:10	pH	7.96	SU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-38	4/12/2021 17:10	Temperature	18.64	C
GN-AP-MW-38	4/12/2021 17:10	Turbidity	11.95	NTU
GN-AP-MW-38	4/12/2021 17:15	Conductivity	231.4	uS/cm
GN-AP-MW-38	4/12/2021 17:15	DO	4.77	mg/L
GN-AP-MW-38	4/12/2021 17:15	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 17:15	Oxidation Reduction Potential	47.96	mv
GN-AP-MW-38	4/12/2021 17:15	pH	7.98	SU
GN-AP-MW-38	4/12/2021 17:15	Temperature	18.65	C
GN-AP-MW-38	4/12/2021 17:15	Turbidity	11.23	NTU
GN-AP-MW-38	4/12/2021 17:20	Conductivity	232.03	uS/cm
GN-AP-MW-38	4/12/2021 17:20	DO	4.78	mg/L
GN-AP-MW-38	4/12/2021 17:20	Depth to Water Detail	6.12	ft
GN-AP-MW-38	4/12/2021 17:20	Oxidation Reduction Potential	48.89	mv
GN-AP-MW-38	4/12/2021 17:20	pH	7.99	SU
GN-AP-MW-38	4/12/2021 17:20	Temperature	18.78	C
GN-AP-MW-38	4/12/2021 17:20	Turbidity	9.48	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-40	4/12/2021 10:29	Conductivity	218.48	uS/cm
GN-AP-MW-40	4/12/2021 10:29	DO	4.13	mg/L
GN-AP-MW-40	4/12/2021 10:29	Depth to Water Detail	13.51	ft
GN-AP-MW-40	4/12/2021 10:29	Oxidation Reduction Potention	88.51	mv
GN-AP-MW-40	4/12/2021 10:29	pH	7.94	SU
GN-AP-MW-40	4/12/2021 10:29	Temperature	18.33	C
GN-AP-MW-40	4/12/2021 10:29	Turbidity	20.4	NTU
GN-AP-MW-40	4/12/2021 10:34	Conductivity	218.14	uS/cm
GN-AP-MW-40	4/12/2021 10:34	DO	4.12	mg/L
GN-AP-MW-40	4/12/2021 10:34	Depth to Water Detail	13.53	ft
GN-AP-MW-40	4/12/2021 10:34	Oxidation Reduction Potention	84.96	mv
GN-AP-MW-40	4/12/2021 10:34	pH	7.94	SU
GN-AP-MW-40	4/12/2021 10:34	Temperature	18.41	C
GN-AP-MW-40	4/12/2021 10:34	Turbidity	25	NTU
GN-AP-MW-40	4/12/2021 10:39	Conductivity	218.33	uS/cm
GN-AP-MW-40	4/12/2021 10:39	DO	4.05	mg/L
GN-AP-MW-40	4/12/2021 10:39	Depth to Water Detail	13.57	ft
GN-AP-MW-40	4/12/2021 10:39	Oxidation Reduction Potention	78.76	mv
GN-AP-MW-40	4/12/2021 10:39	pH	7.94	SU
GN-AP-MW-40	4/12/2021 10:39	Temperature	18.49	C
GN-AP-MW-40	4/12/2021 10:39	Turbidity	24.2	NTU
GN-AP-MW-40	4/12/2021 10:44	Conductivity	218.12	uS/cm
GN-AP-MW-40	4/12/2021 10:44	DO	4.01	mg/L
GN-AP-MW-40	4/12/2021 10:44	Depth to Water Detail	13.57	ft
GN-AP-MW-40	4/12/2021 10:44	Oxidation Reduction Potention	78.54	mv
GN-AP-MW-40	4/12/2021 10:44	pH	7.94	SU
GN-AP-MW-40	4/12/2021 10:44	Temperature	18.54	C
GN-AP-MW-40	4/12/2021 10:44	Turbidity	20.1	NTU
GN-AP-MW-40	4/12/2021 10:49	Conductivity	217.85	uS/cm
GN-AP-MW-40	4/12/2021 10:49	DO	3.98	mg/L
GN-AP-MW-40	4/12/2021 10:49	Depth to Water Detail	13.57	ft
GN-AP-MW-40	4/12/2021 10:49	Oxidation Reduction Potention	77.26	mv
GN-AP-MW-40	4/12/2021 10:49	pH	7.85	SU
GN-AP-MW-40	4/12/2021 10:49	Temperature	18.51	C
GN-AP-MW-40	4/12/2021 10:49	Turbidity	16.1	NTU
GN-AP-MW-40	4/12/2021 10:54	Conductivity	217.04	uS/cm
GN-AP-MW-40	4/12/2021 10:54	DO	3.96	mg/L
GN-AP-MW-40	4/12/2021 10:54	Depth to Water Detail	13.57	ft
GN-AP-MW-40	4/12/2021 10:54	Oxidation Reduction Potention	72.52	mv
GN-AP-MW-40	4/12/2021 10:54	pH	7.86	SU
GN-AP-MW-40	4/12/2021 10:54	Temperature	18.45	C
GN-AP-MW-40	4/12/2021 10:54	Turbidity	13.8	NTU
GN-AP-MW-40	4/12/2021 10:59	Conductivity	216.76	uS/cm
GN-AP-MW-40	4/12/2021 10:59	DO	3.98	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-40	4/12/2021 10:59	Depth to Water Detail	13.57	ft
GN-AP-MW-40	4/12/2021 10:59	Oxidation Reduction Potention	70.45	mv
GN-AP-MW-40	4/12/2021 10:59	pH	7.87	SU
GN-AP-MW-40	4/12/2021 10:59	Temperature	18.53	C
GN-AP-MW-40	4/12/2021 10:59	Turbidity	13.1	NTU
GN-AP-MW-40	4/12/2021 11:04	Conductivity	216.38	uS/cm
GN-AP-MW-40	4/12/2021 11:04	DO	3.99	mg/L
GN-AP-MW-40	4/12/2021 11:04	Depth to Water Detail	13.57	ft
GN-AP-MW-40	4/12/2021 11:04	Oxidation Reduction Potention	69.07	mv
GN-AP-MW-40	4/12/2021 11:04	pH	7.88	SU
GN-AP-MW-40	4/12/2021 11:04	Temperature	18.58	C
GN-AP-MW-40	4/12/2021 11:04	Turbidity	11.9	NTU
GN-AP-MW-40	4/12/2021 11:09	Conductivity	217.06	uS/cm
GN-AP-MW-40	4/12/2021 11:09	DO	4.03	mg/L
GN-AP-MW-40	4/12/2021 11:09	Depth to Water Detail	13.57	ft
GN-AP-MW-40	4/12/2021 11:09	Oxidation Reduction Potention	68.43	mv
GN-AP-MW-40	4/12/2021 11:09	pH	7.87	SU
GN-AP-MW-40	4/12/2021 11:09	Temperature	18.6	C
GN-AP-MW-40	4/12/2021 11:09	Turbidity	12.23	NTU
GN-AP-MW-40	4/12/2021 11:14	Conductivity	217.93	uS/cm
GN-AP-MW-40	4/12/2021 11:14	DO	4.08	mg/L
GN-AP-MW-40	4/12/2021 11:14	Depth to Water Detail	13.57	ft
GN-AP-MW-40	4/12/2021 11:14	Oxidation Reduction Potention	73.38	mv
GN-AP-MW-40	4/12/2021 11:14	pH	7.77	SU
GN-AP-MW-40	4/12/2021 11:14	Temperature	18.53	C
GN-AP-MW-40	4/12/2021 11:14	Turbidity	9.95	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-41	4/12/2021 12:28	Conductivity	237.98	uS/cm
GN-AP-MW-41	4/12/2021 12:28	DO	4.66	mg/L
GN-AP-MW-41	4/12/2021 12:28	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 12:28	Oxidation Reduction Potention	142.7	mv
GN-AP-MW-41	4/12/2021 12:28	pH	6.81	SU
GN-AP-MW-41	4/12/2021 12:28	Temperature	17.61	C
GN-AP-MW-41	4/12/2021 12:28	Turbidity	26.2	NTU
GN-AP-MW-41	4/12/2021 12:33	Conductivity	237.68	uS/cm
GN-AP-MW-41	4/12/2021 12:33	DO	4.58	mg/L
GN-AP-MW-41	4/12/2021 12:33	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 12:33	Oxidation Reduction Potention	141.07	mv
GN-AP-MW-41	4/12/2021 12:33	pH	6.87	SU
GN-AP-MW-41	4/12/2021 12:33	Temperature	17.65	C
GN-AP-MW-41	4/12/2021 12:33	Turbidity	54.5	NTU
GN-AP-MW-41	4/12/2021 12:38	Conductivity	237.56	uS/cm
GN-AP-MW-41	4/12/2021 12:38	DO	4.63	mg/L
GN-AP-MW-41	4/12/2021 12:38	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 12:38	Oxidation Reduction Potention	137.4	mv
GN-AP-MW-41	4/12/2021 12:38	pH	6.92	SU
GN-AP-MW-41	4/12/2021 12:38	Temperature	17.64	C
GN-AP-MW-41	4/12/2021 12:38	Turbidity	46.5	NTU
GN-AP-MW-41	4/12/2021 12:43	Conductivity	237.44	uS/cm
GN-AP-MW-41	4/12/2021 12:43	DO	4.66	mg/L
GN-AP-MW-41	4/12/2021 12:43	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 12:43	Oxidation Reduction Potention	137.22	mv
GN-AP-MW-41	4/12/2021 12:43	pH	6.96	SU
GN-AP-MW-41	4/12/2021 12:43	Temperature	17.69	C
GN-AP-MW-41	4/12/2021 12:43	Turbidity	38.6	NTU
GN-AP-MW-41	4/12/2021 12:48	Conductivity	237.85	uS/cm
GN-AP-MW-41	4/12/2021 12:48	DO	4.71	mg/L
GN-AP-MW-41	4/12/2021 12:48	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 12:48	Oxidation Reduction Potention	131.43	mv
GN-AP-MW-41	4/12/2021 12:48	pH	7	SU
GN-AP-MW-41	4/12/2021 12:48	Temperature	17.68	C
GN-AP-MW-41	4/12/2021 12:48	Turbidity	32.6	NTU
GN-AP-MW-41	4/12/2021 12:53	Conductivity	237.17	uS/cm
GN-AP-MW-41	4/12/2021 12:53	DO	4.7	mg/L
GN-AP-MW-41	4/12/2021 12:53	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 12:53	Oxidation Reduction Potention	128.99	mv
GN-AP-MW-41	4/12/2021 12:53	pH	7.02	SU
GN-AP-MW-41	4/12/2021 12:53	Temperature	17.67	C
GN-AP-MW-41	4/12/2021 12:53	Turbidity	27.5	NTU
GN-AP-MW-41	4/12/2021 12:58	Conductivity	237.44	uS/cm
GN-AP-MW-41	4/12/2021 12:58	DO	4.72	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-41	4/12/2021 12:58	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 12:58	Oxidation Reduction Potention	126.66	mv
GN-AP-MW-41	4/12/2021 12:58	pH	7.03	SU
GN-AP-MW-41	4/12/2021 12:58	Temperature	17.65	C
GN-AP-MW-41	4/12/2021 12:58	Turbidity	20.4	NTU
GN-AP-MW-41	4/12/2021 13:03	Conductivity	237.32	uS/cm
GN-AP-MW-41	4/12/2021 13:03	DO	4.71	mg/L
GN-AP-MW-41	4/12/2021 13:03	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 13:03	Oxidation Reduction Potention	125.43	mv
GN-AP-MW-41	4/12/2021 13:03	pH	7.04	SU
GN-AP-MW-41	4/12/2021 13:03	Temperature	17.75	C
GN-AP-MW-41	4/12/2021 13:03	Turbidity	16.8	NTU
GN-AP-MW-41	4/12/2021 13:08	Conductivity	237.37	uS/cm
GN-AP-MW-41	4/12/2021 13:08	DO	4.7	mg/L
GN-AP-MW-41	4/12/2021 13:08	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 13:08	Oxidation Reduction Potention	123.08	mv
GN-AP-MW-41	4/12/2021 13:08	pH	7.07	SU
GN-AP-MW-41	4/12/2021 13:08	Temperature	17.88	C
GN-AP-MW-41	4/12/2021 13:08	Turbidity	12.8	NTU
GN-AP-MW-41	4/12/2021 13:13	Conductivity	237.47	uS/cm
GN-AP-MW-41	4/12/2021 13:13	DO	4.71	mg/L
GN-AP-MW-41	4/12/2021 13:13	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 13:13	Oxidation Reduction Potention	120.86	mv
GN-AP-MW-41	4/12/2021 13:13	pH	7.11	SU
GN-AP-MW-41	4/12/2021 13:13	Temperature	17.9	C
GN-AP-MW-41	4/12/2021 13:13	Turbidity	11	NTU
GN-AP-MW-41	4/12/2021 13:18	Conductivity	237.83	uS/cm
GN-AP-MW-41	4/12/2021 13:18	DO	4.69	mg/L
GN-AP-MW-41	4/12/2021 13:18	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 13:18	Oxidation Reduction Potention	116.83	mv
GN-AP-MW-41	4/12/2021 13:18	pH	7.16	SU
GN-AP-MW-41	4/12/2021 13:18	Temperature	17.75	C
GN-AP-MW-41	4/12/2021 13:18	Turbidity	11.44	NTU
GN-AP-MW-41	4/12/2021 13:23	Conductivity	237	uS/cm
GN-AP-MW-41	4/12/2021 13:23	DO	4.71	mg/L
GN-AP-MW-41	4/12/2021 13:23	Depth to Water Detail	6.92	ft
GN-AP-MW-41	4/12/2021 13:23	Oxidation Reduction Potention	115.11	mv
GN-AP-MW-41	4/12/2021 13:23	pH	7.18	SU
GN-AP-MW-41	4/12/2021 13:23	Temperature	17.64	C
GN-AP-MW-41	4/12/2021 13:23	Turbidity	9.02	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-42	4/13/2021 9:52	Conductivity	89.05	uS/cm
GN-AP-MW-42	4/13/2021 9:52	DO	4.47	mg/L
GN-AP-MW-42	4/13/2021 9:52	Depth to Water Detail	32.93	ft
GN-AP-MW-42	4/13/2021 9:52	Oxidation Reduction Potention	169.68	mv
GN-AP-MW-42	4/13/2021 9:52	pH	5.47	SU
GN-AP-MW-42	4/13/2021 9:52	Temperature	18.65	C
GN-AP-MW-42	4/13/2021 9:52	Turbidity	6.38	NTU
GN-AP-MW-42	4/13/2021 9:57	Conductivity	96.67	uS/cm
GN-AP-MW-42	4/13/2021 9:57	DO	4.32	mg/L
GN-AP-MW-42	4/13/2021 9:57	Depth to Water Detail	32.93	ft
GN-AP-MW-42	4/13/2021 9:57	Oxidation Reduction Potention	158.04	mv
GN-AP-MW-42	4/13/2021 9:57	pH	5.67	SU
GN-AP-MW-42	4/13/2021 9:57	Temperature	18.68	C
GN-AP-MW-42	4/13/2021 9:57	Turbidity	4.54	NTU
GN-AP-MW-42	4/13/2021 10:02	Conductivity	103.69	uS/cm
GN-AP-MW-42	4/13/2021 10:02	DO	4.24	mg/L
GN-AP-MW-42	4/13/2021 10:02	Depth to Water Detail	32.93	ft
GN-AP-MW-42	4/13/2021 10:02	Oxidation Reduction Potention	151.46	mv
GN-AP-MW-42	4/13/2021 10:02	pH	5.81	SU
GN-AP-MW-42	4/13/2021 10:02	Temperature	18.6	C
GN-AP-MW-42	4/13/2021 10:02	Turbidity	3.78	NTU
GN-AP-MW-42	4/13/2021 10:07	Conductivity	109.23	uS/cm
GN-AP-MW-42	4/13/2021 10:07	DO	4.16	mg/L
GN-AP-MW-42	4/13/2021 10:07	Depth to Water Detail	32.93	ft
GN-AP-MW-42	4/13/2021 10:07	Oxidation Reduction Potention	144.7	mv
GN-AP-MW-42	4/13/2021 10:07	pH	5.93	SU
GN-AP-MW-42	4/13/2021 10:07	Temperature	18.51	C
GN-AP-MW-42	4/13/2021 10:07	Turbidity	2.92	NTU
GN-AP-MW-42	4/13/2021 10:12	Conductivity	113.21	uS/cm
GN-AP-MW-42	4/13/2021 10:12	DO	4.09	mg/L
GN-AP-MW-42	4/13/2021 10:12	Depth to Water Detail	32.93	ft
GN-AP-MW-42	4/13/2021 10:12	Oxidation Reduction Potention	137.3	mv
GN-AP-MW-42	4/13/2021 10:12	pH	6.05	SU
GN-AP-MW-42	4/13/2021 10:12	Temperature	18.56	C
GN-AP-MW-42	4/13/2021 10:12	Turbidity	3.26	NTU
GN-AP-MW-42	4/13/2021 10:17	Conductivity	117	uS/cm
GN-AP-MW-42	4/13/2021 10:17	DO	4	mg/L
GN-AP-MW-42	4/13/2021 10:17	Depth to Water Detail	32.93	ft
GN-AP-MW-42	4/13/2021 10:17	Oxidation Reduction Potention	133.9	mv
GN-AP-MW-42	4/13/2021 10:17	pH	6.12	SU
GN-AP-MW-42	4/13/2021 10:17	Temperature	18.64	C
GN-AP-MW-42	4/13/2021 10:17	Turbidity	2.95	NTU
GN-AP-MW-42	4/13/2021 10:22	Conductivity	119.82	uS/cm
GN-AP-MW-42	4/13/2021 10:22	DO	3.91	mg/L

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GN-AP-MW-42	4/13/2021 10:22	Depth to Water Detail	32.93	ft
GN-AP-MW-42	4/13/2021 10:22	Oxidation Reduction Potention	131.71	mv
GN-AP-MW-42	4/13/2021 10:22	pH	6.18	SU
GN-AP-MW-42	4/13/2021 10:22	Temperature	18.69	C
GN-AP-MW-42	4/13/2021 10:22	Turbidity	2.72	NTU
GN-AP-MW-42	4/13/2021 10:27	Conductivity	123.18	uS/cm
GN-AP-MW-42	4/13/2021 10:27	DO	3.86	mg/L
GN-AP-MW-42	4/13/2021 10:27	Depth to Water Detail	32.93	ft
GN-AP-MW-42	4/13/2021 10:27	Oxidation Reduction Potention	130.34	mv
GN-AP-MW-42	4/13/2021 10:27	pH	6.19	SU
GN-AP-MW-42	4/13/2021 10:27	Temperature	18.72	C
GN-AP-MW-42	4/13/2021 10:27	Turbidity	1.93	NTU
GN-AP-MW-42	4/13/2021 10:32	Conductivity	125.6	uS/cm
GN-AP-MW-42	4/13/2021 10:32	DO	3.79	mg/L
GN-AP-MW-42	4/13/2021 10:32	Depth to Water Detail	32.93	ft
GN-AP-MW-42	4/13/2021 10:32	Oxidation Reduction Potention	133.24	mv
GN-AP-MW-42	4/13/2021 10:32	pH	6.14	SU
GN-AP-MW-42	4/13/2021 10:32	Temperature	18.58	C
GN-AP-MW-42	4/13/2021 10:32	Turbidity	1.55	NTU

Field Case Narrative



Alabama Power Company
2016
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2016
Alabama

Alabama Power Company

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All samples were collected using methods defined in Alabama Power's Water Field Group Low

Detailed description of the field case narrative, including sample collection methods and results.

Alabama Power Company

Alabama Power Company

- Alabama Power Company
- Alabama Power Company

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWGASAP_1339

Project/Site : Gaston Ash Pond
Wilsonville, AL 35186

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

October 28, 2021

Dear Dustin Brooks,

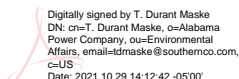
Enclosed are the analytical results for sample(s) received by the laboratory between September 22, 2021 and September 30, 2021. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Laura Midkiff** 
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2021.10.29 09:40:43 -05'00'

Supervision: **T. Durant Maske** 
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.10.29 14:12:42 -05'00'



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Total Metals ICP

Gaston Ash Pond

WMWGASAP_1339

- 1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
- 2. Refer to comments on Chain of Custody for information regarding sample receipt.
- 3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB17682	709639	WMWGASAP_1339
BB17683	709639	WMWGASAP_1339
BB17684	709639	WMWGASAP_1339
BB17685	709639	WMWGASAP_1339
BB17686	709639	WMWGASAP_1339
BB17687	709639	WMWGASAP_1339
BB17688	709639	WMWGASAP_1339
BB17689	709639	WMWGASAP_1339
BB17690	709639	WMWGASAP_1339
BB17691	709639	WMWGASAP_1339
BB17692	709640	WMWGASAP_1339
BB17693	709640	WMWGASAP_1339
BB17694	709640	WMWGASAP_1339
BB17695	709640	WMWGASAP_1339
BB17696	709640	WMWGASAP_1339
BB17697	709640	WMWGASAP_1339
BB17698	709640	WMWGASAP_1339
BB17699	709640	WMWGASAP_1339
BB17700	709640	WMWGASAP_1339
BB17701	709640	WMWGASAP_1339
BB17702	709641	WMWGASAP_1339
BB17703	709641	WMWGASAP_1339
BB18010	709202	WMWGASAP_1339
BB18011	709202	WMWGASAP_1339
BB18012	709202	WMWGASAP_1339
BB18013	709202	WMWGASAP_1339
BB18014	709202	WMWGASAP_1339
BB18015	709202	WMWGASAP_1339
BB18016	709202	WMWGASAP_1339
BB18017	709202	WMWGASAP_1339
BB18018	709202	WMWGASAP_1339

Case Narrative

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BB18019	709202	WMWGASAP_1339
BB18020	709203	WMWGASAP_1339
BB18021	709203	WMWGASAP_1339
BB18022	709203	WMWGASAP_1339
BB18279	709203	WMWGASAP_1339
BB18280	709203	WMWGASAP_1339
BB18281	709203	WMWGASAP_1339
BB18282	709203	WMWGASAP_1339
BB18283	709203	WMWGASAP_1339
BB18284	709203	WMWGASAP_1339
BB18285	709203	WMWGASAP_1339
BB18286	709204	WMWGASAP_1339
BB18287	709204	WMWGASAP_1339
BB18288	709204	WMWGASAP_1339
BB18289	709204	WMWGASAP_1339
BB18290	709204	WMWGASAP_1339
BB18291	709204	WMWGASAP_1339
BB18292	709204	WMWGASAP_1339
BB18293	709204	WMWGASAP_1339
BB18294	709204	WMWGASAP_1339
BB18295	709204	WMWGASAP_1339
BB18296	709205	WMWGASAP_1339
BB18297	709205	WMWGASAP_1339
BB18298	709205	WMWGASAP_1339

- All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
- All samples were prepared and analyzed within the established hold times.
- All in house quality control procedures were followed, as described below.

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General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BB17701 Calcium MS/MSD spike level was less than 30% of the sample concentration.
 - BB17703 Calcium MS/MSD spike level was less than 30% of the sample concentration.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

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7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB17689	Sodium	10.15
BB17690	Sodium	10.15
BB17691	Calcium, Magnesium	10.15
BB17692	Calcium, Magnesium	10.15
BB17693	Calcium	10.15
BB17695	Calcium	10.15
BB17696	Calcium	10.15
BB17699	Calcium	10.15
BB17700	Calcium	10.15
BB17701	Calcium	10.15
BB17702	Calcium	10.15
BB17703	Calcium	10.15
BB18010	Calcium	10.15
BB18012	Calcium, Sodium	10.15
BB18015	Calcium	10.15
BB18016	Calcium	10.15
BB18017	Calcium	10.15
BB18018	Calcium	10.15
BB18019	Calcium	10.15
BB18020	Calcium	10.15
BB18021	Calcium	10.15
BB18280	Calcium, Magnesium	10.15
BB18281	Calcium, Iron, Magnesium	10.15
BB18282	Calcium, Magnesium	10.15
BB18283	Calcium, Magnesium	10.15
BB18284	Calcium, Sodium	10.15
BB18285	Calcium	10.15
BB18286	Calcium	10.15
BB18290	Calcium, Sodium	10.15
BB18291	Calcium	10.15
BB18292	Calcium	10.15
BB18294	Calcium	10.15
BB18295	Sodium	10.15
BB18297	Calcium	10.15
BB18298	Calcium, Magnesium	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Gaston Ash Pond

WMWGASAP_1339

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB17682	708488	WMWGASAP_1339
BB17683	708488	WMWGASAP_1339
BB17684	708488	WMWGASAP_1339
BB17685	708488	WMWGASAP_1339
BB17686	708488	WMWGASAP_1339
BB17687	708488	WMWGASAP_1339
BB17688	708488	WMWGASAP_1339
BB17689	708488	WMWGASAP_1339
BB17690	708488	WMWGASAP_1339
BB17691	708488	WMWGASAP_1339
BB17692	708489	WMWGASAP_1339
BB17693	708489	WMWGASAP_1339
BB17694	708489	WMWGASAP_1339
BB17695	708489	WMWGASAP_1339
BB17696	708489	WMWGASAP_1339
BB17697	708489	WMWGASAP_1339
BB17698	708489	WMWGASAP_1339
BB17699	708489	WMWGASAP_1339
BB17700	708489	WMWGASAP_1339
BB17701	708489	WMWGASAP_1339
BB17702	708490	WMWGASAP_1339
BB17703	708490	WMWGASAP_1339
BB18010	709168	WMWGASAP_1339
BB18011	709168	WMWGASAP_1339
BB18012	709168	WMWGASAP_1339
BB18013	709168	WMWGASAP_1339
BB18015	709168	WMWGASAP_1339
BB18016	709168	WMWGASAP_1339
BB18017	709168	WMWGASAP_1339
BB18018	709168	WMWGASAP_1339
BB18019	709168	WMWGASAP_1339

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BB18020	709168	WMWGASAP_1339
BB18021	709169	WMWGASAP_1339
BB18280	709169	WMWGASAP_1339
BB18281	709169	WMWGASAP_1339
BB18282	709169	WMWGASAP_1339
BB18283	709169	WMWGASAP_1339
BB18284	709169	WMWGASAP_1339
BB18285	709169	WMWGASAP_1339
BB18286	709169	WMWGASAP_1339
BB18287	709169	WMWGASAP_1339
BB18290	709169	WMWGASAP_1339
BB18291	709170	WMWGASAP_1339
BB18292	709170	WMWGASAP_1339
BB18293	709170	WMWGASAP_1339
BB18294	709170	WMWGASAP_1339
BB18295	709170	WMWGASAP_1339
BB18297	709170	WMWGASAP_1339
BB18298	709170	WMWGASAP_1339

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.

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- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.

7. The following sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB18281	Iron	10.15

8. The raw data results are shown with dilution factors included.

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Total Metals ICPMS

Gaston Ash Pond

WMWGASAP_1339

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB17682	709020	WMWGASAP_1339
BB17683	709020	WMWGASAP_1339
BB17684	709020	WMWGASAP_1339
BB17685	709020	WMWGASAP_1339
BB17686	709020	WMWGASAP_1339
BB17687	709020	WMWGASAP_1339
BB17688	709020	WMWGASAP_1339
BB17689	709020	WMWGASAP_1339
BB17690	709020	WMWGASAP_1339
BB17691	709020	WMWGASAP_1339
BB17692	709021	WMWGASAP_1339
BB17693	709021	WMWGASAP_1339
BB17694	709021	WMWGASAP_1339
BB17695	709021	WMWGASAP_1339
BB17696	709021	WMWGASAP_1339
BB17697	709021	WMWGASAP_1339
BB17698	709021	WMWGASAP_1339
BB17699	709021	WMWGASAP_1339
BB17700	709021	WMWGASAP_1339
BB17701	709021	WMWGASAP_1339
BB17702	709022	WMWGASAP_1339
BB17703	709022	WMWGASAP_1339
BB18010	709899	WMWGASAP_1339
BB18011	709899	WMWGASAP_1339
BB18012	709899	WMWGASAP_1339
BB18013	709899	WMWGASAP_1339
BB18014	709899	WMWGASAP_1339
BB18015	709899	WMWGASAP_1339
BB18016	709899	WMWGASAP_1339
BB18017	709899	WMWGASAP_1339
BB18018	709899	WMWGASAP_1339

Case Narrative

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BB18019	709899	WMWGASAP_1339
BB18020	709900	WMWGASAP_1339
BB18021	709900	WMWGASAP_1339
BB18022	709900	WMWGASAP_1339
BB18279	709900	WMWGASAP_1339
BB18280	709900	WMWGASAP_1339
BB18281	709900	WMWGASAP_1339
BB18282	709900	WMWGASAP_1339
BB18283	709900	WMWGASAP_1339
BB18284	709900	WMWGASAP_1339
BB18285	709900	WMWGASAP_1339
BB18286	709901	WMWGASAP_1339
BB18287	709901	WMWGASAP_1339
BB18288	709901	WMWGASAP_1339
BB18289	709901	WMWGASAP_1339
BB18290	709901	WMWGASAP_1339
BB18291	709901	WMWGASAP_1339
BB18292	709901	WMWGASAP_1339
BB18293	709901	WMWGASAP_1339
BB18294	709901	WMWGASAP_1339
BB18295	709901	WMWGASAP_1339
BB18296	709902	WMWGASAP_1339
BB18297	709902	WMWGASAP_1339
BB18298	709902	WMWGASAP_1339

- All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
- All samples were prepared and analyzed within the established hold times.
- All in house quality control procedures were followed, as described below.

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General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BB18284	Molybdenum	5.075
BB18286	Molybdenum	5.075

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Gaston Ash Pond

WMWGASAP_1339

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB17682	708975	WMWGASAP_1339
BB17683	708975	WMWGASAP_1339
BB17684	708975	WMWGASAP_1339
BB17685	708975	WMWGASAP_1339
BB17686	708975	WMWGASAP_1339
BB17687	708975	WMWGASAP_1339
BB17688	708975	WMWGASAP_1339
BB17689	708975	WMWGASAP_1339
BB17690	708975	WMWGASAP_1339
BB17691	708975	WMWGASAP_1339
BB17692	708976	WMWGASAP_1339
BB17693	708976	WMWGASAP_1339
BB17694	708976	WMWGASAP_1339
BB17695	708976	WMWGASAP_1339
BB17696	708976	WMWGASAP_1339
BB17697	708976	WMWGASAP_1339
BB17698	708976	WMWGASAP_1339
BB17699	708976	WMWGASAP_1339
BB17700	708976	WMWGASAP_1339
BB17701	708976	WMWGASAP_1339
BB17702	708977	WMWGASAP_1339
BB17703	708977	WMWGASAP_1339
BB18010	709841	WMWGASAP_1339
BB18011	709841	WMWGASAP_1339
BB18012	709841	WMWGASAP_1339
BB18013	709841	WMWGASAP_1339
BB18015	709841	WMWGASAP_1339
BB18016	709841	WMWGASAP_1339
BB18017	709841	WMWGASAP_1339
BB18018	709841	WMWGASAP_1339
BB18019	709841	WMWGASAP_1339

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BB18020	709841	WMWGASAP_1339
BB18021	709842	WMWGASAP_1339
BB18280	709842	WMWGASAP_1339
BB18281	709842	WMWGASAP_1339
BB18282	709842	WMWGASAP_1339
BB18283	709842	WMWGASAP_1339
BB18284	709842	WMWGASAP_1339
BB18285	709842	WMWGASAP_1339
BB18286	709842	WMWGASAP_1339
BB18287	709842	WMWGASAP_1339
BB18290	709845	WMWGASAP_1339
BB18291	709845	WMWGASAP_1339
BB18292	709845	WMWGASAP_1339
BB18293	709845	WMWGASAP_1339
BB18294	709845	WMWGASAP_1339
BB18295	709845	WMWGASAP_1339
BB18297	709845	WMWGASAP_1339
BB18298	709845	WMWGASAP_1339

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

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- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.

- All samples were analyzed without a dilution factor.
- The raw data results are shown with dilution factors included.

Mercury

Gaston Ash Pond

WMWGASAP_1339

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB17682	708381	WMWGASAP_1339
BB17683	708381	WMWGASAP_1339
BB17684	708381	WMWGASAP_1339
BB17685	708381	WMWGASAP_1339
BB17686	708381	WMWGASAP_1339
BB17687	708381	WMWGASAP_1339
BB17688	708381	WMWGASAP_1339
BB17689	708381	WMWGASAP_1339
BB17690	708381	WMWGASAP_1339
BB17691	708381	WMWGASAP_1339
BB17692	708382	WMWGASAP_1339
BB17693	708382	WMWGASAP_1339
BB17694	708382	WMWGASAP_1339
BB17695	708382	WMWGASAP_1339
BB17696	708382	WMWGASAP_1339
BB17697	708382	WMWGASAP_1339
BB17698	708382	WMWGASAP_1339
BB17699	708382	WMWGASAP_1339
BB17700	708382	WMWGASAP_1339
BB17701	708382	WMWGASAP_1339
BB17702	708556	WMWGASAP_1339
BB17703	708556	WMWGASAP_1339
BB18010	708631	WMWGASAP_1339
BB18011	708631	WMWGASAP_1339
BB18012	708631	WMWGASAP_1339
BB18013	708631	WMWGASAP_1339
BB18014	708631	WMWGASAP_1339
BB18015	708631	WMWGASAP_1339
BB18016	708631	WMWGASAP_1339
BB18017	708631	WMWGASAP_1339
BB18018	708631	WMWGASAP_1339

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BB18019	708631	WMWGASAP_1339
BB18020	708632	WMWGASAP_1339
BB18021	708632	WMWGASAP_1339
BB18022	708632	WMWGASAP_1339
BB18279	708632	WMWGASAP_1339
BB18280	708632	WMWGASAP_1339
BB18281	708632	WMWGASAP_1339
BB18282	708632	WMWGASAP_1339
BB18283	708632	WMWGASAP_1339
BB18284	708632	WMWGASAP_1339
BB18285	708632	WMWGASAP_1339
BB18286	708799	WMWGASAP_1339
BB18287	708799	WMWGASAP_1339
BB18288	708799	WMWGASAP_1339
BB18289	708799	WMWGASAP_1339
BB18290	708799	WMWGASAP_1339
BB18291	708799	WMWGASAP_1339
BB18292	708799	WMWGASAP_1339
BB18293	708799	WMWGASAP_1339
BB18294	708799	WMWGASAP_1339
BB18295	708799	WMWGASAP_1339
BB18296	708800	WMWGASAP_1339
BB18297	708800	WMWGASAP_1339
BB18298	708800	WMWGASAP_1339

- All of the above samples were analyzed and prepared by EPA 245.1.
- All samples were prepared and analyzed within the established hold times.
- All in house quality control procedures were followed, as described below.

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General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution.
8. The raw data results are shown with dilution factors included.

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Case Narrative



TDS

Gaston Ash Pond

WMWGASAP_1339

- 1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
- 2. Refer to comments on Chain of Custody for information regarding sample receipt.
- 3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB17682	708350	WMWGASAP_1339
BB17683	708351	WMWGASAP_1339
BB17684	708351	WMWGASAP_1339
BB17685	708351	WMWGASAP_1339
BB17686	708351	WMWGASAP_1339
BB17687	708351	WMWGASAP_1339
BB17688	708351	WMWGASAP_1339
BB17689	708351	WMWGASAP_1339
BB17690	708351	WMWGASAP_1339
BB17691	708351	WMWGASAP_1339
BB17692	708351	WMWGASAP_1339
BB17693	708431	WMWGASAP_1339
BB17694	708431	WMWGASAP_1339
BB17695	708431	WMWGASAP_1339
BB17696	708431	WMWGASAP_1339
BB17697	708431	WMWGASAP_1339
BB17698	708431	WMWGASAP_1339
BB17699	708431	WMWGASAP_1339
BB17700	708431	WMWGASAP_1339
BB17701	708431	WMWGASAP_1339
BB17702	708431	WMWGASAP_1339
BB17703	708432	WMWGASAP_1339
BB18010	708681	WMWGASAP_1339
BB18011	708681	WMWGASAP_1339
BB18012	708681	WMWGASAP_1339
BB18013	708681	WMWGASAP_1339
BB18014	708681	WMWGASAP_1339
BB18015	708681	WMWGASAP_1339
BB18016	708681	WMWGASAP_1339
BB18017	708681	WMWGASAP_1339
BB18018	708681	WMWGASAP_1339

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BB18019	708681	WMWGASAP_1339
BB18020	708682	WMWGASAP_1339
BB18021	708682	WMWGASAP_1339
BB18022	708682	WMWGASAP_1339
BB18279	708807	WMWGASAP_1339
BB18280	708807	WMWGASAP_1339
BB18281	708807	WMWGASAP_1339
BB18282	708807	WMWGASAP_1339
BB18283	708807	WMWGASAP_1339
BB18284	708807	WMWGASAP_1339
BB18285	708807	WMWGASAP_1339
BB18286	708808	WMWGASAP_1339
BB18287	709111	WMWGASAP_1339
BB18288	709111	WMWGASAP_1339
BB18289	708808	WMWGASAP_1339
BB18290	708808	WMWGASAP_1339
BB18291	708808	WMWGASAP_1339
BB18292	708808	WMWGASAP_1339
BB18293	708808	WMWGASAP_1339
BB18294	708808	WMWGASAP_1339
BB18295	708808	WMWGASAP_1339
BB18296	708808	WMWGASAP_1339
BB18297	708808	WMWGASAP_1339
BB18298	709111	WMWGASAP_1339

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB18014
 - BB18022
 - BB18279
 - BB18288
 - BB18289
 - BB18296

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Anions

Gaston Ash Pond

WMWGASAP_1339

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB17682	709138, 709144, & 709805	WMWGASAP_1339
BB17683	709138, 709144, & 709805	WMWGASAP_1339
BB17684	709138, 709144, & 709805	WMWGASAP_1339
BB17685	709138, 709144, & 709805	WMWGASAP_1339
BB17686	709138, 709144, & 709805	WMWGASAP_1339
BB17687	709138, 709144, & 709805	WMWGASAP_1339
BB17688	709138, 709144, & 709805	WMWGASAP_1339
BB17689	709138, 709144, & 709805	WMWGASAP_1339
BB17690	709138, 709144, & 709805	WMWGASAP_1339
BB17691	709138, 709144, & 709805	WMWGASAP_1339
BB17692	709139, 709145, & 709806	WMWGASAP_1339
BB17693	709139, 709145, & 709806	WMWGASAP_1339
BB17694	709139, 709145, & 709806	WMWGASAP_1339
BB17695	709139, 709145, & 709806	WMWGASAP_1339
BB17696	709139, 709145, & 709806	WMWGASAP_1339
BB17697	709139, 709145, & 709806	WMWGASAP_1339
BB17698	709139, 709145, & 709806	WMWGASAP_1339
BB17699	709139, 709145, & 709806	WMWGASAP_1339
BB17700	709139, 709145, & 709806	WMWGASAP_1339
BB17701	709139, 709145, & 709806	WMWGASAP_1339
BB17702	709140, 709146, & 709807	WMWGASAP_1339
BB17703	709140, 709146, & 709807	WMWGASAP_1339
BB18010	709140, 709146, & 709807	WMWGASAP_1339
BB18011	709140, 709146, & 709807	WMWGASAP_1339
BB18012	709140, 709146, & 709807	WMWGASAP_1339
BB18013	709140, 709146, & 709807	WMWGASAP_1339
BB18014	709140, 709146, & 709807	WMWGASAP_1339
BB18015	709140, 709146, & 709807	WMWGASAP_1339
BB18016	709140, 709146, & 709807	WMWGASAP_1339
BB18017	709140, 709146, & 709807	WMWGASAP_1339
BB18018	709141, 709147, & 709808	WMWGASAP_1339

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BB18019	709141, 709147, & 709808	WMWGASAP_1339
BB18020	709141, 709147, & 709808	WMWGASAP_1339
BB18021	709141, 709147, & 709808	WMWGASAP_1339
BB18022	709141, 709147, & 709808	WMWGASAP_1339
BB18279	709141, 709147, & 709808	WMWGASAP_1339
BB18280	709141, 709147, & 709808	WMWGASAP_1339
BB18281	709141, 709147, & 709808	WMWGASAP_1339
BB18282	709141, 709147, & 709808	WMWGASAP_1339
BB18283	709141, 709147, & 709808	WMWGASAP_1339
BB18284	709142, 709148, & 709809	WMWGASAP_1339
BB18285	709142, 709148, & 709809	WMWGASAP_1339
BB18286	709142, 709148, & 709809	WMWGASAP_1339
BB18287	709142, 709148, & 709809	WMWGASAP_1339
BB18288	709142, 709148, & 709809	WMWGASAP_1339
BB18289	709142, 709148, & 709809	WMWGASAP_1339
BB18290	709142, 709148, & 709809	WMWGASAP_1339
BB18291	709142, 709148, & 709809	WMWGASAP_1339
BB18292	709142, 709148, & 709809	WMWGASAP_1339
BB18293	709142, 709148, & 709809	WMWGASAP_1339
BB18294	709143, 709149, & 709810	WMWGASAP_1339
BB18295	709143, 709149, & 709810	WMWGASAP_1339
BB18296	709143, 709149, & 709810	WMWGASAP_1339
BB18297	709143, 709149, & 709810	WMWGASAP_1339
BB18298	709143, 709149, & 709810	WMWGASAP_1339

- 4. All of the above samples analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
- 5. All samples were prepared and analyzed within the established hold times.
- 6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.

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- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB17689	Chloride & Sulfate	16 & 10
BB17690	Chloride	2
BB17691	Chloride & Sulfate	10 & 5
BB17692	Chloride & Sulfate	8 & 4
BB17693	Chloride & Sulfate	2 & 2
BB17695	Chloride & Sulfate	3 & 8
BB17699	Sulfate	2
BB17701	Sulfate	10
BB17703	Sulfate	5
BB18012	Chloride & Sulfate	3 & 8
BB18013	Sulfate	5
BB18017	Chloride & Sulfate	4 & 8
BB18018	Chloride & Sulfate	3 & 8
BB18019	Chloride & Sulfate	3 & 10
BB18020	Chloride & Sulfate	3 & 8
BB18021	Sulfate	5
BB18280	Chloride & Sulfate	2 & 25
BB18281	Sulfate	25
BB18282	Sulfate	40
BB18283	Sulfate	20
BB18284	Chloride & Sulfate	10 & 25
BB18285	Chloride & Sulfate	5 & 20

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BB18286	Chloride & Sulfate	5 & 20
BB18290	Chloride & Sulfate	10 & 16
BB18291	Chloride & Sulfate	2 & 10
BB18292	Chloride & Sulfate	2 & 10
BB18293	Sulfate	10
BB18294	Chloride & Sulfate	2 & 10
BB18295	Chloride	3
BB18297	Chloride	3
BB18298	Chloride & Sulfate	3 & 40

8. The raw data results are shown with dilution factors included.

Alkalinity

Gaston Ash Pond

WMWGASAP_1339

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BB17682	708697 & 708698	WMWGASAP_1339
BB17683	708697 & 708698	WMWGASAP_1339
BB17684	708697 & 708698	WMWGASAP_1339
BB17685	708697 & 708698	WMWGASAP_1339
BB17686	708697 & 708698	WMWGASAP_1339
BB17687	708697 & 708698	WMWGASAP_1339
BB17688	708697 & 708698	WMWGASAP_1339
BB17689	708697 & 708698	WMWGASAP_1339
BB17690	708697 & 708698	WMWGASAP_1339
BB17691	708697 & 708698	WMWGASAP_1339
BB17692	708697 & 708698	WMWGASAP_1339
BB17693	708697 & 708698	WMWGASAP_1339
BB17694	708697 & 708698	WMWGASAP_1339
BB17695	708697 & 708698	WMWGASAP_1339
BB17696	708697 & 708698	WMWGASAP_1339
BB17697	708697 & 708698	WMWGASAP_1339
BB17698	708697 & 708698	WMWGASAP_1339
BB17699	708697 & 708698	WMWGASAP_1339
BB17700	708697 & 708698	WMWGASAP_1339
BB17701	708697 & 708698	WMWGASAP_1339
BB17702	709472 & 709473	WMWGASAP_1339
BB17703	709472 & 709473	WMWGASAP_1339
BB18010	709472 & 709473	WMWGASAP_1339
BB18011	709472 & 709473	WMWGASAP_1339
BB18012	709472 & 709473	WMWGASAP_1339
BB18013	709472 & 709473	WMWGASAP_1339
BB18015	709472 & 709473	WMWGASAP_1339
BB18016	709472 & 709473	WMWGASAP_1339
BB18017	709472 & 709473	WMWGASAP_1339
BB18018	709472 & 709473	WMWGASAP_1339
BB18019	709472 & 709473	WMWGASAP_1339

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BB18020	709472 & 709473	WMWGASAP_1339
BB18021	709472 & 709473	WMWGASAP_1339
BB18280	709472 & 709473	WMWGASAP_1339
BB18281	709472 & 709473	WMWGASAP_1339
BB18282	709472 & 709473	WMWGASAP_1339
BB18283	709472 & 709473	WMWGASAP_1339
BB18284	709472 & 709473	WMWGASAP_1339
BB18285	709472 & 709473	WMWGASAP_1339
BB18286	709472 & 709473	WMWGASAP_1339
BB18287	709944 & 709945	WMWGASAP_1339
BB18290	709944 & 709945	WMWGASAP_1339
BB18291	709944 & 709945	WMWGASAP_1339
BB18292	709944 & 709945	WMWGASAP_1339
BB18293	709944 & 709945	WMWGASAP_1339
BB18294	709944 & 709945	WMWGASAP_1339
BB18295	709944 & 709945	WMWGASAP_1339
BB18297	709944 & 709945	WMWGASAP_1339
BB18298	709944 & 709945	WMWGASAP_1339

- All of the above samples were analyzed and prepared by Standard Method 2320B.
- All samples were prepared and analyzed within the established hold times.
- All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-38

Location Code: WMWASAP
Collected: 9/21/21 08:35
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17682

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	9/29/21 10:00	10/1/21 09:24		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	9/29/21 10:00	10/1/21 09:24		1.015	22.3	mg/L	0.070035	0.406		
* Iron, Total	9/29/21 10:00	10/1/21 09:24		1.015	0.0648	mg/L	0.008120	0.0406		
* Lithium, Total	9/29/21 10:00	10/1/21 09:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	9/29/21 10:00	10/1/21 09:24		1.015	12.6	mg/L	0.021315	0.406		
* Sodium, Total	9/29/21 10:00	10/1/21 09:24		1.015	5.40	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	9/29/21 10:00	9/29/21 11:27		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	9/23/21 10:28	9/24/21 11:15		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	9/23/21 10:28	9/24/21 11:15		1.015	0.000126	mg/L	0.000068	0.000203	J	
* Barium, Total	9/23/21 10:28	9/24/21 11:15		1.015	0.0101	mg/L	0.000102	0.000203		
* Beryllium, Total	9/23/21 10:28	9/24/21 11:15		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	9/23/21 10:28	9/24/21 11:15		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	9/23/21 10:28	9/24/21 11:15		1.015	0.000792	mg/L	0.000203	0.001015	J	
* Cobalt, Total	9/23/21 10:28	9/24/21 11:15		1.015	0.0000824	mg/L	0.000068	0.000203	J	
* Lead, Total	9/23/21 10:28	9/24/21 11:15		1.015	0.000119	mg/L	0.000068	0.000203	J	
* Molybdenum, Total	9/23/21 10:28	9/24/21 11:15		1.015	0.000172	mg/L	0.000068	0.000203	J	
* Potassium, Total	9/23/21 10:28	9/24/21 11:15		1.015	0.297	mg/L	0.169505	0.5075	J	
* Manganese, Total	9/23/21 10:28	9/24/21 11:15		1.015	0.00809	mg/L	0.000068	0.000203		
* Selenium, Total	9/23/21 10:28	9/24/21 11:15		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	9/23/21 10:28	9/24/21 11:15		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	9/23/21 11:35	9/24/21 12:54		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 17:05		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	108	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638					
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	115	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP
Collected: 9/21/21 08:35
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17682

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	106	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	1.58	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 11:48	9/30/21 11:48		1	6.09	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:07	10/1/21 09:07		1	0.0969	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 09:49	10/6/21 09:49		1	5.49	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/21/21 08:32	9/21/21 08:32			201.23	uS/cm			FA
pH	9/21/21 08:32	9/21/21 08:32			7.85	SU			FA
Temperature	9/21/21 08:32	9/21/21 08:32			19.23	C			FA
Turbidity	9/21/21 08:32	9/21/21 08:32			6.84	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 08:35

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BB17682

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB17691	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.115	0.113	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.75	20.0
BB17691	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0975	0.0986	0.0972	0.0850 to 0.115	97.5	70.0 to 130	1.12	20.0
BB17691	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.104	0.109	0.106	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB17691	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	46.1	45.8	5.16	4.25 to 5.75	106	70.0 to 130	0.653	20.0
BB17691	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17691	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0979	0.0993	0.101	0.0850 to 0.115	97.9	70.0 to 130	1.42	20.0
BB17691	Sodium, Total	mg/L	0.000427	0.0660	5.00	30.9	30.7	5.17	4.25 to 5.75	112	70.0 to 130	0.649	20.0
BB17691	Calcium, Total	mg/L	0.00105	0.152	5.00	57.2	56.9	5.06	4.25 to 5.75	106	70.0 to 130	0.526	20.0
BB17691	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0942	0.0959	0.102	0.0850 to 0.115	94.2	70.0 to 130	1.79	20.0
BB17691	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.154	0.161	0.0966	0.0850 to 0.115	96.3	70.0 to 130	4.44	20.0
BB17691	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.238	0.238	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB17691	Boron, Total	mg/L	0.00192	0.0650	1.00	2.50	2.51	1.04	0.850 to 1.15	104	70.0 to 130	0.399	20.0
BB17691	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.0975	0.0996	0.0917	0.0850 to 0.115	97.5	70.0 to 130	2.13	20.0
BB17691	Potassium, Total	mg/L	0.0396	0.367	10.0	12.9	13.2	10.0	8.50 to 11.5	95.0	70.0 to 130	2.30	20.0
BB17691	Iron, Total	mg/L	0.000317	0.0176	0.2	0.233	0.236	0.206	0.170 to 0.230	100	70.0 to 130	1.28	20.0
BB17691	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB17691	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB17691	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.102	0.105	0.0916	0.0850 to 0.115	96.6	70.0 to 130	2.90	20.0
BB17691	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.222	0.226	0.200	0.170 to 0.230	111	70.0 to 130	1.79	20.0
BB17691	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.112	0.117	0.103	0.0850 to 0.115	98.2	70.0 to 130	4.37	20.0
BB17691	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.0039	0.00394	0.0039	0.00340 to 0.00460	97.5	70.0 to 130	1.02	20.0
BB17691	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 08:35
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BB17682

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17682	Solids, Dissolved	mg/L	-1.00	25.0			112	48.0	40.0 to 60.0			1.32	5.00
BB17691	Fluoride	mg/L	0.0256	0.100	2.50	2.92	0.0935	2.63	2.25 to 2.75	113	80.0 to 120	3.48	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17691	Sulfate	mg/L	-0.230	1.00	100	184	81.2	19.7	18.0 to 22.0	103	80.0 to 120	0.618	20.0
BB17691	Chloride	mg/L	0.0513	1.00	100	153	54.4	10.0	9.00 to 11.0	98.0	80.0 to 120	1.10	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP
Collected: 9/21/21 09:32
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17683

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 09:28		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	9/29/21 10:00	10/1/21 09:28		1.015	31.7	mg/L	0.070035	0.406	
* Iron, Total	9/29/21 10:00	10/1/21 09:28		1.015	0.00833	mg/L	0.008120	0.0406	J
* Lithium, Total	9/29/21 10:00	10/1/21 09:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 09:28		1.015	18.6	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 09:28		1.015	0.978	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	9/29/21 10:00	9/29/21 11:30		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 11:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 11:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	9/23/21 10:28	9/24/21 11:19		1.015	0.0213	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 11:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 11:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 11:19		1.015	0.000452	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 11:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 11:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 11:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	9/23/21 10:28	9/24/21 11:19		1.015	0.509	mg/L	0.169505	0.5075	
* Manganese, Total	9/23/21 10:28	9/24/21 11:19		1.015	0.00418	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 11:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 11:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	9/23/21 11:35	9/24/21 12:57		1.015	0.000207	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 17:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	121	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638				
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	148	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP
Collected: 9/21/21 09:32
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17683

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	120	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.62	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 11:50	9/30/21 11:50		1	2.78	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:09	10/1/21 09:09		1	0.113	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 09:50	10/6/21 09:50		1	1.44	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/21/21 09:29	9/21/21 09:29			269.40	uS/cm			FA
pH	9/21/21 09:29	9/21/21 09:29			7.30	SU			FA
Temperature	9/21/21 09:29	9/21/21 09:29			18.76	C			FA
Turbidity	9/21/21 09:29	9/21/21 09:29			3.7	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 09:32

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BB17683

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB17691	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17691	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0979	0.0993	0.101	0.0850 to 0.115	97.9	70.0 to 130	1.42	20.0
BB17691	Sodium, Total	mg/L	0.000427	0.0660	5.00	30.9	30.7	5.17	4.25 to 5.75	112	70.0 to 130	0.649	20.0
BB17691	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.238	0.238	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB17691	Boron, Total	mg/L	0.00192	0.0650	1.00	2.50	2.51	1.04	0.850 to 1.15	104	70.0 to 130	0.399	20.0
BB17691	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.0975	0.0996	0.0917	0.0850 to 0.115	97.5	70.0 to 130	2.13	20.0
BB17691	Potassium, Total	mg/L	0.0396	0.367	10.0	12.9	13.2	10.0	8.50 to 11.5	95.0	70.0 to 130	2.30	20.0
BB17691	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.112	0.117	0.103	0.0850 to 0.115	98.2	70.0 to 130	4.37	20.0
BB17691	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.0039	0.00394	0.0039	0.00340 to 0.00460	97.5	70.0 to 130	1.02	20.0
BB17691	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BB17691	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.115	0.113	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.75	20.0
BB17691	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0975	0.0986	0.0972	0.0850 to 0.115	97.5	70.0 to 130	1.12	20.0
BB17691	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.104	0.109	0.106	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB17691	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	46.1	45.8	5.16	4.25 to 5.75	106	70.0 to 130	0.653	20.0
BB17691	Calcium, Total	mg/L	0.00105	0.152	5.00	57.2	56.9	5.06	4.25 to 5.75	106	70.0 to 130	0.526	20.0
BB17691	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0942	0.0959	0.102	0.0850 to 0.115	94.2	70.0 to 130	1.79	20.0
BB17691	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.154	0.161	0.0966	0.0850 to 0.115	96.3	70.0 to 130	4.44	20.0
BB17691	Iron, Total	mg/L	0.000317	0.0176	0.2	0.233	0.236	0.206	0.170 to 0.230	100	70.0 to 130	1.28	20.0
BB17691	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB17691	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB17691	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.102	0.105	0.0916	0.0850 to 0.115	96.6	70.0 to 130	2.90	20.0
BB17691	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.222	0.226	0.200	0.170 to 0.230	111	70.0 to 130	1.79	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 09:32
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BB17683

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17691	Fluoride	mg/L	0.0256	0.100	2.50	2.92	0.0935	2.63	2.25 to 2.75	113	80.0 to 120	3.48	20.0
BB17692	Solids, Dissolved	mg/L	-1.00	25.0			414	48.0	40.0 to 60.0			0.853	5.00
BB17691	Sulfate	mg/L	-0.230	1.00	100	184	81.2	19.7	18.0 to 22.0	103	80.0 to 120	0.618	20.0
BB17691	Chloride	mg/L	0.0513	1.00	100	153	54.4	10.0	9.00 to 11.0	98.0	80.0 to 120	1.10	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41 DUP

Location Code: WMWGASAP
Collected: 9/21/21 09:32
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17684

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 09:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	9/29/21 10:00	10/1/21 09:31		1.015	31.8	mg/L	0.070035	0.406	
* Iron, Total	9/29/21 10:00	10/1/21 09:31		1.015	0.00831	mg/L	0.008120	0.0406	J
* Lithium, Total	9/29/21 10:00	10/1/21 09:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 09:31		1.015	18.7	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 09:31		1.015	0.976	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 11:34		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 11:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	9/23/21 10:28	9/24/21 11:22		1.015	0.0220	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 11:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 11:22		1.015	0.000434	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	9/23/21 10:28	9/24/21 11:22		1.015	0.488	mg/L	0.169505	0.5075	J
* Manganese, Total	9/23/21 10:28	9/24/21 11:22		1.015	0.00443	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 11:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:01		1.015	0.000218	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 17:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	123	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	148	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41 DUP

Location Code: WMWGASAP
Collected: 9/21/21 09:32
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17684

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	122	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.63	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 11:51	9/30/21 11:51		1	2.75	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:10	10/1/21 09:10		1	0.0994	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 09:52	10/6/21 09:52		1	1.38	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/21/21 09:29	9/21/21 09:29			269.40	uS/cm			FA
pH	9/21/21 09:29	9/21/21 09:29			7.30	SU			FA
Temperature	9/21/21 09:29	9/21/21 09:29			18.76	C			FA
Turbidity	9/21/21 09:29	9/21/21 09:29			3.7	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 09:32

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-41 DUP

Laboratory ID Number: BB17684

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB17691	Manganese, Dissolved	mg/L	-0.000039	0.000147	0.100	0.115	0.113	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.75	20.0
BB17691	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.238	0.238	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB17691	Boron, Total	mg/L	0.00192	0.0650	1.00	2.50	2.51	1.04	0.850 to 1.15	104	70.0 to 130	0.399	20.0
BB17691	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.0975	0.0996	0.0917	0.0850 to 0.115	97.5	70.0 to 130	2.13	20.0
BB17691	Potassium, Total	mg/L	0.0396	0.367	10.0	12.9	13.2	10.0	8.50 to 11.5	95.0	70.0 to 130	2.30	20.0
BB17691	Calcium, Total	mg/L	0.00105	0.152	5.00	57.2	56.9	5.06	4.25 to 5.75	106	70.0 to 130	0.526	20.0
BB17691	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0942	0.0959	0.102	0.0850 to 0.115	94.2	70.0 to 130	1.79	20.0
BB17691	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.154	0.161	0.0966	0.0850 to 0.115	96.3	70.0 to 130	4.44	20.0
BB17691	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0975	0.0986	0.0972	0.0850 to 0.115	97.5	70.0 to 130	1.12	20.0
BB17691	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.104	0.109	0.106	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB17691	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	46.1	45.8	5.16	4.25 to 5.75	106	70.0 to 130	0.653	20.0
BB17691	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.112	0.117	0.103	0.0850 to 0.115	98.2	70.0 to 130	4.37	20.0
BB17691	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.0039	0.00394	0.0039	0.00340 to 0.00460	97.5	70.0 to 130	1.02	20.0
BB17691	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BB17691	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17691	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0979	0.0993	0.101	0.0850 to 0.115	97.9	70.0 to 130	1.42	20.0
BB17691	Sodium, Total	mg/L	0.000427	0.0660	5.00	30.9	30.7	5.17	4.25 to 5.75	112	70.0 to 130	0.649	20.0
BB17691	Iron, Total	mg/L	0.000317	0.0176	0.2	0.233	0.236	0.206	0.170 to 0.230	100	70.0 to 130	1.28	20.0
BB17691	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB17691	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB17691	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.102	0.105	0.0916	0.0850 to 0.115	96.6	70.0 to 130	2.90	20.0
BB17691	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.222	0.226	0.200	0.170 to 0.230	111	70.0 to 130	1.79	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 09:32

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-41 DUP

Laboratory ID Number: BB17684

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17691	Fluoride	mg/L	0.0256	0.100	2.50	2.92	0.0935	2.63	2.25 to 2.75	113	80.0 to 120	3.48	20.0
BB17691	Chloride	mg/L	0.0513	1.00	100	153	54.4	10.0	9.00 to 11.0	98.0	80.0 to 120	1.10	20.0
BB17691	Sulfate	mg/L	-0.230	1.00	100	184	81.2	19.7	18.0 to 22.0	103	80.0 to 120	0.618	20.0
BB17692	Solids, Dissolved	mg/L	-1.00	25.0			414	48.0	40.0 to 60.0			0.853	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP
Collected: 9/21/21 10:58
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17685

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	9/29/21 10:00	10/1/21 09:34		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	9/29/21 10:00	10/1/21 09:34		1.015	36.1	mg/L	0.070035	0.406		
* Iron, Total	9/29/21 10:00	10/1/21 09:34		1.015	0.285	mg/L	0.008120	0.0406		
* Lithium, Total	9/29/21 10:00	10/1/21 09:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	9/29/21 10:00	10/1/21 09:34		1.015	6.79	mg/L	0.021315	0.406		
* Sodium, Total	9/29/21 10:00	10/1/21 09:34		1.015	5.79	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	9/29/21 10:00	9/29/21 11:37		1.015	0.281	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	9/23/21 10:28	9/24/21 11:26		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	9/23/21 10:28	9/24/21 11:26		1.015	0.000489	mg/L	0.000068	0.000203		
* Barium, Total	9/23/21 10:28	9/24/21 11:26		1.015	0.0283	mg/L	0.000102	0.000203		
* Beryllium, Total	9/23/21 10:28	9/24/21 11:26		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	9/23/21 10:28	9/24/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	9/23/21 10:28	9/24/21 11:26		1.015	0.000331	mg/L	0.000203	0.001015	J	
* Cobalt, Total	9/23/21 10:28	9/24/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	9/23/21 10:28	9/24/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	9/23/21 10:28	9/24/21 11:26		1.015	0.000883	mg/L	0.000068	0.000203		
* Potassium, Total	9/23/21 10:28	9/24/21 11:26		1.015	0.457	mg/L	0.169505	0.5075	J	
* Manganese, Total	9/23/21 10:28	9/24/21 11:26		1.015	0.0666	mg/L	0.000068	0.000203		
* Selenium, Total	9/23/21 10:28	9/24/21 11:26		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	9/23/21 10:28	9/24/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:05		1.015	0.0651	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 17:17		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	105	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	139	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP
Collected: 9/21/21 10:58
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17685

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	104	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.74	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 11:52	9/30/21 11:52		1	2.94	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:11	10/1/21 09:11		1	0.181	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 09:53	10/6/21 09:53		1	14.5	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/21/21 10:55	9/21/21 10:55			231.06	uS/cm			FA
pH	9/21/21 10:55	9/21/21 10:55			7.30	SU			FA
Temperature	9/21/21 10:55	9/21/21 10:55			19.31	C			FA
Turbidity	9/21/21 10:55	9/21/21 10:55			2.12	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 10:58

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BB17685

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB17691	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.115	0.113	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.75	20.0
BB17691	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.112	0.117	0.103	0.0850 to 0.115	98.2	70.0 to 130	4.37	20.0
BB17691	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.0039	0.00394	0.0039	0.00340 to 0.00460	97.5	70.0 to 130	1.02	20.0
BB17691	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BB17691	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17691	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0979	0.0993	0.101	0.0850 to 0.115	97.9	70.0 to 130	1.42	20.0
BB17691	Sodium, Total	mg/L	0.000427	0.0660	5.00	30.9	30.7	5.17	4.25 to 5.75	112	70.0 to 130	0.649	20.0
BB17691	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0975	0.0986	0.0972	0.0850 to 0.115	97.5	70.0 to 130	1.12	20.0
BB17691	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.104	0.109	0.106	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB17691	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	46.1	45.8	5.16	4.25 to 5.75	106	70.0 to 130	0.653	20.0
BB17691	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.238	0.238	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB17691	Boron, Total	mg/L	0.00192	0.0650	1.00	2.50	2.51	1.04	0.850 to 1.15	104	70.0 to 130	0.399	20.0
BB17691	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.0975	0.0996	0.0917	0.0850 to 0.115	97.5	70.0 to 130	2.13	20.0
BB17691	Potassium, Total	mg/L	0.0396	0.367	10.0	12.9	13.2	10.0	8.50 to 11.5	95.0	70.0 to 130	2.30	20.0
BB17691	Iron, Total	mg/L	0.000317	0.0176	0.2	0.233	0.236	0.206	0.170 to 0.230	100	70.0 to 130	1.28	20.0
BB17691	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB17691	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB17691	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.102	0.105	0.0916	0.0850 to 0.115	96.6	70.0 to 130	2.90	20.0
BB17691	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.222	0.226	0.200	0.170 to 0.230	111	70.0 to 130	1.79	20.0
BB17691	Calcium, Total	mg/L	0.00105	0.152	5.00	57.2	56.9	5.06	4.25 to 5.75	106	70.0 to 130	0.526	20.0
BB17691	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0942	0.0959	0.102	0.0850 to 0.115	94.2	70.0 to 130	1.79	20.0
BB17691	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.154	0.161	0.0966	0.0850 to 0.115	96.3	70.0 to 130	4.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 10:58
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BB17685

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17691	Fluoride	mg/L	0.0256	0.100	2.50	2.92	0.0935	2.63	2.25 to 2.75	113	80.0 to 120	3.48	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17691	Sulfate	mg/L	-0.230	1.00	100	184	81.2	19.7	18.0 to 22.0	103	80.0 to 120	0.618	20.0
BB17691	Chloride	mg/L	0.0513	1.00	100	153	54.4	10.0	9.00 to 11.0	98.0	80.0 to 120	1.10	20.0
BB17692	Solids, Dissolved	mg/L	-1.00	25.0			414	48.0	40.0 to 60.0			0.853	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39 DUP

Location Code: WMWGASAP
Collected: 9/21/21 10:58
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17686

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 09:38		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	9/29/21 10:00	10/1/21 09:38		1.015	35.9	mg/L	0.070035	0.406	
* Iron, Total	9/29/21 10:00	10/1/21 09:38		1.015	0.286	mg/L	0.008120	0.0406	
* Lithium, Total	9/29/21 10:00	10/1/21 09:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 09:38		1.015	6.82	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 09:38		1.015	5.71	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 11:40		1.015	0.282	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 11:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 11:30		1.015	0.000456	mg/L	0.000068	0.000203	
* Barium, Total	9/23/21 10:28	9/24/21 11:30		1.015	0.0289	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 11:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 11:30		1.015	0.000450	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 11:30		1.015	0.00103	mg/L	0.000068	0.000203	
* Potassium, Total	9/23/21 10:28	9/24/21 11:30		1.015	0.452	mg/L	0.169505	0.5075	J
* Manganese, Total	9/23/21 10:28	9/24/21 11:30		1.015	0.0647	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 11:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:08		1.015	0.0652	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 17:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	111	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	138	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39 DUP

Location Code: WMWGASAP
Collected: 9/21/21 10:58
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17686

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	110	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.79	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 11:53	9/30/21 11:53		1	2.99	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:12	10/1/21 09:12		1	0.180	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 09:54	10/6/21 09:54		1	14.1	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/21/21 10:55	9/21/21 10:55			231.06	uS/cm			FA
pH	9/21/21 10:55	9/21/21 10:55			7.30	SU			FA
Temperature	9/21/21 10:55	9/21/21 10:55			19.31	C			FA
Turbidity	9/21/21 10:55	9/21/21 10:55			2.12	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 10:58

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-39 DUP

Laboratory ID Number: BB17686

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB17691	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0975	0.0986	0.0972	0.0850 to 0.115	97.5	70.0 to 130	1.12	20.0
BB17691	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.104	0.109	0.106	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB17691	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	46.1	45.8	5.16	4.25 to 5.75	106	70.0 to 130	0.653	20.0
BB17691	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17691	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0979	0.0993	0.101	0.0850 to 0.115	97.9	70.0 to 130	1.42	20.0
BB17691	Sodium, Total	mg/L	0.000427	0.0660	5.00	30.9	30.7	5.17	4.25 to 5.75	112	70.0 to 130	0.649	20.0
BB17691	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.115	0.113	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.75	20.0
BB17691	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.238	0.238	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB17691	Boron, Total	mg/L	0.00192	0.0650	1.00	2.50	2.51	1.04	0.850 to 1.15	104	70.0 to 130	0.399	20.0
BB17691	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.0975	0.0996	0.0917	0.0850 to 0.115	97.5	70.0 to 130	2.13	20.0
BB17691	Potassium, Total	mg/L	0.0396	0.367	10.0	12.9	13.2	10.0	8.50 to 11.5	95.0	70.0 to 130	2.30	20.0
BB17691	Calcium, Total	mg/L	0.00105	0.152	5.00	57.2	56.9	5.06	4.25 to 5.75	106	70.0 to 130	0.526	20.0
BB17691	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0942	0.0959	0.102	0.0850 to 0.115	94.2	70.0 to 130	1.79	20.0
BB17691	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.154	0.161	0.0966	0.0850 to 0.115	96.3	70.0 to 130	4.44	20.0
BB17691	Iron, Total	mg/L	0.000317	0.0176	0.2	0.233	0.236	0.206	0.170 to 0.230	100	70.0 to 130	1.28	20.0
BB17691	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB17691	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB17691	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.102	0.105	0.0916	0.0850 to 0.115	96.6	70.0 to 130	2.90	20.0
BB17691	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.222	0.226	0.200	0.170 to 0.230	111	70.0 to 130	1.79	20.0
BB17691	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.112	0.117	0.103	0.0850 to 0.115	98.2	70.0 to 130	4.37	20.0
BB17691	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.0039	0.00394	0.0039	0.00340 to 0.00460	97.5	70.0 to 130	1.02	20.0
BB17691	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 10:58

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-39 DUP

Laboratory ID Number: BB17686

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17691	Chloride	mg/L	0.0513	1.00	100	153	54.4	10.0	9.00 to 11.0	98.0	80.0 to 120	1.10	20.0
BB17692	Solids, Dissolved	mg/L	-1.00	25.0			414	48.0	40.0 to 60.0			0.853	5.00
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17691	Sulfate	mg/L	-0.230	1.00	100	184	81.2	19.7	18.0 to 22.0	103	80.0 to 120	0.618	20.0
BB17691	Fluoride	mg/L	0.0256	0.100	2.50	2.92	0.0935	2.63	2.25 to 2.75	113	80.0 to 120	3.48	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP
Collected: 9/21/21 12:17
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17687

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 09:41		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	9/29/21 10:00	10/1/21 09:41		1.015	21.6	mg/L	0.070035	0.406	
* Iron, Total	9/29/21 10:00	10/1/21 09:41		1.015	0.0148	mg/L	0.008120	0.0406	J
* Lithium, Total	9/29/21 10:00	10/1/21 09:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 09:41		1.015	12.6	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 09:41		1.015	1.32	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 11:44		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 11:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 11:33		1.015	0.000100	mg/L	0.000068	0.000203	J
* Barium, Total	9/23/21 10:28	9/24/21 11:33		1.015	0.00746	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 11:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 11:33		1.015	0.00113	mg/L	0.000203	0.001015	
* Cobalt, Total	9/23/21 10:28	9/24/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 11:33		1.015	0.000192	mg/L	0.000068	0.000203	J
* Potassium, Total	9/23/21 10:28	9/24/21 11:33		1.015	0.438	mg/L	0.169505	0.5075	J
* Manganese, Total	9/23/21 10:28	9/24/21 11:33		1.015	0.00396	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 11:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:12		1.015	0.000209	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 17:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	100	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	111	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP
Collected: 9/21/21 12:17
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17687

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	98.8	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	1.17	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 11:54	9/30/21 11:54		1	2.19	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:13	10/1/21 09:13		1	0.083	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 09:55	10/6/21 09:55		1	1.31	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/21/21 12:14	9/21/21 12:14			185.20	uS/cm			FA
pH	9/21/21 12:14	9/21/21 12:14			7.12	SU			FA
Temperature	9/21/21 12:14	9/21/21 12:14			19.66	C			FA
Turbidity	9/21/21 12:14	9/21/21 12:14			3.97	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 12:17

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BB17687

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB17691	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17691	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0979	0.0993	0.101	0.0850 to 0.115	97.9	70.0 to 130	1.42	20.0
BB17691	Sodium, Total	mg/L	0.000427	0.0660	5.00	30.9	30.7	5.17	4.25 to 5.75	112	70.0 to 130	0.649	20.0
BB17691	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0975	0.0986	0.0972	0.0850 to 0.115	97.5	70.0 to 130	1.12	20.0
BB17691	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.104	0.109	0.106	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB17691	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	46.1	45.8	5.16	4.25 to 5.75	106	70.0 to 130	0.653	20.0
BB17691	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.112	0.117	0.103	0.0850 to 0.115	98.2	70.0 to 130	4.37	20.0
BB17691	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.0039	0.00394	0.0039	0.00340 to 0.00460	97.5	70.0 to 130	1.02	20.0
BB17691	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BB17691	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.238	0.238	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB17691	Boron, Total	mg/L	0.00192	0.0650	1.00	2.50	2.51	1.04	0.850 to 1.15	104	70.0 to 130	0.399	20.0
BB17691	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.0975	0.0996	0.0917	0.0850 to 0.115	97.5	70.0 to 130	2.13	20.0
BB17691	Potassium, Total	mg/L	0.0396	0.367	10.0	12.9	13.2	10.0	8.50 to 11.5	95.0	70.0 to 130	2.30	20.0
BB17691	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.115	0.113	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.75	20.0
BB17691	Calcium, Total	mg/L	0.00105	0.152	5.00	57.2	56.9	5.06	4.25 to 5.75	106	70.0 to 130	0.526	20.0
BB17691	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0942	0.0959	0.102	0.0850 to 0.115	94.2	70.0 to 130	1.79	20.0
BB17691	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.154	0.161	0.0966	0.0850 to 0.115	96.3	70.0 to 130	4.44	20.0
BB17691	Iron, Total	mg/L	0.000317	0.0176	0.2	0.233	0.236	0.206	0.170 to 0.230	100	70.0 to 130	1.28	20.0
BB17691	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB17691	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB17691	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.102	0.105	0.0916	0.0850 to 0.115	96.6	70.0 to 130	2.90	20.0
BB17691	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.222	0.226	0.200	0.170 to 0.230	111	70.0 to 130	1.79	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 12:17
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BB17687

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17691	Fluoride	mg/L	0.0256	0.100	2.50	2.92	0.0935	2.63	2.25 to 2.75	113	80.0 to 120	3.48	20.0
BB17692	Solids, Dissolved	mg/L	-1.00	25.0			414	48.0	40.0 to 60.0			0.853	5.00
BB17691	Sulfate	mg/L	-0.230	1.00	100	184	81.2	19.7	18.0 to 22.0	103	80.0 to 120	0.618	20.0
BB17691	Chloride	mg/L	0.0513	1.00	100	153	54.4	10.0	9.00 to 11.0	98.0	80.0 to 120	1.10	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP
Collected: 9/21/21 14:18
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	9/29/21 10:00	10/1/21 09:45		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	9/29/21 10:00	10/1/21 09:45		1.015	15.4	mg/L	0.070035	0.406		
* Iron, Total	9/29/21 10:00	10/1/21 09:45		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	9/29/21 10:00	10/1/21 09:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	9/29/21 10:00	10/1/21 09:45		1.015	9.83	mg/L	0.021315	0.406		
* Sodium, Total	9/29/21 10:00	10/1/21 09:45		1.015	3.28	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	9/29/21 10:00	9/29/21 11:47		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	9/23/21 10:28	9/24/21 11:37		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	9/23/21 10:28	9/24/21 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	9/23/21 10:28	9/24/21 11:37		1.015	0.0114	mg/L	0.000102	0.000203		
* Beryllium, Total	9/23/21 10:28	9/24/21 11:37		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	9/23/21 10:28	9/24/21 11:37		1.015	0.000181	mg/L	0.000068	0.000203	J	
* Chromium, Total	9/23/21 10:28	9/24/21 11:37		1.015	0.000503	mg/L	0.000203	0.001015	J	
* Cobalt, Total	9/23/21 10:28	9/24/21 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	9/23/21 10:28	9/24/21 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	9/23/21 10:28	9/24/21 11:37		1.015	0.000151	mg/L	0.000068	0.000203	J	
* Potassium, Total	9/23/21 10:28	9/24/21 11:37		1.015	0.291	mg/L	0.169505	0.5075	J	
* Manganese, Total	9/23/21 10:28	9/24/21 11:37		1.015	0.0823	mg/L	0.000068	0.000203		
* Selenium, Total	9/23/21 10:28	9/24/21 11:37		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	9/23/21 10:28	9/24/21 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:15		1.015	0.0806	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 17:29		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	70.2	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638					
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	83.3	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP
Collected: 9/21/21 14:18
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	70.1	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.05	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 11:56	9/30/21 11:56		1	3.99	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:15	10/1/21 09:15		1	0.0656	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 09:56	10/6/21 09:56		1	3.27	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/21/21 14:15	9/21/21 14:15			148.34	uS/cm			FA
pH	9/21/21 14:15	9/21/21 14:15			6.07	SU			FA
Temperature	9/21/21 14:15	9/21/21 14:15			19.12	C			FA
Turbidity	9/21/21 14:15	9/21/21 14:15			2.19	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 14:18

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BB17688

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB17691	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17691	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0979	0.0993	0.101	0.0850 to 0.115	97.9	70.0 to 130	1.42	20.0
BB17691	Sodium, Total	mg/L	0.000427	0.0660	5.00	30.9	30.7	5.17	4.25 to 5.75	112	70.0 to 130	0.649	20.0
BB17691	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.115	0.113	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.75	20.0
BB17691	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0975	0.0986	0.0972	0.0850 to 0.115	97.5	70.0 to 130	1.12	20.0
BB17691	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.104	0.109	0.106	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB17691	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	46.1	45.8	5.16	4.25 to 5.75	106	70.0 to 130	0.653	20.0
BB17691	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.238	0.238	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB17691	Boron, Total	mg/L	0.00192	0.0650	1.00	2.50	2.51	1.04	0.850 to 1.15	104	70.0 to 130	0.399	20.0
BB17691	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.0975	0.0996	0.0917	0.0850 to 0.115	97.5	70.0 to 130	2.13	20.0
BB17691	Potassium, Total	mg/L	0.0396	0.367	10.0	12.9	13.2	10.0	8.50 to 11.5	95.0	70.0 to 130	2.30	20.0
BB17691	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.112	0.117	0.103	0.0850 to 0.115	98.2	70.0 to 130	4.37	20.0
BB17691	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.0039	0.00394	0.0039	0.00340 to 0.00460	97.5	70.0 to 130	1.02	20.0
BB17691	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BB17691	Calcium, Total	mg/L	0.00105	0.152	5.00	57.2	56.9	5.06	4.25 to 5.75	106	70.0 to 130	0.526	20.0
BB17691	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0942	0.0959	0.102	0.0850 to 0.115	94.2	70.0 to 130	1.79	20.0
BB17691	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.154	0.161	0.0966	0.0850 to 0.115	96.3	70.0 to 130	4.44	20.0
BB17691	Iron, Total	mg/L	0.000317	0.0176	0.2	0.233	0.236	0.206	0.170 to 0.230	100	70.0 to 130	1.28	20.0
BB17691	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB17691	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB17691	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.102	0.105	0.0916	0.0850 to 0.115	96.6	70.0 to 130	2.90	20.0
BB17691	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.222	0.226	0.200	0.170 to 0.230	111	70.0 to 130	1.79	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 14:18
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BB17688

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17691	Fluoride	mg/L	0.0256	0.100	2.50	2.92	0.0935	2.63	2.25 to 2.75	113	80.0 to 120	3.48	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17691	Chloride	mg/L	0.0513	1.00	100	153	54.4	10.0	9.00 to 11.0	98.0	80.0 to 120	1.10	20.0
BB17691	Sulfate	mg/L	-0.230	1.00	100	184	81.2	19.7	18.0 to 22.0	103	80.0 to 120	0.618	20.0
BB17692	Solids, Dissolved	mg/L	-1.00	25.0			414	48.0	40.0 to 60.0			0.853	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP
Collected: 9/22/21 09:56
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 09:48		1.015	0.180	mg/L	0.030000	0.1015	
* Calcium, Total	9/29/21 10:00	10/1/21 09:48		1.015	30.3	mg/L	0.070035	0.406	
* Iron, Total	9/29/21 10:00	10/1/21 09:48		1.015	0.0226	mg/L	0.008120	0.0406	J
* Lithium, Total	9/29/21 10:00	10/1/21 09:48		1.015	0.0246	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/29/21 10:00	10/1/21 09:48		1.015	21.7	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 11:29		10.15	166	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 11:51		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 11:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 11:40		1.015	0.00172	mg/L	0.000068	0.000203	
* Barium, Total	9/23/21 10:28	9/24/21 11:40		1.015	0.0847	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 11:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 11:40		1.015	0.000286	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 11:40		1.015	0.0506	mg/L	0.000068	0.000203	
* Potassium, Total	9/23/21 10:28	9/24/21 11:40		1.015	55.3	mg/L	0.169505	0.5075	
* Manganese, Total	9/23/21 10:28	9/24/21 11:40		1.015	0.0432	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 11:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:19		1.015	0.0434	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 17:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	231	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	673	mg/L		75.8	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP
Collected: 9/22/21 09:56
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	227	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	3.63	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	9/30/21 12:14	9/30/21 12:14		16	168	mg/L	8.00	16	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:16	10/1/21 09:16		1	0.452	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 09:58	10/6/21 09:58		10	192	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/22/21 09:53	9/22/21 09:53			1329.83	uS/cm			FA
pH	9/22/21 09:53	9/22/21 09:53			7.93	SU			FA
Temperature	9/22/21 09:53	9/22/21 09:53			21.96	C			FA
Turbidity	9/22/21 09:53	9/22/21 09:53			1.51	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/22/21 09:56

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BB17689

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB17691	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17691	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0979	0.0993	0.101	0.0850 to 0.115	97.9	70.0 to 130	1.42	20.0
BB17691	Sodium, Total	mg/L	0.000427	0.0660	5.00	30.9	30.7	5.17	4.25 to 5.75	112	70.0 to 130	0.649	20.0
BB17691	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.238	0.238	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB17691	Boron, Total	mg/L	0.00192	0.0650	1.00	2.50	2.51	1.04	0.850 to 1.15	104	70.0 to 130	0.399	20.0
BB17691	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.0975	0.0996	0.0917	0.0850 to 0.115	97.5	70.0 to 130	2.13	20.0
BB17691	Potassium, Total	mg/L	0.0396	0.367	10.0	12.9	13.2	10.0	8.50 to 11.5	95.0	70.0 to 130	2.30	20.0
BB17691	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.115	0.113	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.75	20.0
BB17691	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0975	0.0986	0.0972	0.0850 to 0.115	97.5	70.0 to 130	1.12	20.0
BB17691	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.104	0.109	0.106	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB17691	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	46.1	45.8	5.16	4.25 to 5.75	106	70.0 to 130	0.653	20.0
BB17691	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.112	0.117	0.103	0.0850 to 0.115	98.2	70.0 to 130	4.37	20.0
BB17691	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.0039	0.00394	0.0039	0.00340 to 0.00460	97.5	70.0 to 130	1.02	20.0
BB17691	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BB17691	Iron, Total	mg/L	0.000317	0.0176	0.2	0.233	0.236	0.206	0.170 to 0.230	100	70.0 to 130	1.28	20.0
BB17691	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB17691	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB17691	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.102	0.105	0.0916	0.0850 to 0.115	96.6	70.0 to 130	2.90	20.0
BB17691	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.222	0.226	0.200	0.170 to 0.230	111	70.0 to 130	1.79	20.0
BB17691	Calcium, Total	mg/L	0.00105	0.152	5.00	57.2	56.9	5.06	4.25 to 5.75	106	70.0 to 130	0.526	20.0
BB17691	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0942	0.0959	0.102	0.0850 to 0.115	94.2	70.0 to 130	1.79	20.0
BB17691	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.154	0.161	0.0966	0.0850 to 0.115	96.3	70.0 to 130	4.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/22/21 09:56
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BB17689

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17691	Fluoride	mg/L	0.0256	0.100	2.50	2.92	0.0935	2.63	2.25 to 2.75	113	80.0 to 120	3.48	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17692	Solids, Dissolved	mg/L	-1.00	25.0			414	48.0	40.0 to 60.0			0.853	5.00
BB17691	Sulfate	mg/L	-0.230	1.00	100	184	81.2	19.7	18.0 to 22.0	103	80.0 to 120	0.618	20.0
BB17691	Chloride	mg/L	0.0513	1.00	100	153	54.4	10.0	9.00 to 11.0	98.0	80.0 to 120	1.10	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 9/22/21 11:21
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17690

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 09:51		1.015	0.145	mg/L	0.030000	0.1015	
* Calcium, Total	9/29/21 10:00	10/1/21 09:51		1.015	40.4	mg/L	0.070035	0.406	
* Iron, Total	9/29/21 10:00	10/1/21 09:51		1.015	0.150	mg/L	0.008120	0.0406	
* Lithium, Total	9/29/21 10:00	10/1/21 09:51		1.015	0.0901	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/29/21 10:00	10/1/21 09:51		1.015	23.4	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 11:33		10.15	55.2	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 11:54		1.015	0.0359	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 11:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 11:44		1.015	0.0209	mg/L	0.000068	0.000203	
* Barium, Total	9/23/21 10:28	9/24/21 11:44		1.015	0.0640	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 11:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 11:44		1.015	0.000227	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 11:44		1.015	0.0124	mg/L	0.000068	0.000203	
* Potassium, Total	9/23/21 10:28	9/24/21 11:44		1.015	3.95	mg/L	0.169505	0.5075	
* Manganese, Total	9/23/21 10:28	9/24/21 11:44		1.015	0.0786	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 11:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:23		1.015	0.0852	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 17:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	241	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	354	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 9/22/21 11:21
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17690

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	239	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	1.96	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 12:15	9/30/21 12:15		2	21.6	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:17	10/1/21 09:17		1	0.363	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 09:59	10/6/21 09:59		1	36.0	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/22/21 11:17	9/22/21 11:17			570.54	uS/cm			FA
pH	9/22/21 11:17	9/22/21 11:17			7.78	SU			FA
Temperature	9/22/21 11:17	9/22/21 11:17			22.47	C			FA
Turbidity	9/22/21 11:17	9/22/21 11:17			2.12	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/22/21 11:21

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BB17690

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB17691	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17691	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0979	0.0993	0.101	0.0850 to 0.115	97.9	70.0 to 130	1.42	20.0
BB17691	Sodium, Total	mg/L	0.000427	0.0660	5.00	30.9	30.7	5.17	4.25 to 5.75	112	70.0 to 130	0.649	20.0
BB17691	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.115	0.113	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.75	20.0
BB17691	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.112	0.117	0.103	0.0850 to 0.115	98.2	70.0 to 130	4.37	20.0
BB17691	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.0039	0.00394	0.0039	0.00340 to 0.00460	97.5	70.0 to 130	1.02	20.0
BB17691	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BB17691	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0975	0.0986	0.0972	0.0850 to 0.115	97.5	70.0 to 130	1.12	20.0
BB17691	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.104	0.109	0.106	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB17691	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	46.1	45.8	5.16	4.25 to 5.75	106	70.0 to 130	0.653	20.0
BB17691	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.238	0.238	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB17691	Boron, Total	mg/L	0.00192	0.0650	1.00	2.50	2.51	1.04	0.850 to 1.15	104	70.0 to 130	0.399	20.0
BB17691	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.0975	0.0996	0.0917	0.0850 to 0.115	97.5	70.0 to 130	2.13	20.0
BB17691	Potassium, Total	mg/L	0.0396	0.367	10.0	12.9	13.2	10.0	8.50 to 11.5	95.0	70.0 to 130	2.30	20.0
BB17691	Calcium, Total	mg/L	0.00105	0.152	5.00	57.2	56.9	5.06	4.25 to 5.75	106	70.0 to 130	0.526	20.0
BB17691	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0942	0.0959	0.102	0.0850 to 0.115	94.2	70.0 to 130	1.79	20.0
BB17691	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.154	0.161	0.0966	0.0850 to 0.115	96.3	70.0 to 130	4.44	20.0
BB17691	Iron, Total	mg/L	0.000317	0.0176	0.2	0.233	0.236	0.206	0.170 to 0.230	100	70.0 to 130	1.28	20.0
BB17691	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB17691	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB17691	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.102	0.105	0.0916	0.0850 to 0.115	96.6	70.0 to 130	2.90	20.0
BB17691	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.222	0.226	0.200	0.170 to 0.230	111	70.0 to 130	1.79	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/22/21 11:21

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BB17690

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17691	Fluoride	mg/L	0.0256	0.100	2.50	2.92	0.0935	2.63	2.25 to 2.75	113	80.0 to 120	3.48	20.0
BB17691	Chloride	mg/L	0.0513	1.00	100	153	54.4	10.0	9.00 to 11.0	98.0	80.0 to 120	1.10	20.0
BB17692	Solids, Dissolved	mg/L	-1.00	25.0			414	48.0	40.0 to 60.0			0.853	5.00
BB17691	Sulfate	mg/L	-0.230	1.00	100	184	81.2	19.7	18.0 to 22.0	103	80.0 to 120	0.618	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP
Collected: 9/21/21 10:33
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17691

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 09:55		1.015	1.46	mg/L	0.030000	0.1015	
* Calcium, Total	9/29/21 10:00	10/1/21 11:36		10.15	51.9	mg/L	0.70035	4.06	
* Iron, Total	9/29/21 10:00	10/1/21 09:55		1.015	0.0322	mg/L	0.008120	0.0406	J
* Lithium, Total	9/29/21 10:00	10/1/21 09:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 11:36		10.15	40.8	mg/L	0.21315	4.06	
* Sodium, Total	9/29/21 10:00	10/1/21 09:55		1.015	25.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 11:57		1.015	0.0352	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 11:47		1.015	0.00102	mg/L	0.000068	0.000203	
* Barium, Total	9/23/21 10:28	9/24/21 11:47		1.015	0.0577	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 11:47		1.015	0.000431	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 11:47		1.015	0.00537	mg/L	0.000068	0.000203	
* Potassium, Total	9/23/21 10:28	9/24/21 11:47		1.015	3.40	mg/L	0.169505	0.5075	
* Manganese, Total	9/23/21 10:28	9/24/21 11:47		1.015	0.0138	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:26		1.015	0.0155	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 17:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	165	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	377	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP
Collected: 9/21/21 10:33
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17691

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	164	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	1.25	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 12:16	9/30/21 12:16		10	55.0	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:18	10/1/21 09:18		1	0.0903	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:00	10/6/21 10:00		5	80.7	mg/L	2.50	5	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/21/21 10:31	9/21/21 10:31			625.29	uS/cm			FA
pH	9/21/21 10:31	9/21/21 10:31			8.08	SU			FA
Temperature	9/21/21 10:31	9/21/21 10:31			21.32	C			FA
Turbidity	9/21/21 10:31	9/21/21 10:31			1.53	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 10:33

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BB17691

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB17691	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.115	0.113	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.75	20.0
BB17691	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17691	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0979	0.0993	0.101	0.0850 to 0.115	97.9	70.0 to 130	1.42	20.0
BB17691	Sodium, Total	mg/L	0.000427	0.0660	5.00	30.9	30.7	5.17	4.25 to 5.75	112	70.0 to 130	0.649	20.0
BB17691	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.238	0.238	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB17691	Boron, Total	mg/L	0.00192	0.0650	1.00	2.50	2.51	1.04	0.850 to 1.15	104	70.0 to 130	0.399	20.0
BB17691	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.0975	0.0996	0.0917	0.0850 to 0.115	97.5	70.0 to 130	2.13	20.0
BB17691	Potassium, Total	mg/L	0.0396	0.367	10.0	12.9	13.2	10.0	8.50 to 11.5	95.0	70.0 to 130	2.30	20.0
BB17691	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0975	0.0986	0.0972	0.0850 to 0.115	97.5	70.0 to 130	1.12	20.0
BB17691	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.104	0.109	0.106	0.0850 to 0.115	104	70.0 to 130	4.69	20.0
BB17691	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	46.1	45.8	5.16	4.25 to 5.75	106	70.0 to 130	0.653	20.0
BB17691	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.112	0.117	0.103	0.0850 to 0.115	98.2	70.0 to 130	4.37	20.0
BB17691	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.0039	0.00394	0.0039	0.00340 to 0.00460	97.5	70.0 to 130	1.02	20.0
BB17691	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BB17691	Calcium, Total	mg/L	0.00105	0.152	5.00	57.2	56.9	5.06	4.25 to 5.75	106	70.0 to 130	0.526	20.0
BB17691	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0942	0.0959	0.102	0.0850 to 0.115	94.2	70.0 to 130	1.79	20.0
BB17691	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.154	0.161	0.0966	0.0850 to 0.115	96.3	70.0 to 130	4.44	20.0
BB17691	Iron, Total	mg/L	0.000317	0.0176	0.2	0.233	0.236	0.206	0.170 to 0.230	100	70.0 to 130	1.28	20.0
BB17691	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB17691	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BB17691	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.102	0.105	0.0916	0.0850 to 0.115	96.6	70.0 to 130	2.90	20.0
BB17691	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.222	0.226	0.200	0.170 to 0.230	111	70.0 to 130	1.79	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 10:33
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BB17691

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17691	Fluoride	mg/L	0.0256	0.100	2.50	2.92	0.0935	2.63	2.25 to 2.75	113	80.0 to 120	3.48	20.0
BB17691	Chloride	mg/L	0.0513	1.00	100	153	54.4	10.0	9.00 to 11.0	98.0	80.0 to 120	1.10	20.0
BB17692	Solids, Dissolved	mg/L	-1.00	25.0			414	48.0	40.0 to 60.0			0.853	5.00
BB17691	Sulfate	mg/L	-0.230	1.00	100	184	81.2	19.7	18.0 to 22.0	103	80.0 to 120	0.618	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D DUP

Location Code: WMWGASAP
Collected: 9/21/21 10:33
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17692

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 10:12		1.015	1.47	mg/L	0.030000	0.1015	
* Calcium, Total	9/29/21 10:00	10/1/21 11:46		10.15	53.0	mg/L	0.70035	4.06	
* Iron, Total	9/29/21 10:00	10/1/21 10:12		1.015	0.0340	mg/L	0.008120	0.0406	J
* Lithium, Total	9/29/21 10:00	10/1/21 10:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 11:46		10.15	40.6	mg/L	0.21315	4.06	
* Sodium, Total	9/29/21 10:00	10/1/21 10:12		1.015	25.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 12:14		1.015	0.0362	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 12:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 12:09		1.015	0.00102	mg/L	0.000068	0.000203	
* Barium, Total	9/23/21 10:28	9/24/21 12:09		1.015	0.0582	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 12:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 12:09		1.015	0.000354	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 12:09		1.015	0.00549	mg/L	0.000068	0.000203	
* Potassium, Total	9/23/21 10:28	9/24/21 12:09		1.015	3.37	mg/L	0.169505	0.5075	
* Manganese, Total	9/23/21 10:28	9/24/21 12:09		1.015	0.0132	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 12:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:48		1.015	0.0153	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 18:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	171	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/23/21 10:40	9/27/21 09:26		1	407	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D DUP

Location Code: WMWGASAP
Collected: 9/21/21 10:33
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17692

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	170	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	1.33	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 12:45	9/30/21 12:45		8	55.7	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:30	10/1/21 09:30		1	0.102	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:26	10/6/21 10:26		4	80.7	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/21/21 10:31	9/21/21 10:31			625.29	uS/cm			FA
pH	9/21/21 10:31	9/21/21 10:31			8.08	SU			FA
Temperature	9/21/21 10:31	9/21/21 10:31			21.32	C			FA
Turbidity	9/21/21 10:31	9/21/21 10:31			1.53	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 10:33

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-23D DUP

Laboratory ID Number: BB17692

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB17701	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.0971	0.0972	0.0916	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BB17701	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00397	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	1.01	20.0
BB17701	Potassium, Total	mg/L	0.0396	0.367	10.0	10.2	10.2	10.0	8.50 to 11.5	98.9	70.0 to 130	0.00	20.0
BB17701	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.199	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	1.52	20.0
BB17701	Iron, Total	mg/L	0.000317	0.0176	0.2	1.40	1.38	0.206	0.170 to 0.230	95.0	70.0 to 130	1.44	20.0
BB17701	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0949	0.0941	0.102	0.0850 to 0.115	94.9	70.0 to 130	0.847	20.0
BB17701	Sodium, Total	mg/L	0.000427	0.0660	5.00	16.7	16.6	5.17	4.25 to 5.75	118	70.0 to 130	0.601	20.0
BB17701	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.199	0.199	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BB17701	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0989	0.0988	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.101	20.0
BB17701	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.184	0.182	0.0966	0.0850 to 0.115	102	70.0 to 130	1.09	20.0
BB17701	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB17701	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0989	0.0985	0.0972	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BB17701	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	42.4	41.6	5.16	4.25 to 5.75	96.0	70.0 to 130	1.90	20.0
BB17701	Boron, Total	mg/L	0.00192	0.0650	1.00	1.49	1.50	1.04	0.850 to 1.15	104	70.0 to 130	0.669	20.0
BB17701	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.105	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BB17701	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB17701	Calcium, Total	mg/L	0.00105	0.152	5.00	71.4	69.9	5.06	4.25 to 5.75	82.0	70.0 to 130	2.12	20.0
BB17701	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.111	0.110	0.106	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB17701	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.216	0.218	0.200	0.170 to 0.230	108	70.0 to 130	0.922	20.0
BB17701	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.102	0.0990	0.0917	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BB17701	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17701	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.606	0.605	0.205	0.170 to 0.230	98.0	70.0 to 130	0.165	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 10:33
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-23D DUP

Laboratory ID Number: BB17692

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17701	Sulfate	mg/L	0.0977	1.00	200	338	131	19.5	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17692	Solids, Dissolved	mg/L	-1.00	25.0			414	48.0	40.0 to 60.0			0.853	5.00
BB17701	Chloride	mg/L	0.0264	1.00	10.0	29.1	19.8	9.97	9.00 to 11.0	94.0	80.0 to 120	0.506	20.0
BB17701	Fluoride	mg/L	0.00757	0.100	2.50	2.89	0.0899	2.63	2.25 to 2.75	112	80.0 to 120	1.34	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP
Collected: 9/21/21 12:05
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 10:15		1.015	0.541	mg/L	0.030000	0.1015	
* Calcium, Total	9/29/21 10:00	10/1/21 11:50		10.15	48.9	mg/L	0.70035	4.06	
* Iron, Total	9/29/21 10:00	10/1/21 10:15		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	9/29/21 10:00	10/1/21 10:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 10:15		1.015	23.3	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 10:15		1.015	10.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	9/29/21 10:00	9/29/21 12:18		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 12:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 12:12		1.015	0.000169	mg/L	0.000068	0.000203	J
* Barium, Total	9/23/21 10:28	9/24/21 12:12		1.015	0.0229	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 12:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 12:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 12:12		1.015	0.000306	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 12:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 12:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 12:12		1.015	0.0146	mg/L	0.000068	0.000203	
* Potassium, Total	9/23/21 10:28	9/24/21 12:12		1.015	0.955	mg/L	0.169505	0.5075	
* Manganese, Total	9/23/21 10:28	9/24/21 12:12		1.015	0.0102	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 12:12		1.015	0.000683	mg/L	0.000508	0.001015	J
* Thallium, Total	9/23/21 10:28	9/24/21 12:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:51		1.015	0.00895	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 18:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	192	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638				
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	246	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP
Collected: 9/21/21 12:05
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	192	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.38	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 12:46	9/30/21 12:46		2	20.6	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:32	10/1/21 09:32		1	0.105	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:28	10/6/21 10:28		2	39.6	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/21/21 12:01	9/21/21 12:01			440.02	uS/cm			FA
pH	9/21/21 12:01	9/21/21 12:01			7.27	SU			FA
Temperature	9/21/21 12:01	9/21/21 12:01			21.35	C			FA
Turbidity	9/21/21 12:01	9/21/21 12:01			1.21	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 12:05

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BB17693

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB17701	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.0971	0.0972	0.0916	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BB17701	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00397	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	1.01	20.0
BB17701	Potassium, Total	mg/L	0.0396	0.367	10.0	10.2	10.2	10.0	8.50 to 11.5	98.9	70.0 to 130	0.00	20.0
BB17701	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.199	0.199	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BB17701	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.105	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BB17701	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB17701	Calcium, Total	mg/L	0.00105	0.152	5.00	71.4	69.9	5.06	4.25 to 5.75	82.0	70.0 to 130	2.12	20.0
BB17701	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.111	0.110	0.106	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB17701	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.199	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	1.52	20.0
BB17701	Iron, Total	mg/L	0.000317	0.0176	0.2	1.40	1.38	0.206	0.170 to 0.230	95.0	70.0 to 130	1.44	20.0
BB17701	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0949	0.0941	0.102	0.0850 to 0.115	94.9	70.0 to 130	0.847	20.0
BB17701	Sodium, Total	mg/L	0.000427	0.0660	5.00	16.7	16.6	5.17	4.25 to 5.75	118	70.0 to 130	0.601	20.0
BB17701	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	42.4	41.6	5.16	4.25 to 5.75	96.0	70.0 to 130	1.90	20.0
BB17701	Boron, Total	mg/L	0.00192	0.0650	1.00	1.49	1.50	1.04	0.850 to 1.15	104	70.0 to 130	0.669	20.0
BB17701	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.216	0.218	0.200	0.170 to 0.230	108	70.0 to 130	0.922	20.0
BB17701	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.102	0.0990	0.0917	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BB17701	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17701	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.606	0.605	0.205	0.170 to 0.230	98.0	70.0 to 130	0.165	20.0
BB17701	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0989	0.0988	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.101	20.0
BB17701	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.184	0.182	0.0966	0.0850 to 0.115	102	70.0 to 130	1.09	20.0
BB17701	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB17701	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0989	0.0985	0.0972	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 12:05
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BB17693

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17702	Solids, Dissolved	mg/L	0.0000	25.0			195	50.0	40.0 to 60.0			3.70	5.00
BB17701	Chloride	mg/L	0.0264	1.00	10.0	29.1	19.8	9.97	9.00 to 11.0	94.0	80.0 to 120	0.506	20.0
BB17701	Fluoride	mg/L	0.00757	0.100	2.50	2.89	0.0899	2.63	2.25 to 2.75	112	80.0 to 120	1.34	20.0
BB17701	Sulfate	mg/L	0.0977	1.00	200	338	131	19.5	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 9/21/21 13:00
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17694

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 10:18		1.015	0.129	mg/L	0.030000	0.1015	
* Calcium, Total	9/29/21 10:00	10/1/21 10:18		1.015	22.3	mg/L	0.070035	0.406	
* Iron, Total	9/29/21 10:00	10/1/21 10:18		1.015	0.0147	mg/L	0.008120	0.0406	J
* Lithium, Total	9/29/21 10:00	10/1/21 10:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 10:18		1.015	11.6	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 10:18		1.015	6.66	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 12:21		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 12:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 12:16		1.015	0.000182	mg/L	0.000068	0.000203	J
* Barium, Total	9/23/21 10:28	9/24/21 12:16		1.015	0.0139	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 12:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 12:16		1.015	0.000274	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 12:16		1.015	0.00298	mg/L	0.000068	0.000203	
* Potassium, Total	9/23/21 10:28	9/24/21 12:16		1.015	0.841	mg/L	0.169505	0.5075	
* Manganese, Total	9/23/21 10:28	9/24/21 12:16		1.015	0.00170	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 12:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:55		1.015	0.000326	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 18:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	80.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	114	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 9/21/21 13:00
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17694

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	80.3	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.08	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 12:33	9/30/21 12:33		1	13.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:33	10/1/21 09:33		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:14	10/6/21 10:14		1	12.1	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/21/21 12:57	9/21/21 12:57			216.45	uS/cm			FA
pH	9/21/21 12:57	9/21/21 12:57			6.58	SU			FA
Temperature	9/21/21 12:57	9/21/21 12:57			21.36	C			FA
Turbidity	9/21/21 12:57	9/21/21 12:57			2.47	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 13:00
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BB17694

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB17701	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	42.4	41.6	5.16	4.25 to 5.75	96.0	70.0 to 130	1.90	20.0
BB17701	Boron, Total	mg/L	0.00192	0.0650	1.00	1.49	1.50	1.04	0.850 to 1.15	104	70.0 to 130	0.669	20.0
BB17701	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.199	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	1.52	20.0
BB17701	Iron, Total	mg/L	0.000317	0.0176	0.2	1.40	1.38	0.206	0.170 to 0.230	95.0	70.0 to 130	1.44	20.0
BB17701	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.199	0.199	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BB17701	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0989	0.0988	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.101	20.0
BB17701	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.184	0.182	0.0966	0.0850 to 0.115	102	70.0 to 130	1.09	20.0
BB17701	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB17701	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0989	0.0985	0.0972	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BB17701	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.105	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BB17701	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB17701	Calcium, Total	mg/L	0.00105	0.152	5.00	71.4	69.9	5.06	4.25 to 5.75	82.0	70.0 to 130	2.12	20.0
BB17701	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.111	0.110	0.106	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB17701	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.216	0.218	0.200	0.170 to 0.230	108	70.0 to 130	0.922	20.0
BB17701	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.102	0.0990	0.0917	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BB17701	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17701	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.606	0.605	0.205	0.170 to 0.230	98.0	70.0 to 130	0.165	20.0
BB17701	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.0971	0.0972	0.0916	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BB17701	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00397	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	1.01	20.0
BB17701	Potassium, Total	mg/L	0.0396	0.367	10.0	10.2	10.2	10.0	8.50 to 11.5	98.9	70.0 to 130	0.00	20.0
BB17701	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0949	0.0941	0.102	0.0850 to 0.115	94.9	70.0 to 130	0.847	20.0
BB17701	Sodium, Total	mg/L	0.000427	0.0660	5.00	16.7	16.6	5.17	4.25 to 5.75	118	70.0 to 130	0.601	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 13:00
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BB17694

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17701	Sulfate	mg/L	0.0977	1.00	200	338	131	19.5	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17702	Solids, Dissolved	mg/L	0.0000	25.0			195	50.0	40.0 to 60.0			3.70	5.00
BB17701	Chloride	mg/L	0.0264	1.00	10.0	29.1	19.8	9.97	9.00 to 11.0	94.0	80.0 to 120	0.506	20.0
BB17701	Fluoride	mg/L	0.00757	0.100	2.50	2.89	0.0899	2.63	2.25 to 2.75	112	80.0 to 120	1.34	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP
Collected: 9/22/21 09:30
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 10:22		1.015	1.13	mg/L	0.030000	0.1015	
* Calcium, Total	9/29/21 10:00	10/1/21 11:53		10.15	68.0	mg/L	0.70035	4.06	
* Iron, Total	9/29/21 10:00	10/1/21 10:22		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	9/29/21 10:00	10/1/21 10:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 10:22		1.015	32.8	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 10:22		1.015	19.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 12:24		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 12:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 12:19		1.015	0.000117	mg/L	0.000068	0.000203	J
* Barium, Total	9/23/21 10:28	9/24/21 12:19		1.015	0.0179	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 12:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 12:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 12:19		1.015	0.000325	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 12:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 12:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 12:19		1.015	0.00244	mg/L	0.000068	0.000203	
* Potassium, Total	9/23/21 10:28	9/24/21 12:19		1.015	1.04	mg/L	0.169505	0.5075	
* Manganese, Total	9/23/21 10:28	9/24/21 12:19		1.015	0.000450	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 12:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 12:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 13:59		1.015	0.0000855	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 18:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	177	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	379	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP
Collected: 9/22/21 09:30
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	176	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.83	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 12:47	9/30/21 12:47		3	29.7	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:34	10/1/21 09:34		1	0.0852	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:29	10/6/21 10:29		8	118	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/22/21 09:26	9/22/21 09:26			608.49	uS/cm			FA
pH	9/22/21 09:26	9/22/21 09:26			7.76	SU			FA
Temperature	9/22/21 09:26	9/22/21 09:26			18.33	C			FA
Turbidity	9/22/21 09:26	9/22/21 09:26			0.88	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/22/21 09:30
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BB17695

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB17701	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.199	0.199	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BB17701	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	42.4	41.6	5.16	4.25 to 5.75	96.0	70.0 to 130	1.90	20.0
BB17701	Boron, Total	mg/L	0.00192	0.0650	1.00	1.49	1.50	1.04	0.850 to 1.15	104	70.0 to 130	0.669	20.0
BB17701	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.105	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BB17701	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB17701	Calcium, Total	mg/L	0.00105	0.152	5.00	71.4	69.9	5.06	4.25 to 5.75	82.0	70.0 to 130	2.12	20.0
BB17701	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.111	0.110	0.106	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB17701	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0949	0.0941	0.102	0.0850 to 0.115	94.9	70.0 to 130	0.847	20.0
BB17701	Sodium, Total	mg/L	0.000427	0.0660	5.00	16.7	16.6	5.17	4.25 to 5.75	118	70.0 to 130	0.601	20.0
BB17701	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.199	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	1.52	20.0
BB17701	Iron, Total	mg/L	0.000317	0.0176	0.2	1.40	1.38	0.206	0.170 to 0.230	95.0	70.0 to 130	1.44	20.0
BB17701	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.216	0.218	0.200	0.170 to 0.230	108	70.0 to 130	0.922	20.0
BB17701	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.102	0.0990	0.0917	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BB17701	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17701	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.606	0.605	0.205	0.170 to 0.230	98.0	70.0 to 130	0.165	20.0
BB17701	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.0971	0.0972	0.0916	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BB17701	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00397	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	1.01	20.0
BB17701	Potassium, Total	mg/L	0.0396	0.367	10.0	10.2	10.2	10.0	8.50 to 11.5	98.9	70.0 to 130	0.00	20.0
BB17701	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0989	0.0988	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.101	20.0
BB17701	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.184	0.182	0.0966	0.0850 to 0.115	102	70.0 to 130	1.09	20.0
BB17701	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB17701	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0989	0.0985	0.0972	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/22/21 09:30

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BB17695

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17702	Solids, Dissolved	mg/L	0.0000	25.0			195	50.0	40.0 to 60.0			3.70	5.00
BB17701	Sulfate	mg/L	0.0977	1.00	200	338	131	19.5	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17701	Chloride	mg/L	0.0264	1.00	10.0	29.1	19.8	9.97	9.00 to 11.0	94.0	80.0 to 120	0.506	20.0
BB17701	Fluoride	mg/L	0.00757	0.100	2.50	2.89	0.0899	2.63	2.25 to 2.75	112	80.0 to 120	1.34	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP
Collected: 9/22/21 11:43
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	9/29/21 10:00	10/1/21 10:25		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	9/29/21 10:00	10/1/21 11:56		10.15	42.1	mg/L	0.70035	4.06		
* Iron, Total	9/29/21 10:00	10/1/21 10:25		1.015	0.563	mg/L	0.008120	0.0406		
* Lithium, Total	9/29/21 10:00	10/1/21 10:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	9/29/21 10:00	10/1/21 10:25		1.015	22.5	mg/L	0.021315	0.406		
* Sodium, Total	9/29/21 10:00	10/1/21 10:25		1.015	14.0	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	9/29/21 10:00	9/29/21 12:28		1.015	0.514	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	9/23/21 10:28	9/24/21 12:23		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	9/23/21 10:28	9/24/21 12:23		1.015	0.00221	mg/L	0.000068	0.000203		
* Barium, Total	9/23/21 10:28	9/24/21 12:23		1.015	0.0162	mg/L	0.000102	0.000203		
* Beryllium, Total	9/23/21 10:28	9/24/21 12:23		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	9/23/21 10:28	9/24/21 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	9/23/21 10:28	9/24/21 12:23		1.015	0.000237	mg/L	0.000203	0.001015	J	
* Cobalt, Total	9/23/21 10:28	9/24/21 12:23		1.015	0.000110	mg/L	0.000068	0.000203	J	
* Lead, Total	9/23/21 10:28	9/24/21 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	9/23/21 10:28	9/24/21 12:23		1.015	0.0136	mg/L	0.000068	0.000203		
* Potassium, Total	9/23/21 10:28	9/24/21 12:23		1.015	0.397	mg/L	0.169505	0.5075	J	
* Manganese, Total	9/23/21 10:28	9/24/21 12:23		1.015	0.0128	mg/L	0.000068	0.000203		
* Selenium, Total	9/23/21 10:28	9/24/21 12:23		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	9/23/21 10:28	9/24/21 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	9/23/21 11:35	9/24/21 14:02		1.015	0.0123	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 18:24		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	172	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	218	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP
Collected: 9/22/21 11:43
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	171	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	1.06	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	9/30/21 12:35	9/30/21 12:35		1	12.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:35	10/1/21 09:35		1	0.0965	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:17	10/6/21 10:17		1	25.9	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/22/21 11:40	9/22/21 11:40			401.08	uS/cm			FA
pH	9/22/21 11:40	9/22/21 11:40			7.86	SU			FA
Temperature	9/22/21 11:40	9/22/21 11:40			21.28	C			FA
Turbidity	9/22/21 11:40	9/22/21 11:40			0.63	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/22/21 11:43

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BB17696

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB17701	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.199	0.199	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BB17701	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.0971	0.0972	0.0916	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BB17701	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00397	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	1.01	20.0
BB17701	Potassium, Total	mg/L	0.0396	0.367	10.0	10.2	10.2	10.0	8.50 to 11.5	98.9	70.0 to 130	0.00	20.0
BB17701	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.105	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BB17701	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB17701	Calcium, Total	mg/L	0.00105	0.152	5.00	71.4	69.9	5.06	4.25 to 5.75	82.0	70.0 to 130	2.12	20.0
BB17701	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.111	0.110	0.106	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB17701	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	42.4	41.6	5.16	4.25 to 5.75	96.0	70.0 to 130	1.90	20.0
BB17701	Boron, Total	mg/L	0.00192	0.0650	1.00	1.49	1.50	1.04	0.850 to 1.15	104	70.0 to 130	0.669	20.0
BB17701	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0949	0.0941	0.102	0.0850 to 0.115	94.9	70.0 to 130	0.847	20.0
BB17701	Sodium, Total	mg/L	0.000427	0.0660	5.00	16.7	16.6	5.17	4.25 to 5.75	118	70.0 to 130	0.601	20.0
BB17701	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.216	0.218	0.200	0.170 to 0.230	108	70.0 to 130	0.922	20.0
BB17701	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.102	0.0990	0.0917	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BB17701	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17701	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.606	0.605	0.205	0.170 to 0.230	98.0	70.0 to 130	0.165	20.0
BB17701	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.199	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	1.52	20.0
BB17701	Iron, Total	mg/L	0.000317	0.0176	0.2	1.40	1.38	0.206	0.170 to 0.230	95.0	70.0 to 130	1.44	20.0
BB17701	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0989	0.0988	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.101	20.0
BB17701	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.184	0.182	0.0966	0.0850 to 0.115	102	70.0 to 130	1.09	20.0
BB17701	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB17701	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0989	0.0985	0.0972	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/22/21 11:43
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BB17696

Sample	Analysis	Units	MB	MB			Sample		Standard		Rec			Prec Limit
				Limit	Spike	MS	Duplicate	Standard	Limit	Rec	Limit	Prec		
BB17701	Chloride	mg/L	0.0264	1.00	10.0	29.1	19.8	9.97	9.00 to 11.0	94.0	80.0 to 120	0.506	20.0	
BB17701	Fluoride	mg/L	0.00757	0.100	2.50	2.89	0.0899	2.63	2.25 to 2.75	112	80.0 to 120	1.34	20.0	
BB17701	Sulfate	mg/L	0.0977	1.00	200	338	131	19.5	18.0 to 22.0	104	80.0 to 120	0.00	20.0	
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0	
BB17702	Solids, Dissolved	mg/L	0.0000	25.0			195	50.0	40.0 to 60.0			3.70	5.00	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 9/21/21 10:05
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17697

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 10:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	9/29/21 10:00	10/1/21 10:29		1.015	31.5	mg/L	0.070035	0.406	
* Iron, Total	9/29/21 10:00	10/1/21 10:29		1.015	0.282	mg/L	0.008120	0.0406	
* Lithium, Total	9/29/21 10:00	10/1/21 10:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 10:29		1.015	14.9	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 10:29		1.015	35.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 12:31		1.015	0.274	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 12:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 12:26		1.015	0.00308	mg/L	0.000068	0.000203	
* Barium, Total	9/23/21 10:28	9/24/21 12:26		1.015	0.114	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 12:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 12:26		1.015	0.000323	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 12:26		1.015	0.00102	mg/L	0.000068	0.000203	
* Potassium, Total	9/23/21 10:28	9/24/21 12:26		1.015	0.528	mg/L	0.169505	0.5075	
* Manganese, Total	9/23/21 10:28	9/24/21 12:26		1.015	0.0887	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 12:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 14:06		1.015	0.0873	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 18:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	189	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	205	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 9/21/21 10:05
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17697

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	188	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	1.37	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	9/30/21 12:37	9/30/21 12:37		1	9.17	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:36	10/1/21 09:36		1	0.181	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:18	10/6/21 10:18		1	18.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/21/21 10:02	9/21/21 10:02			370.01	uS/cm			FA
pH	9/21/21 10:02	9/21/21 10:02			7.72	SU			FA
Temperature	9/21/21 10:02	9/21/21 10:02			24.21	C			FA
Turbidity	9/21/21 10:02	9/21/21 10:02			1.12	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 10:05
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BB17697

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BB17701	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.199	0.199	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0	
BB17701	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0989	0.0988	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.101	20.0	
BB17701	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.184	0.182	0.0966	0.0850 to 0.115	102	70.0 to 130	1.09	20.0	
BB17701	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BB17701	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0989	0.0985	0.0972	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0	
BB17701	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.199	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	1.52	20.0	
BB17701	Iron, Total	mg/L	0.000317	0.0176	0.2	1.40	1.38	0.206	0.170 to 0.230	95.0	70.0 to 130	1.44	20.0	
BB17701	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.0971	0.0972	0.0916	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0	
BB17701	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00397	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	1.01	20.0	
BB17701	Potassium, Total	mg/L	0.0396	0.367	10.0	10.2	10.2	10.0	8.50 to 11.5	98.9	70.0 to 130	0.00	20.0	
BB17701	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0949	0.0941	0.102	0.0850 to 0.115	94.9	70.0 to 130	0.847	20.0	
BB17701	Sodium, Total	mg/L	0.000427	0.0660	5.00	16.7	16.6	5.17	4.25 to 5.75	118	70.0 to 130	0.601	20.0	
BB17701	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	42.4	41.6	5.16	4.25 to 5.75	96.0	70.0 to 130	1.90	20.0	
BB17701	Boron, Total	mg/L	0.00192	0.0650	1.00	1.49	1.50	1.04	0.850 to 1.15	104	70.0 to 130	0.669	20.0	
BB17701	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.105	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	1.89	20.0	
BB17701	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0	
BB17701	Calcium, Total	mg/L	0.00105	0.152	5.00	71.4	69.9	5.06	4.25 to 5.75	82.0	70.0 to 130	2.12	20.0	
BB17701	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.111	0.110	0.106	0.0850 to 0.115	106	70.0 to 130	0.905	20.0	
BB17701	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.216	0.218	0.200	0.170 to 0.230	108	70.0 to 130	0.922	20.0	
BB17701	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.102	0.0990	0.0917	0.0850 to 0.115	102	70.0 to 130	2.99	20.0	
BB17701	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BB17701	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.606	0.605	0.205	0.170 to 0.230	98.0	70.0 to 130	0.165	20.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 10:05

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BB17697

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB17702	Solids, Dissolved	mg/L	0.0000	25.0			195	50.0	40.0 to 60.0			3.70	5.00
BB17701	Chloride	mg/L	0.0264	1.00	10.0	29.1	19.8	9.97	9.00 to 11.0	94.0	80.0 to 120	0.506	20.0
BB17701	Fluoride	mg/L	0.00757	0.100	2.50	2.89	0.0899	2.63	2.25 to 2.75	112	80.0 to 120	1.34	20.0
BB17701	Sulfate	mg/L	0.0977	1.00	200	338	131	19.5	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP
Collected: 9/21/21 11:45
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17698

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 10:32		1.015	0.0378	mg/L	0.030000	0.1015	J
* Calcium, Total	9/29/21 10:00	10/1/21 10:32		1.015	38.4	mg/L	0.070035	0.406	
* Iron, Total	9/29/21 10:00	10/1/21 10:32		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	9/29/21 10:00	10/1/21 10:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 10:32		1.015	21.0	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 10:32		1.015	2.87	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	9/29/21 10:00	9/29/21 12:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 12:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 12:30		1.015	0.000239	mg/L	0.000068	0.000203	
* Barium, Total	9/23/21 10:28	9/24/21 12:30		1.015	0.0129	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 12:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 12:30		1.015	0.000253	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 12:30		1.015	0.000183	mg/L	0.000068	0.000203	J
* Potassium, Total	9/23/21 10:28	9/24/21 12:30		1.015	0.232	mg/L	0.169505	0.5075	J
* Manganese, Total	9/23/21 10:28	9/24/21 12:30		1.015	0.00104	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 12:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	9/23/21 11:35	9/24/21 14:09		1.015	0.00141	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 18:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	181	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638				
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	174	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP
Collected: 9/21/21 11:45
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17698

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	180	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	1.07	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	9/30/21 12:38	9/30/21 12:38		1	3.39	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:38	10/1/21 09:38		1	0.0847	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:19	10/6/21 10:19		1	5.56	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/21/21 11:42	9/21/21 11:42			306.13	uS/cm			FA
pH	9/21/21 11:42	9/21/21 11:42			7.02	SU			FA
Temperature	9/21/21 11:42	9/21/21 11:42			22.45	C			FA
Turbidity	9/21/21 11:42	9/21/21 11:42			0.53	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 11:45

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BB17698

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB17701	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.199	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	1.52	20.0
BB17701	Iron, Total	mg/L	0.000317	0.0176	0.2	1.40	1.38	0.206	0.170 to 0.230	95.0	70.0 to 130	1.44	20.0
BB17701	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.199	0.199	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BB17701	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	42.4	41.6	5.16	4.25 to 5.75	96.0	70.0 to 130	1.90	20.0
BB17701	Boron, Total	mg/L	0.00192	0.0650	1.00	1.49	1.50	1.04	0.850 to 1.15	104	70.0 to 130	0.669	20.0
BB17701	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.0971	0.0972	0.0916	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BB17701	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00397	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	1.01	20.0
BB17701	Potassium, Total	mg/L	0.0396	0.367	10.0	10.2	10.2	10.0	8.50 to 11.5	98.9	70.0 to 130	0.00	20.0
BB17701	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0949	0.0941	0.102	0.0850 to 0.115	94.9	70.0 to 130	0.847	20.0
BB17701	Sodium, Total	mg/L	0.000427	0.0660	5.00	16.7	16.6	5.17	4.25 to 5.75	118	70.0 to 130	0.601	20.0
BB17701	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.216	0.218	0.200	0.170 to 0.230	108	70.0 to 130	0.922	20.0
BB17701	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.102	0.0990	0.0917	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BB17701	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17701	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.606	0.605	0.205	0.170 to 0.230	98.0	70.0 to 130	0.165	20.0
BB17701	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.105	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BB17701	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB17701	Calcium, Total	mg/L	0.00105	0.152	5.00	71.4	69.9	5.06	4.25 to 5.75	82.0	70.0 to 130	2.12	20.0
BB17701	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.111	0.110	0.106	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB17701	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0989	0.0988	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.101	20.0
BB17701	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.184	0.182	0.0966	0.0850 to 0.115	102	70.0 to 130	1.09	20.0
BB17701	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB17701	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0989	0.0985	0.0972	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/21/21 11:45
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BB17698

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17702	Solids, Dissolved	mg/L	0.0000	25.0			195	50.0	40.0 to 60.0			3.70	5.00
BB17701	Chloride	mg/L	0.0264	1.00	10.0	29.1	19.8	9.97	9.00 to 11.0	94.0	80.0 to 120	0.506	20.0
BB17701	Fluoride	mg/L	0.00757	0.100	2.50	2.89	0.0899	2.63	2.25 to 2.75	112	80.0 to 120	1.34	20.0
BB17701	Sulfate	mg/L	0.0977	1.00	200	338	131	19.5	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 9/21/21 13:20
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17699

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/29/21 10:00	10/1/21 10:35		1.015	0.283	mg/L	0.030000	0.1015	
* Calcium, Total	9/29/21 10:00	10/1/21 12:00		10.15	40.9	mg/L	0.70035	4.06	
* Iron, Total	9/29/21 10:00	10/1/21 10:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	9/29/21 10:00	10/1/21 10:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/29/21 10:00	10/1/21 10:35		1.015	21.4	mg/L	0.021315	0.406	
* Sodium, Total	9/29/21 10:00	10/1/21 10:35		1.015	6.09	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/29/21 10:00	9/29/21 12:38		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	9/23/21 10:28	9/24/21 12:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	9/23/21 10:28	9/24/21 12:34		1.015	0.000170	mg/L	0.000068	0.000203	J
* Barium, Total	9/23/21 10:28	9/24/21 12:34		1.015	0.00893	mg/L	0.000102	0.000203	
* Beryllium, Total	9/23/21 10:28	9/24/21 12:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	9/23/21 10:28	9/24/21 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	9/23/21 10:28	9/24/21 12:34		1.015	0.000923	mg/L	0.000203	0.001015	J
* Cobalt, Total	9/23/21 10:28	9/24/21 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	9/23/21 10:28	9/24/21 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	9/23/21 10:28	9/24/21 12:34		1.015	0.000264	mg/L	0.000068	0.000203	
* Potassium, Total	9/23/21 10:28	9/24/21 12:34		1.015	0.268	mg/L	0.169505	0.5075	J
* Manganese, Total	9/23/21 10:28	9/24/21 12:34		1.015	0.00119	mg/L	0.000068	0.000203	
* Selenium, Total	9/23/21 10:28	9/24/21 12:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	9/23/21 10:28	9/24/21 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	9/23/21 11:35	9/24/21 14:13		1.015	0.000181	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 18:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	122	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	217	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 9/21/21 13:20
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17699

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	121	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.88	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 12:39	9/30/21 12:39		1	7.14	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:39	10/1/21 09:39		1	0.0847	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:30	10/6/21 10:30		2	55.4	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/21/21 13:15	9/21/21 13:15			342.25	uS/cm			FA
pH	9/21/21 13:15	9/21/21 13:15			7.64	SU			FA
Temperature	9/21/21 13:15	9/21/21 13:15			21.86	C			FA
Turbidity	9/21/21 13:15	9/21/21 13:15			4.64	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 13:20

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BB17699

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB17701	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.105	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BB17701	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB17701	Calcium, Total	mg/L	0.00105	0.152	5.00	71.4	69.9	5.06	4.25 to 5.75	82.0	70.0 to 130	2.12	20.0
BB17701	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.111	0.110	0.106	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB17701	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.199	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	1.52	20.0
BB17701	Iron, Total	mg/L	0.000317	0.0176	0.2	1.40	1.38	0.206	0.170 to 0.230	95.0	70.0 to 130	1.44	20.0
BB17701	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.199	0.199	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BB17701	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.0971	0.0972	0.0916	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BB17701	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00397	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	1.01	20.0
BB17701	Potassium, Total	mg/L	0.0396	0.367	10.0	10.2	10.2	10.0	8.50 to 11.5	98.9	70.0 to 130	0.00	20.0
BB17701	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	42.4	41.6	5.16	4.25 to 5.75	96.0	70.0 to 130	1.90	20.0
BB17701	Boron, Total	mg/L	0.00192	0.0650	1.00	1.49	1.50	1.04	0.850 to 1.15	104	70.0 to 130	0.669	20.0
BB17701	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.216	0.218	0.200	0.170 to 0.230	108	70.0 to 130	0.922	20.0
BB17701	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.102	0.0990	0.0917	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BB17701	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17701	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.606	0.605	0.205	0.170 to 0.230	98.0	70.0 to 130	0.165	20.0
BB17701	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0949	0.0941	0.102	0.0850 to 0.115	94.9	70.0 to 130	0.847	20.0
BB17701	Sodium, Total	mg/L	0.000427	0.0660	5.00	16.7	16.6	5.17	4.25 to 5.75	118	70.0 to 130	0.601	20.0
BB17701	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0989	0.0988	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.101	20.0
BB17701	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.184	0.182	0.0966	0.0850 to 0.115	102	70.0 to 130	1.09	20.0
BB17701	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB17701	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0989	0.0985	0.0972	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 13:20

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BB17699

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17702	Solids, Dissolved	mg/L	0.0000	25.0			195	50.0	40.0 to 60.0			3.70	5.00
BB17701	Sulfate	mg/L	0.0977	1.00	200	338	131	19.5	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17701	Chloride	mg/L	0.0264	1.00	10.0	29.1	19.8	9.97	9.00 to 11.0	94.0	80.0 to 120	0.506	20.0
BB17701	Fluoride	mg/L	0.00757	0.100	2.50	2.89	0.0899	2.63	2.25 to 2.75	112	80.0 to 120	1.34	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 9/21/21 14:52
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17700

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	9/29/21 10:00	10/1/21 10:39		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	9/29/21 10:00	10/1/21 12:03		10.15	51.4	mg/L	0.70035	4.06		
* Iron, Total	9/29/21 10:00	10/1/21 10:39		1.015	0.658	mg/L	0.008120	0.0406		
* Lithium, Total	9/29/21 10:00	10/1/21 10:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	9/29/21 10:00	10/1/21 10:39		1.015	25.5	mg/L	0.021315	0.406		
* Sodium, Total	9/29/21 10:00	10/1/21 10:39		1.015	20.5	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	9/29/21 10:00	9/29/21 12:41		1.015	0.628	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	9/23/21 10:28	9/24/21 12:37		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	9/23/21 10:28	9/24/21 12:37		1.015	0.00120	mg/L	0.000068	0.000203		
* Barium, Total	9/23/21 10:28	9/24/21 12:37		1.015	0.0179	mg/L	0.000102	0.000203		
* Beryllium, Total	9/23/21 10:28	9/24/21 12:37		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	9/23/21 10:28	9/24/21 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	9/23/21 10:28	9/24/21 12:37		1.015	0.000313	mg/L	0.000203	0.001015	J	
* Cobalt, Total	9/23/21 10:28	9/24/21 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	9/23/21 10:28	9/24/21 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	9/23/21 10:28	9/24/21 12:37		1.015	0.000718	mg/L	0.000068	0.000203		
* Potassium, Total	9/23/21 10:28	9/24/21 12:37		1.015	0.336	mg/L	0.169505	0.5075	J	
* Manganese, Total	9/23/21 10:28	9/24/21 12:37		1.015	0.0286	mg/L	0.000068	0.000203		
* Selenium, Total	9/23/21 10:28	9/24/21 12:37		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	9/23/21 10:28	9/24/21 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	9/23/21 11:35	9/24/21 14:17		1.015	0.0298	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 18:40		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	257	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	256	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 9/21/21 14:52
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17700

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	256	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.82	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 12:40	9/30/21 12:40		1	3.80	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:40	10/1/21 09:40		1	0.132	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:22	10/6/21 10:22		1	1.95	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/21/21 14:49	9/21/21 14:49			434.13	uS/cm			FA
pH	9/21/21 14:49	9/21/21 14:49			7.30	SU			FA
Temperature	9/21/21 14:49	9/21/21 14:49			23.66	C			FA
Turbidity	9/21/21 14:49	9/21/21 14:49			1.57	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 14:52

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BB17700

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB17701	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.199	0.199	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BB17701	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	42.4	41.6	5.16	4.25 to 5.75	96.0	70.0 to 130	1.90	20.0
BB17701	Boron, Total	mg/L	0.00192	0.0650	1.00	1.49	1.50	1.04	0.850 to 1.15	104	70.0 to 130	0.669	20.0
BB17701	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.105	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BB17701	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB17701	Calcium, Total	mg/L	0.00105	0.152	5.00	71.4	69.9	5.06	4.25 to 5.75	82.0	70.0 to 130	2.12	20.0
BB17701	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.111	0.110	0.106	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB17701	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.199	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	1.52	20.0
BB17701	Iron, Total	mg/L	0.000317	0.0176	0.2	1.40	1.38	0.206	0.170 to 0.230	95.0	70.0 to 130	1.44	20.0
BB17701	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0949	0.0941	0.102	0.0850 to 0.115	94.9	70.0 to 130	0.847	20.0
BB17701	Sodium, Total	mg/L	0.000427	0.0660	5.00	16.7	16.6	5.17	4.25 to 5.75	118	70.0 to 130	0.601	20.0
BB17701	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.0971	0.0972	0.0916	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BB17701	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00397	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	1.01	20.0
BB17701	Potassium, Total	mg/L	0.0396	0.367	10.0	10.2	10.2	10.0	8.50 to 11.5	98.9	70.0 to 130	0.00	20.0
BB17701	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.216	0.218	0.200	0.170 to 0.230	108	70.0 to 130	0.922	20.0
BB17701	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.102	0.0990	0.0917	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BB17701	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17701	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.606	0.605	0.205	0.170 to 0.230	98.0	70.0 to 130	0.165	20.0
BB17701	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0989	0.0988	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.101	20.0
BB17701	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.184	0.182	0.0966	0.0850 to 0.115	102	70.0 to 130	1.09	20.0
BB17701	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB17701	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0989	0.0985	0.0972	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/21/21 14:52

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BB17700

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17701	Chloride	mg/L	0.0264	1.00	10.0	29.1	19.8	9.97	9.00 to 11.0	94.0	80.0 to 120	0.506	20.0
BB17701	Fluoride	mg/L	0.00757	0.100	2.50	2.89	0.0899	2.63	2.25 to 2.75	112	80.0 to 120	1.34	20.0
BB17702	Solids, Dissolved	mg/L	0.0000	25.0			195	50.0	40.0 to 60.0			3.70	5.00
BB17701	Sulfate	mg/L	0.0977	1.00	200	338	131	19.5	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 9/22/21 09:50
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17701

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	9/29/21 10:00	10/1/21 10:42		1.015	0.447	mg/L	0.030000	0.1015		
* Calcium, Total	9/29/21 10:00	10/1/21 12:13		10.15	67.3	mg/L	0.70035	4.06	RA	
* Iron, Total	9/29/21 10:00	10/1/21 10:42		1.015	1.21	mg/L	0.008120	0.0406		
* Lithium, Total	9/29/21 10:00	10/1/21 10:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	9/29/21 10:00	10/1/21 10:42		1.015	37.6	mg/L	0.021315	0.406		
* Sodium, Total	9/29/21 10:00	10/1/21 10:42		1.015	10.8	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	9/29/21 10:00	9/29/21 12:45		1.015	0.410	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	9/23/21 10:28	9/24/21 12:41		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	9/23/21 10:28	9/24/21 12:41		1.015	0.00529	mg/L	0.000068	0.000203		
* Barium, Total	9/23/21 10:28	9/24/21 12:41		1.015	0.0815	mg/L	0.000102	0.000203		
* Beryllium, Total	9/23/21 10:28	9/24/21 12:41		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	9/23/21 10:28	9/24/21 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	9/23/21 10:28	9/24/21 12:41		1.015	0.000394	mg/L	0.000203	0.001015	J	
* Cobalt, Total	9/23/21 10:28	9/24/21 12:41		1.015	0.000156	mg/L	0.000068	0.000203	J	
* Lead, Total	9/23/21 10:28	9/24/21 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	9/23/21 10:28	9/24/21 12:41		1.015	0.000296	mg/L	0.000068	0.000203		
* Potassium, Total	9/23/21 10:28	9/24/21 12:41		1.015	0.310	mg/L	0.169505	0.5075	J	
* Manganese, Total	9/23/21 10:28	9/24/21 12:41		1.015	0.0995	mg/L	0.000068	0.000203		
* Selenium, Total	9/23/21 10:28	9/24/21 12:41		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	9/23/21 10:28	9/24/21 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	9/23/21 11:35	9/24/21 14:20		1.015	0.0986	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 18:44		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	9/29/21 11:15	9/29/21 12:06		1	200	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	375	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 9/22/21 09:50
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17701

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	199	mg/L			
Carbonate Alkalinity, (calc.)	9/29/21 11:15	9/29/21 12:06		1	0.68	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 12:41	9/30/21 12:41		1	19.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:41	10/1/21 09:41		1	0.0887	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:39	10/6/21 10:39		10	131	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/22/21 09:45	9/22/21 09:45			544.05	uS/cm			FA
pH	9/22/21 09:45	9/22/21 09:45			7.48	SU			FA
Temperature	9/22/21 09:45	9/22/21 09:45			22.80	C			FA
Turbidity	9/22/21 09:45	9/22/21 09:45			2	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/22/21 09:50
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BB17701

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB17701	Manganese, Total	mg/L	-0.0000060	0.000147	0.100	0.199	0.199	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BB17701	Molybdenum, Total	mg/L	0.0000191	0.000147	0.100	0.0971	0.0972	0.0916	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BB17701	Mercury, Total by CVAA	mg/L	-2.000E-05	0.000500	0.004	0.00393	0.00397	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	1.01	20.0
BB17701	Potassium, Total	mg/L	0.0396	0.367	10.0	10.2	10.2	10.0	8.50 to 11.5	98.9	70.0 to 130	0.00	20.0
BB17701	Manganese, Dissolved	mg/L	-0.0000039	0.000147	0.100	0.199	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	1.52	20.0
BB17701	Iron, Total	mg/L	0.000317	0.0176	0.2	1.40	1.38	0.206	0.170 to 0.230	95.0	70.0 to 130	1.44	20.0
BB17701	Magnesium, Total	mg/L	-0.00136	0.0462	5.00	42.4	41.6	5.16	4.25 to 5.75	96.0	70.0 to 130	1.90	20.0
BB17701	Boron, Total	mg/L	0.00192	0.0650	1.00	1.49	1.50	1.04	0.850 to 1.15	104	70.0 to 130	0.669	20.0
BB17701	Lead, Total	mg/L	0.0000019	0.000147	0.100	0.105	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BB17701	Thallium, Total	mg/L	-0.0000934	0.000147	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB17701	Calcium, Total	mg/L	0.00105	0.152	5.00	71.4	69.9	5.06	4.25 to 5.75	82.0	70.0 to 130	2.12	20.0
BB17701	Arsenic, Total	mg/L	0.0000147	0.000147	0.100	0.111	0.110	0.106	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB17701	Lithium, Total	mg/L	-5.540E-05	0.0154	0.200	0.216	0.218	0.200	0.170 to 0.230	108	70.0 to 130	0.922	20.0
BB17701	Antimony, Total	mg/L	0.000121	0.00100	0.100	0.102	0.0990	0.0917	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BB17701	Selenium, Total	mg/L	-0.0000082	0.00100	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17701	Iron, Dissolved	mg/L	0.000197	0.0176	0.2	0.606	0.605	0.205	0.170 to 0.230	98.0	70.0 to 130	0.165	20.0
BB17701	Cobalt, Total	mg/L	-0.0000243	0.000147	0.100	0.0989	0.0988	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.101	20.0
BB17701	Barium, Total	mg/L	0.0000263	0.000200	0.100	0.184	0.182	0.0966	0.0850 to 0.115	102	70.0 to 130	1.09	20.0
BB17701	Chromium, Total	mg/L	0.000124	0.000440	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB17701	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0989	0.0985	0.0972	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BB17701	Beryllium, Total	mg/L	0.0000147	0.000880	0.100	0.0949	0.0941	0.102	0.0850 to 0.115	94.9	70.0 to 130	0.847	20.0
BB17701	Sodium, Total	mg/L	0.000427	0.0660	5.00	16.7	16.6	5.17	4.25 to 5.75	118	70.0 to 130	0.601	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/22/21 09:50

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BB17701

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB17701	Sulfate	mg/L	0.0977	1.00	200	338	131	19.5	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BB17701	Alkalinity, Total as CaCO3	mg/L					203	52.9	45.0 to 55.0			1.49	10.0
BB17702	Solids, Dissolved	mg/L	0.0000	25.0			195	50.0	40.0 to 60.0			3.70	5.00
BB17701	Chloride	mg/L	0.0264	1.00	10.0	29.1	19.8	9.97	9.00 to 11.0	94.0	80.0 to 120	0.506	20.0
BB17701	Fluoride	mg/L	0.00757	0.100	2.50	2.89	0.0899	2.63	2.25 to 2.75	112	80.0 to 120	1.34	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP
Collected: 9/22/21 11:25
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17702

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	9/29/21 10:00	10/1/21 11:06		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	9/29/21 10:00	10/1/21 12:23		10.15	46.6	mg/L	0.70035	4.06		
* Iron, Total	9/29/21 10:00	10/1/21 11:06		1.015	0.438	mg/L	0.008120	0.0406		
* Lithium, Total	9/29/21 10:00	10/1/21 11:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	9/29/21 10:00	10/1/21 11:06		1.015	24.2	mg/L	0.021315	0.406		
* Sodium, Total	9/29/21 10:00	10/1/21 11:06		1.015	4.58	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	9/29/21 10:00	9/29/21 13:08		1.015	0.394	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	9/23/21 10:28	9/24/21 13:09		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	9/23/21 10:28	9/24/21 13:09		1.015	0.000523	mg/L	0.000068	0.000203		
* Barium, Total	9/23/21 10:28	9/24/21 13:09		1.015	0.0444	mg/L	0.000102	0.000203		
* Beryllium, Total	9/23/21 10:28	9/24/21 13:09		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	9/23/21 10:28	9/24/21 13:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	9/23/21 10:28	9/24/21 13:09		1.015	0.000318	mg/L	0.000203	0.001015	J	
* Cobalt, Total	9/23/21 10:28	9/24/21 13:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	9/23/21 10:28	9/24/21 13:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	9/23/21 10:28	9/24/21 13:09		1.015	0.000312	mg/L	0.000068	0.000203		
* Potassium, Total	9/23/21 10:28	9/24/21 13:09		1.015	0.300	mg/L	0.169505	0.5075	J	
* Manganese, Total	9/23/21 10:28	9/24/21 13:09		1.015	0.102	mg/L	0.000068	0.000203		
* Selenium, Total	9/23/21 10:28	9/24/21 13:09		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	9/23/21 10:28	9/24/21 13:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	9/23/21 11:35	9/24/21 14:49		1.015	0.125	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 19:11		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	217	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	210	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP
Collected: 9/22/21 11:25
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17702

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	216	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.81	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 12:58	9/30/21 12:58		1	4.80	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:55	10/1/21 09:55		1	0.117	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:50	10/6/21 10:50		1	0.521	mg/L	0.50	1	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/22/21 11:21	9/22/21 11:21			352.92	uS/cm			FA
pH	9/22/21 11:21	9/22/21 11:21			7.59	SU			FA
Temperature	9/22/21 11:21	9/22/21 11:21			22.65	C			FA
Turbidity	9/22/21 11:21	9/22/21 11:21			1.03	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/22/21 11:25
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BB17702

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB17703	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB17703	Antimony, Total	mg/L	0.000149	0.00100	0.100	0.0917	0.0911	0.0951	0.0850 to 0.115	91.7	70.0 to 130	0.656	20.0
BB17703	Thallium, Total	mg/L	-0.0000938	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BB17703	Molybdenum, Total	mg/L	0.0000250	0.000147	0.100	0.0940	0.0959	0.0990	0.0850 to 0.115	93.5	70.0 to 130	2.00	20.0
BB17703	Chromium, Total	mg/L	0.0000240	0.000440	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB17703	Barium, Total	mg/L	0.0000084	0.000200	0.100	0.171	0.169	0.0990	0.0850 to 0.115	97.1	70.0 to 130	1.18	20.0
BB17703	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00385	0.00398	0.00392	0.00340 to 0.00460	96.2	70.0 to 130	3.32	20.0
BB17703	Iron, Total	mg/L	0.000126	0.0176	0.2	0.910	0.918	0.204	0.170 to 0.230	96.0	70.0 to 130	0.875	20.0
BB17703	Calcium, Total	mg/L	0.00105	0.152	5.00	83.2	84.4	5.01	4.25 to 5.75	64.0	70.0 to 130	1.43	20.0
BB17703	Boron, Total	mg/L	0.00145	0.0650	1.00	1.05	1.05	1.02	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BB17703	Selenium, Total	mg/L	0.0000068	0.00100	0.100	0.0990	0.100	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BB17703	Sodium, Total	mg/L	0.000101	0.0660	5.00	21.2	21.2	5.13	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB17703	Iron, Dissolved	mg/L	0.000222	0.0176	0.2	1.08	1.06	0.206	0.170 to 0.230	106	70.0 to 130	1.87	20.0
BB17703	Manganese, Total	mg/L	-0.0000071	0.000147	0.100	0.167	0.166	0.104	0.0850 to 0.115	102	70.0 to 130	0.601	20.0
BB17703	Magnesium, Total	mg/L	-0.000878	0.0462	5.00	34.4	34.6	5.09	4.25 to 5.75	98.0	70.0 to 130	0.580	20.0
BB17703	Manganese, Dissolved	mg/L	-0.0000184	0.000147	0.100	0.169	0.169	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17703	Cobalt, Total	mg/L	-0.0000253	0.000147	0.100	0.0996	0.0982	0.104	0.0850 to 0.115	99.6	70.0 to 130	1.42	20.0
BB17703	Potassium, Total	mg/L	0.0314	0.367	10.0	10.5	10.5	9.91	8.50 to 11.5	98.5	70.0 to 130	0.00	20.0
BB17703	Lithium, Total	mg/L	-7.270E-05	0.0154	0.200	0.225	0.224	0.199	0.170 to 0.230	112	70.0 to 130	0.445	20.0
BB17703	Beryllium, Total	mg/L	0.0000073	0.000880	0.100	0.0941	0.0903	0.0945	0.0850 to 0.115	94.1	70.0 to 130	4.12	20.0
BB17703	Arsenic, Total	mg/L	-0.0000014	0.000147	0.100	0.105	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	2.90	20.0
BB17703	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0947	0.101	0.0991	0.0850 to 0.115	94.7	70.0 to 130	6.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/22/21 11:25

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BB17702

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18017	Chloride	mg/L	0.0773	1.00	40.0	68.9	28.0	9.95	9.00 to 11.0	101	80.0 to 120	2.12	20.0
BB17702	Solids, Dissolved	mg/L	0.0000	25.0			195	50.0	40.0 to 60.0			3.70	5.00
BB18017	Sulfate	mg/L	0.147	1.00	160	275	112	19.4	18.0 to 22.0	95.6	80.0 to 120	8.55	20.0
BB18017	Fluoride	mg/L	0.00586	0.100	2.50	2.89	0.0947	2.65	2.25 to 2.75	112	80.0 to 120	5.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 9/22/21 13:05
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17703

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	9/29/21 10:00	10/1/21 11:09		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	9/29/21 10:00	10/1/21 12:27		10.15	80.0	mg/L	0.70035	4.06	RA	
* Iron, Total	9/29/21 10:00	10/1/21 11:09		1.015	0.718	mg/L	0.008120	0.0406		
* Lithium, Total	9/29/21 10:00	10/1/21 11:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	9/29/21 10:00	10/1/21 11:09		1.015	29.5	mg/L	0.021315	0.406		
* Sodium, Total	9/29/21 10:00	10/1/21 11:09		1.015	15.3	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	9/29/21 10:00	9/29/21 13:12		1.015	0.869	mg/L	0.008120	0.0406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	9/23/21 10:28	9/24/21 13:13		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	9/23/21 10:28	9/24/21 13:13		1.015	0.000574	mg/L	0.000068	0.000203		
* Barium, Total	9/23/21 10:28	9/24/21 13:13		1.015	0.0739	mg/L	0.000102	0.000203		
* Beryllium, Total	9/23/21 10:28	9/24/21 13:13		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	9/23/21 10:28	9/24/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	9/23/21 10:28	9/24/21 13:13		1.015	0.000302	mg/L	0.000203	0.001015	J	
* Cobalt, Total	9/23/21 10:28	9/24/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	9/23/21 10:28	9/24/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	9/23/21 10:28	9/24/21 13:13		1.015	0.000522	mg/L	0.000068	0.000203		
* Potassium, Total	9/23/21 10:28	9/24/21 13:13		1.015	0.648	mg/L	0.169505	0.5075		
* Manganese, Total	9/23/21 10:28	9/24/21 13:13		1.015	0.0650	mg/L	0.000068	0.000203		
* Selenium, Total	9/23/21 10:28	9/24/21 13:13		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	9/23/21 10:28	9/24/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	9/23/21 11:35	9/24/21 14:53		1.015	0.0666	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	9/28/21 13:08	9/28/21 19:15		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	263	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638					
* Solids, Dissolved	9/24/21 10:46	9/27/21 13:12		1	394	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 9/22/21 13:05
Customer ID:
Submittal Date: 9/22/21 15:00

Laboratory ID Number: BB17703

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	262	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.69	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	9/30/21 13:00	9/30/21 13:00		1	3.50	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:56	10/1/21 09:56		1	0.149	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 11:05	10/6/21 11:05		5	116	mg/L	2.50	5	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/22/21 13:01	9/22/21 13:01			435.61	uS/cm			FA
pH	9/22/21 13:01	9/22/21 13:01			7.50	SU			FA
Temperature	9/22/21 13:01	9/22/21 13:01			21.21	C			FA
Turbidity	9/22/21 13:01	9/22/21 13:01			0.57	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/22/21 13:05
Customer ID:
Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BB17703

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB17703	Antimony, Total	mg/L	0.000149	0.00100	0.100	0.0917	0.0911	0.0951	0.0850 to 0.115	91.7	70.0 to 130	0.656	20.0
BB17703	Lead, Total	mg/L	0.0000026	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB17703	Iron, Total	mg/L	0.000126	0.0176	0.2	0.910	0.918	0.204	0.170 to 0.230	96.0	70.0 to 130	0.875	20.0
BB17703	Calcium, Total	mg/L	0.00105	0.152	5.00	83.2	84.4	5.01	4.25 to 5.75	64.0	70.0 to 130	1.43	20.0
BB17703	Boron, Total	mg/L	0.00145	0.0650	1.00	1.05	1.05	1.02	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BB17703	Thallium, Total	mg/L	-0.0000938	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BB17703	Molybdenum, Total	mg/L	0.0000250	0.000147	0.100	0.0940	0.0959	0.0990	0.0850 to 0.115	93.5	70.0 to 130	2.00	20.0
BB17703	Chromium, Total	mg/L	0.0000240	0.000440	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB17703	Barium, Total	mg/L	0.0000084	0.000200	0.100	0.171	0.169	0.0990	0.0850 to 0.115	97.1	70.0 to 130	1.18	20.0
BB17703	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00385	0.00398	0.00392	0.00340 to 0.00460	96.2	70.0 to 130	3.32	20.0
BB17703	Selenium, Total	mg/L	0.0000068	0.00100	0.100	0.0990	0.100	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BB17703	Sodium, Total	mg/L	0.000101	0.0660	5.00	21.2	21.2	5.13	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB17703	Iron, Dissolved	mg/L	0.000222	0.0176	0.2	1.08	1.06	0.206	0.170 to 0.230	106	70.0 to 130	1.87	20.0
BB17703	Manganese, Total	mg/L	-0.0000071	0.000147	0.100	0.167	0.166	0.104	0.0850 to 0.115	102	70.0 to 130	0.601	20.0
BB17703	Magnesium, Total	mg/L	-0.000878	0.0462	5.00	34.4	34.6	5.09	4.25 to 5.75	98.0	70.0 to 130	0.580	20.0
BB17703	Manganese, Dissolved	mg/L	-0.0000184	0.000147	0.100	0.169	0.169	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB17703	Cobalt, Total	mg/L	-0.0000253	0.000147	0.100	0.0996	0.0982	0.104	0.0850 to 0.115	99.6	70.0 to 130	1.42	20.0
BB17703	Potassium, Total	mg/L	0.0314	0.367	10.0	10.5	10.5	9.91	8.50 to 11.5	98.5	70.0 to 130	0.00	20.0
BB17703	Lithium, Total	mg/L	-7.270E-05	0.0154	0.200	0.225	0.224	0.199	0.170 to 0.230	112	70.0 to 130	0.445	20.0
BB17703	Beryllium, Total	mg/L	0.0000073	0.000880	0.100	0.0941	0.0903	0.0945	0.0850 to 0.115	94.1	70.0 to 130	4.12	20.0
BB17703	Arsenic, Total	mg/L	-0.0000014	0.000147	0.100	0.105	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	2.90	20.0
BB17703	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0947	0.101	0.0991	0.0850 to 0.115	94.7	70.0 to 130	6.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/22/21 13:05

Customer ID:

Delivery Date: 9/22/21 15:00

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BB17703

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18017	Chloride	mg/L	0.0773	1.00	40.0	68.9	28.0	9.95	9.00 to 11.0	101	80.0 to 120	2.12	20.0
BB18017	Sulfate	mg/L	0.147	1.00	160	275	112	19.4	18.0 to 22.0	95.6	80.0 to 120	8.55	20.0
BB17703	Solids, Dissolved	mg/L	0.0000	25.0			395	50.0	40.0 to 60.0			0.127	5.00
BB18017	Fluoride	mg/L	0.00586	0.100	2.50	2.89	0.0947	2.65	2.25 to 2.75	112	80.0 to 120	5.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 9/27/21 11:31
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18010

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 09:37		1.015	0.149	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 12:45		10.15	54.4	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 09:37		1.015	0.0227	mg/L	0.008120	0.0406	J
* Lithium, Total	10/4/21 10:00	10/7/21 09:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 09:37		1.015	30.2	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 09:37		1.015	7.42	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 12:35		1.015	0.0161	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 10:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 10:26		1.015	0.000177	mg/L	0.000068	0.000203	J
* Barium, Total	10/4/21 15:05	10/5/21 10:26		1.015	0.0155	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 10:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 10:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 10:26		1.015	0.000822	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 10:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 10:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 10:26		1.015	0.000264	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 10:26		1.015	0.786	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 10:26		1.015	0.00754	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 10:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 10:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 11:20		1.015	0.00792	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 17:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	258	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	237	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 9/27/21 11:31
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18010

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	257	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.73	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:01	9/30/21 13:01		1	11.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:58	10/1/21 09:58		1	0.0702	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:53	10/6/21 10:53		1	14.3	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/27/21 11:28	9/27/21 11:28			474.36	uS/cm			FA
pH	9/27/21 11:28	9/27/21 11:28			7.37	SU			FA
Temperature	9/27/21 11:28	9/27/21 11:28			21.00	C			FA
Turbidity	9/27/21 11:28	9/27/21 11:28			3.13	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 11:31

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BB18010

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB18019	Iron, Total	mg/L	0.000314	0.0176	0.2	0.248	0.253	0.204	0.170 to 0.230	96.0	70.0 to 130	2.00	20.0
BB18020	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.209	0.199	0.204	0.170 to 0.230	104	70.0 to 130	4.90	20.0
BB18020	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.123	0.126	0.107	0.0850 to 0.115	98.8	70.0 to 130	2.41	20.0
BB18019	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.103	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BB18019	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.171	0.172	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.583	20.0
BB18019	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.104	0.0977	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BB18019	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	0.930	20.0
BB18019	Potassium, Total	mg/L	0.0167	0.367	10.0	11.2	11.4	10.2	8.50 to 11.5	96.5	70.0 to 130	1.77	20.0
BB18019	Boron, Total	mg/L	0.000620	0.0650	1.00	2.70	2.70	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB18019	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.144	0.146	0.101	0.0850 to 0.115	103	70.0 to 130	1.38	20.0
BB18019	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.109	0.110	0.108	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BB18019	Calcium, Total	mg/L	0.000648	0.152	5.00	79.5	77.3	5.01	4.25 to 5.75	122	70.0 to 130	2.81	20.0
BB18019	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB18019	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00395	0.00396	0.00393	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BB18019	Sodium, Total	mg/L	0.000384	0.0660	5.00	28.7	28.7	5.00	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB18019	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.0991	0.0993	0.0961	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BB18019	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.215	0.217	0.195	0.170 to 0.230	108	70.0 to 130	0.926	20.0
BB18019	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0957	0.0980	0.0944	0.0850 to 0.115	95.7	70.0 to 130	2.37	20.0
BB18019	Magnesium, Total	mg/L	0.000371	0.0462	5.00	35.4	35.7	5.09	4.25 to 5.75	94.0	70.0 to 130	0.844	20.0
BB18019	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	0.110	0.110	0.0962	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18019	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.106	0.109	0.105	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB18019	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0921	0.0961	0.0926	0.0850 to 0.115	92.1	70.0 to 130	4.25	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 11:31

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BB18010

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18017	Sulfate	mg/L	0.147	1.00	160	275	112	19.4	18.0 to 22.0	95.6	80.0 to 120	8.55	20.0
BB18017	Fluoride	mg/L	0.00586	0.100	2.50	2.89	0.0947	2.65	2.25 to 2.75	112	80.0 to 120	5.44	20.0
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18017	Chloride	mg/L	0.0773	1.00	40.0	68.9	28.0	9.95	9.00 to 11.0	101	80.0 to 120	2.12	20.0
BB18019	Solids, Dissolved	mg/L	1.00	25.0			424	47.0	40.0 to 60.0			2.19	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 9/27/21 13:16
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18011

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	10/4/21 10:00	10/7/21 09:40		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/4/21 10:00	10/7/21 09:40		1.015	30.7	mg/L	0.070035	0.406		
* Iron, Total	10/4/21 10:00	10/7/21 09:40		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/4/21 10:00	10/7/21 09:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/4/21 10:00	10/7/21 09:40		1.015	16.9	mg/L	0.021315	0.406		
* Sodium, Total	10/4/21 10:00	10/7/21 09:40		1.015	2.63	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	10/4/21 10:00	10/6/21 12:39		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/4/21 15:05	10/5/21 10:29		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	10/4/21 15:05	10/5/21 10:29		1.015	0.000731	mg/L	0.000068	0.000203		
* Barium, Total	10/4/21 15:05	10/5/21 10:29		1.015	0.0210	mg/L	0.000102	0.000203		
* Beryllium, Total	10/4/21 15:05	10/5/21 10:29		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/4/21 15:05	10/5/21 10:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/4/21 15:05	10/5/21 10:29		1.015	0.000499	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/4/21 15:05	10/5/21 10:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/4/21 15:05	10/5/21 10:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	10/4/21 15:05	10/5/21 10:29		1.015	0.00469	mg/L	0.000068	0.000203		
* Potassium, Total	10/4/21 15:05	10/5/21 10:29		1.015	0.259	mg/L	0.169505	0.5075	J	
* Manganese, Total	10/4/21 15:05	10/5/21 10:29		1.015	0.00351	mg/L	0.000068	0.000203		
* Selenium, Total	10/4/21 15:05	10/5/21 10:29		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/4/21 15:05	10/5/21 10:29		1.015	0.0000813	mg/L	0.000068	0.000203	J	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	10/4/21 10:17	10/4/21 11:24		1.015	0.00213	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: CRB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 17:44		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	159	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638					
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	132	mg/L		25		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 9/27/21 13:16
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18011

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	158	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	1.10	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:02	9/30/21 13:02		1	1.90	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 09:59	10/1/21 09:59		1	0.0805	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:54	10/6/21 10:54		1	2.76	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/27/21 13:13	9/27/21 13:13			258.75	uS/cm			FA
pH	9/27/21 13:13	9/27/21 13:13			7.81	SU			FA
Temperature	9/27/21 13:13	9/27/21 13:13			24.60	C			FA
Turbidity	9/27/21 13:13	9/27/21 13:13			1.97	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 13:16

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BB18011

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB18019	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	0.930	20.0
BB18019	Potassium, Total	mg/L	0.0167	0.367	10.0	11.2	11.4	10.2	8.50 to 11.5	96.5	70.0 to 130	1.77	20.0
BB18019	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.171	0.172	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.583	20.0
BB18019	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.104	0.0977	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BB18019	Iron, Total	mg/L	0.000314	0.0176	0.2	0.248	0.253	0.204	0.170 to 0.230	96.0	70.0 to 130	2.00	20.0
BB18020	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.209	0.199	0.204	0.170 to 0.230	104	70.0 to 130	4.90	20.0
BB18020	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.123	0.126	0.107	0.0850 to 0.115	98.8	70.0 to 130	2.41	20.0
BB18019	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.103	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BB18019	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00395	0.00396	0.00393	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BB18019	Sodium, Total	mg/L	0.000384	0.0660	5.00	28.7	28.7	5.00	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB18019	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.0991	0.0993	0.0961	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BB18019	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.106	0.109	0.105	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB18019	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0921	0.0961	0.0926	0.0850 to 0.115	92.1	70.0 to 130	4.25	20.0
BB18019	Boron, Total	mg/L	0.000620	0.0650	1.00	2.70	2.70	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB18019	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.144	0.146	0.101	0.0850 to 0.115	103	70.0 to 130	1.38	20.0
BB18019	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.109	0.110	0.108	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BB18019	Calcium, Total	mg/L	0.000648	0.152	5.00	79.5	77.3	5.01	4.25 to 5.75	122	70.0 to 130	2.81	20.0
BB18019	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB18019	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.215	0.217	0.195	0.170 to 0.230	108	70.0 to 130	0.926	20.0
BB18019	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0957	0.0980	0.0944	0.0850 to 0.115	95.7	70.0 to 130	2.37	20.0
BB18019	Magnesium, Total	mg/L	0.000371	0.0462	5.00	35.4	35.7	5.09	4.25 to 5.75	94.0	70.0 to 130	0.844	20.0
BB18019	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	0.110	0.110	0.0962	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 13:16

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BB18011

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18017	Sulfate	mg/L	0.147	1.00	160	275	112	19.4	18.0 to 22.0	95.6	80.0 to 120	8.55	20.0
BB18017	Fluoride	mg/L	0.00586	0.100	2.50	2.89	0.0947	2.65	2.25 to 2.75	112	80.0 to 120	5.44	20.0
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18017	Chloride	mg/L	0.0773	1.00	40.0	68.9	28.0	9.95	9.00 to 11.0	101	80.0 to 120	2.12	20.0
BB18019	Solids, Dissolved	mg/L	1.00	25.0			424	47.0	40.0 to 60.0			2.19	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP
Collected: 9/27/21 14:45
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18012

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 09:43		1.015	0.401	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 12:48		10.15	59.6	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 09:43		1.015	0.0532	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 09:43		1.015	0.0706	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 09:43		1.015	25.1	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 12:48		10.15	60.5	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 12:42		1.015	0.0302	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 10:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 10:33		1.015	0.00523	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 10:33		1.015	0.0631	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 10:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 10:33		1.015	0.000288	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 10:33		1.015	0.0407	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 10:33		1.015	4.58	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 10:33		1.015	0.156	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 10:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 11:28		1.015	0.156	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 17:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	163	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	447	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP
Collected: 9/27/21 14:45
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18012

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	162	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.68	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:13	9/30/21 13:13		3	38.1	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:00	10/1/21 10:00		1	0.245	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 11:06	10/6/21 11:06		8	150	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/27/21 14:42	9/27/21 14:42			738.65	uS/cm			FA
pH	9/27/21 14:42	9/27/21 14:42			8.14	SU			FA
Temperature	9/27/21 14:42	9/27/21 14:42			26.64	C			FA
Turbidity	9/27/21 14:42	9/27/21 14:42			2.96	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 14:45

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BB18012

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB18019	Iron, Total	mg/L	0.000314	0.0176	0.2	0.248	0.253	0.204	0.170 to 0.230	96.0	70.0 to 130	2.00	20.0
BB18020	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.209	0.199	0.204	0.170 to 0.230	104	70.0 to 130	4.90	20.0
BB18020	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.123	0.126	0.107	0.0850 to 0.115	98.8	70.0 to 130	2.41	20.0
BB18019	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.103	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BB18019	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.215	0.217	0.195	0.170 to 0.230	108	70.0 to 130	0.926	20.0
BB18019	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0957	0.0980	0.0944	0.0850 to 0.115	95.7	70.0 to 130	2.37	20.0
BB18019	Magnesium, Total	mg/L	0.000371	0.0462	5.00	35.4	35.7	5.09	4.25 to 5.75	94.0	70.0 to 130	0.844	20.0
BB18019	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	0.110	0.110	0.0962	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18019	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	0.930	20.0
BB18019	Potassium, Total	mg/L	0.0167	0.367	10.0	11.2	11.4	10.2	8.50 to 11.5	96.5	70.0 to 130	1.77	20.0
BB18019	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00395	0.00396	0.00393	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BB18019	Sodium, Total	mg/L	0.000384	0.0660	5.00	28.7	28.7	5.00	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB18019	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.0991	0.0993	0.0961	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BB18019	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.106	0.109	0.105	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB18019	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0921	0.0961	0.0926	0.0850 to 0.115	92.1	70.0 to 130	4.25	20.0
BB18019	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.171	0.172	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.583	20.0
BB18019	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.104	0.0977	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BB18019	Boron, Total	mg/L	0.000620	0.0650	1.00	2.70	2.70	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB18019	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.144	0.146	0.101	0.0850 to 0.115	103	70.0 to 130	1.38	20.0
BB18019	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.109	0.110	0.108	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BB18019	Calcium, Total	mg/L	0.000648	0.152	5.00	79.5	77.3	5.01	4.25 to 5.75	122	70.0 to 130	2.81	20.0
BB18019	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/27/21 14:45
Customer ID:
Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BB18012

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18017	Chloride	mg/L	0.0773	1.00	40.0	68.9	28.0	9.95	9.00 to 11.0	101	80.0 to 120	2.12	20.0
BB18019	Solids, Dissolved	mg/L	1.00	25.0			424	47.0	40.0 to 60.0			2.19	5.00
BB18017	Sulfate	mg/L	0.147	1.00	160	275	112	19.4	18.0 to 22.0	95.6	80.0 to 120	8.55	20.0
BB18017	Fluoride	mg/L	0.00586	0.100	2.50	2.89	0.0947	2.65	2.25 to 2.75	112	80.0 to 120	5.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 9/27/21 15:58
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18013

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 09:47		1.015	0.510	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 09:47		1.015	40.1	mg/L	0.070035	0.406	
* Iron, Total	10/4/21 10:00	10/7/21 09:47		1.015	0.0554	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 09:47		1.015	0.0610	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 09:47		1.015	18.9	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 09:47		1.015	18.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 12:45		1.015	0.0497	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 10:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 10:36		1.015	0.000484	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 10:36		1.015	0.0367	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 10:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 10:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 10:36		1.015	0.000379	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 10:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 10:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 10:36		1.015	0.221	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 10:36		1.015	3.02	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 10:36		1.015	0.00346	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 10:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 10:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 11:31		1.015	0.00343	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 17:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	96.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	249	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 9/27/21 15:58
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18013

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	95.7	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	1.08	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:04	9/30/21 13:04		1	13.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:01	10/1/21 10:01		1	0.187	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 11:07	10/6/21 11:07		5	104	mg/L	2.50	5	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/27/21 15:55	9/27/21 15:55			412.73	uS/cm			FA
pH	9/27/21 15:55	9/27/21 15:55			7.88	SU			FA
Temperature	9/27/21 15:55	9/27/21 15:55			23.24	C			FA
Turbidity	9/27/21 15:55	9/27/21 15:55			2.33	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 15:58

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BB18013

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18019	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00395	0.00396	0.00393	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BB18019	Sodium, Total	mg/L	0.000384	0.0660	5.00	28.7	28.7	5.00	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB18019	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.0991	0.0993	0.0961	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BB18019	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.171	0.172	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.583	20.0
BB18019	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.104	0.0977	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BB18019	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.106	0.109	0.105	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB18019	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0921	0.0961	0.0926	0.0850 to 0.115	92.1	70.0 to 130	4.25	20.0
BB18019	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	0.930	20.0
BB18019	Potassium, Total	mg/L	0.0167	0.367	10.0	11.2	11.4	10.2	8.50 to 11.5	96.5	70.0 to 130	1.77	20.0
BB18019	Boron, Total	mg/L	0.000620	0.0650	1.00	2.70	2.70	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB18019	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.144	0.146	0.101	0.0850 to 0.115	103	70.0 to 130	1.38	20.0
BB18019	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.109	0.110	0.108	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BB18019	Calcium, Total	mg/L	0.000648	0.152	5.00	79.5	77.3	5.01	4.25 to 5.75	122	70.0 to 130	2.81	20.0
BB18019	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB18019	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.215	0.217	0.195	0.170 to 0.230	108	70.0 to 130	0.926	20.0
BB18019	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0957	0.0980	0.0944	0.0850 to 0.115	95.7	70.0 to 130	2.37	20.0
BB18019	Magnesium, Total	mg/L	0.000371	0.0462	5.00	35.4	35.7	5.09	4.25 to 5.75	94.0	70.0 to 130	0.844	20.0
BB18019	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	0.110	0.110	0.0962	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18019	Iron, Total	mg/L	0.000314	0.0176	0.2	0.248	0.253	0.204	0.170 to 0.230	96.0	70.0 to 130	2.00	20.0
BB18020	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.209	0.199	0.204	0.170 to 0.230	104	70.0 to 130	4.90	20.0
BB18020	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.123	0.126	0.107	0.0850 to 0.115	98.8	70.0 to 130	2.41	20.0
BB18019	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.103	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	2.87	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 15:58

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BB18013

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18017	Chloride	mg/L	0.0773	1.00	40.0	68.9	28.0	9.95	9.00 to 11.0	101	80.0 to 120	2.12	20.0
BB18019	Solids, Dissolved	mg/L	1.00	25.0			424	47.0	40.0 to 60.0			2.19	5.00
BB18017	Sulfate	mg/L	0.147	1.00	160	275	112	19.4	18.0 to 22.0	95.6	80.0 to 120	8.55	20.0
BB18017	Fluoride	mg/L	0.00586	0.100	2.50	2.89	0.0947	2.65	2.25 to 2.75	112	80.0 to 120	5.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-2

Location Code: WMWGASAPFB
Collected: 9/27/21 16:35
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18014

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 09:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/4/21 10:00	10/7/21 09:50		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/4/21 10:00	10/7/21 09:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/4/21 10:00	10/7/21 09:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 09:50		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	10/4/21 10:00	10/7/21 09:50		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 10:40		1.015	0.000310	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 17:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	9/30/21 13:05	9/30/21 13:05		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:02	10/1/21 10:02		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:57	10/6/21 10:57		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 9/27/21 16:35

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BB18014

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB18019	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	0.930	20.0
BB18019	Potassium, Total	mg/L	0.0167	0.367	10.0	11.2	11.4	10.2	8.50 to 11.5	96.5	70.0 to 130	1.77	20.0
BB18019	Iron, Total	mg/L	0.000314	0.0176	0.2	0.248	0.253	0.204	0.170 to 0.230	96.0	70.0 to 130	2.00	20.0
BB18019	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.103	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BB18019	Boron, Total	mg/L	0.000620	0.0650	1.00	2.70	2.70	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB18019	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.144	0.146	0.101	0.0850 to 0.115	103	70.0 to 130	1.38	20.0
BB18019	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.109	0.110	0.108	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BB18019	Calcium, Total	mg/L	0.000648	0.152	5.00	79.5	77.3	5.01	4.25 to 5.75	122	70.0 to 130	2.81	20.0
BB18019	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB18019	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.171	0.172	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.583	20.0
BB18019	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.104	0.0977	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BB18019	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.106	0.109	0.105	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB18019	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0921	0.0961	0.0926	0.0850 to 0.115	92.1	70.0 to 130	4.25	20.0
BB18019	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00395	0.00396	0.00393	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BB18019	Sodium, Total	mg/L	0.000384	0.0660	5.00	28.7	28.7	5.00	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB18019	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.0991	0.0993	0.0961	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BB18019	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.215	0.217	0.195	0.170 to 0.230	108	70.0 to 130	0.926	20.0
BB18019	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0957	0.0980	0.0944	0.0850 to 0.115	95.7	70.0 to 130	2.37	20.0
BB18019	Magnesium, Total	mg/L	0.000371	0.0462	5.00	35.4	35.7	5.09	4.25 to 5.75	94.0	70.0 to 130	0.844	20.0
BB18019	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	0.110	0.110	0.0962	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 9/27/21 16:35

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BB18014

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18017	Chloride	mg/L	0.0773	1.00	40.0	68.9	28.0	9.95	9.00 to 11.0	101	80.0 to 120	2.12	20.0
BB18019	Solids, Dissolved	mg/L	1.00	25.0			424	47.0	40.0 to 60.0			2.19	5.00
BB18017	Sulfate	mg/L	0.147	1.00	160	275	112	19.4	18.0 to 22.0	95.6	80.0 to 120	8.55	20.0
BB18017	Fluoride	mg/L	0.00586	0.100	2.50	2.89	0.0947	2.65	2.25 to 2.75	112	80.0 to 120	5.44	20.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP
Collected: 9/27/21 12:06
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18015

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 09:54		1.015	0.721	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 12:51		10.15	53.1	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 09:54		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/4/21 10:00	10/7/21 09:54		1.015	0.00862	mg/L	0.007105	0.01999956	J
* Magnesium, Total	10/4/21 10:00	10/7/21 09:54		1.015	21.1	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 09:54		1.015	9.04	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 12:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 10:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 10:43		1.015	0.000161	mg/L	0.000068	0.000203	J
* Barium, Total	10/4/21 15:05	10/5/21 10:43		1.015	0.0266	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 10:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 10:43		1.015	0.000361	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 10:43		1.015	0.0000985	mg/L	0.000068	0.000203	J
* Molybdenum, Total	10/4/21 15:05	10/5/21 10:43		1.015	0.0541	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 10:43		1.015	2.55	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 10:43		1.015	0.000590	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 10:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 11:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 18:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	180	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	240	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP
Collected: 9/27/21 12:06
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18015

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	179	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.79	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:07	9/30/21 13:07		1	14.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:04	10/1/21 10:04		1	0.0989	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 10:59	10/6/21 10:59		1	33.5	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/27/21 12:04	9/27/21 12:04			429.98	uS/cm			FA
pH	9/27/21 12:04	9/27/21 12:04			7.55	SU			FA
Temperature	9/27/21 12:04	9/27/21 12:04			21.35	C			FA
Turbidity	9/27/21 12:04	9/27/21 12:04			3.59	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/27/21 12:06
Customer ID:
Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BB18015

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18019	Iron, Total	mg/L	0.000314	0.0176	0.2	0.248	0.253	0.204	0.170 to 0.230	96.0	70.0 to 130	2.00	20.0
BB18020	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.209	0.199	0.204	0.170 to 0.230	104	70.0 to 130	4.90	20.0
BB18020	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.123	0.126	0.107	0.0850 to 0.115	98.8	70.0 to 130	2.41	20.0
BB18019	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.103	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BB18019	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	0.930	20.0
BB18019	Potassium, Total	mg/L	0.0167	0.367	10.0	11.2	11.4	10.2	8.50 to 11.5	96.5	70.0 to 130	1.77	20.0
BB18019	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.106	0.109	0.105	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB18019	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0921	0.0961	0.0926	0.0850 to 0.115	92.1	70.0 to 130	4.25	20.0
BB18019	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00395	0.00396	0.00393	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BB18019	Sodium, Total	mg/L	0.000384	0.0660	5.00	28.7	28.7	5.00	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB18019	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.0991	0.0993	0.0961	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BB18019	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.171	0.172	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.583	20.0
BB18019	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.104	0.0977	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BB18019	Boron, Total	mg/L	0.000620	0.0650	1.00	2.70	2.70	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB18019	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.144	0.146	0.101	0.0850 to 0.115	103	70.0 to 130	1.38	20.0
BB18019	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.109	0.110	0.108	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BB18019	Calcium, Total	mg/L	0.000648	0.152	5.00	79.5	77.3	5.01	4.25 to 5.75	122	70.0 to 130	2.81	20.0
BB18019	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB18019	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.215	0.217	0.195	0.170 to 0.230	108	70.0 to 130	0.926	20.0
BB18019	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0957	0.0980	0.0944	0.0850 to 0.115	95.7	70.0 to 130	2.37	20.0
BB18019	Magnesium, Total	mg/L	0.000371	0.0462	5.00	35.4	35.7	5.09	4.25 to 5.75	94.0	70.0 to 130	0.844	20.0
BB18019	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	0.110	0.110	0.0962	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 12:06

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BB18015

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18017	Fluoride	mg/L	0.00586	0.100	2.50	2.89	0.0947	2.65	2.25 to 2.75	112	80.0 to 120	5.44	20.0
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18017	Chloride	mg/L	0.0773	1.00	40.0	68.9	28.0	9.95	9.00 to 11.0	101	80.0 to 120	2.12	20.0
BB18019	Solids, Dissolved	mg/L	1.00	25.0			424	47.0	40.0 to 60.0			2.19	5.00
BB18017	Sulfate	mg/L	0.147	1.00	160	275	112	19.4	18.0 to 22.0	95.6	80.0 to 120	8.55	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5 DUP

Location Code: WMWGASAP
Collected: 9/27/21 12:06
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18016

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 09:57		1.015	0.725	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 12:55		10.15	50.6	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 09:57		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/4/21 10:00	10/7/21 09:57		1.015	0.00860	mg/L	0.007105	0.01999956	J
* Magnesium, Total	10/4/21 10:00	10/7/21 09:57		1.015	21.4	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 09:57		1.015	9.06	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 12:52		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 10:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 10:47		1.015	0.000159	mg/L	0.000068	0.000203	J
* Barium, Total	10/4/21 15:05	10/5/21 10:47		1.015	0.0262	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 10:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 10:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 10:47		1.015	0.000418	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 10:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 10:47		1.015	0.0000938	mg/L	0.000068	0.000203	J
* Molybdenum, Total	10/4/21 15:05	10/5/21 10:47		1.015	0.0541	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 10:47		1.015	2.49	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 10:47		1.015	0.000548	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 10:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 10:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 11:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 18:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	168	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	229	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5 DUP

Location Code: WMWGASAP
Collected: 9/27/21 12:06
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18016

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	167	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.67	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:08	9/30/21 13:08		1	14.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:05	10/1/21 10:05		1	0.100	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 11:00	10/6/21 11:00		1	33.5	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/27/21 12:04	9/27/21 12:04			429.98	uS/cm			FA
pH	9/27/21 12:04	9/27/21 12:04			7.55	SU			FA
Temperature	9/27/21 12:04	9/27/21 12:04			21.35	C			FA
Turbidity	9/27/21 12:04	9/27/21 12:04			3.59	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 12:06

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-5 DUP

Laboratory ID Number: BB18016

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB18019	Iron, Total	mg/L	0.000314	0.0176	0.2	0.248	0.253	0.204	0.170 to 0.230	96.0	70.0 to 130	2.00	20.0
BB18020	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.209	0.199	0.204	0.170 to 0.230	104	70.0 to 130	4.90	20.0
BB18020	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.123	0.126	0.107	0.0850 to 0.115	98.8	70.0 to 130	2.41	20.0
BB18019	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.103	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BB18019	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.106	0.109	0.105	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB18019	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0921	0.0961	0.0926	0.0850 to 0.115	92.1	70.0 to 130	4.25	20.0
BB18019	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.215	0.217	0.195	0.170 to 0.230	108	70.0 to 130	0.926	20.0
BB18019	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0957	0.0980	0.0944	0.0850 to 0.115	95.7	70.0 to 130	2.37	20.0
BB18019	Magnesium, Total	mg/L	0.000371	0.0462	5.00	35.4	35.7	5.09	4.25 to 5.75	94.0	70.0 to 130	0.844	20.0
BB18019	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	0.110	0.110	0.0962	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18019	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.171	0.172	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.583	20.0
BB18019	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.104	0.0977	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BB18019	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00395	0.00396	0.00393	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BB18019	Sodium, Total	mg/L	0.000384	0.0660	5.00	28.7	28.7	5.00	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB18019	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.0991	0.0993	0.0961	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BB18019	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	0.930	20.0
BB18019	Potassium, Total	mg/L	0.0167	0.367	10.0	11.2	11.4	10.2	8.50 to 11.5	96.5	70.0 to 130	1.77	20.0
BB18019	Boron, Total	mg/L	0.000620	0.0650	1.00	2.70	2.70	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB18019	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.144	0.146	0.101	0.0850 to 0.115	103	70.0 to 130	1.38	20.0
BB18019	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.109	0.110	0.108	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BB18019	Calcium, Total	mg/L	0.000648	0.152	5.00	79.5	77.3	5.01	4.25 to 5.75	122	70.0 to 130	2.81	20.0
BB18019	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 12:06

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-5 DUP

Laboratory ID Number: BB18016

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18017	Fluoride	mg/L	0.00586	0.100	2.50	2.89	0.0947	2.65	2.25 to 2.75	112	80.0 to 120	5.44	20.0
BB18017	Sulfate	mg/L	0.147	1.00	160	275	112	19.4	18.0 to 22.0	95.6	80.0 to 120	8.55	20.0
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18017	Chloride	mg/L	0.0773	1.00	40.0	68.9	28.0	9.95	9.00 to 11.0	101	80.0 to 120	2.12	20.0
BB18019	Solids, Dissolved	mg/L	1.00	25.0			424	47.0	40.0 to 60.0			2.19	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP
Collected: 9/27/21 13:13
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18017

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:00		1.015	1.43	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 12:58		10.15	77.7	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 10:00		1.015	0.0150	mg/L	0.008120	0.0406	J
* Lithium, Total	10/4/21 10:00	10/7/21 10:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 10:00		1.015	27.1	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 10:00		1.015	16.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	10/4/21 10:00	10/6/21 12:56		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 10:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 10:51		1.015	0.000175	mg/L	0.000068	0.000203	J
* Barium, Total	10/4/21 15:05	10/5/21 10:51		1.015	0.0360	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 10:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 10:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 10:51		1.015	0.000309	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 10:51		1.015	0.000308	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 10:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 10:51		1.015	0.0388	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 10:51		1.015	2.68	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 10:51		1.015	0.310	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 10:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 10:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	10/4/21 10:17	10/4/21 11:42		1.015	0.147	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 18:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	162	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638				
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	402	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP
Collected: 9/27/21 13:13
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18017

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	162	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.36	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:22	9/30/21 13:22		4	28.6	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:06	10/1/21 10:06		1	0.100	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 11:16	10/6/21 11:16		8	122	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/27/21 13:10	9/27/21 13:10			616.84	uS/cm			FA
pH	9/27/21 13:10	9/27/21 13:10			7.23	SU			FA
Temperature	9/27/21 13:10	9/27/21 13:10			20.63	C			FA
Turbidity	9/27/21 13:10	9/27/21 13:10			1.18	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 13:13

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BB18017

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18019	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	0.930	20.0
BB18019	Potassium, Total	mg/L	0.0167	0.367	10.0	11.2	11.4	10.2	8.50 to 11.5	96.5	70.0 to 130	1.77	20.0
BB18019	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00395	0.00396	0.00393	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BB18019	Sodium, Total	mg/L	0.000384	0.0660	5.00	28.7	28.7	5.00	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB18019	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.0991	0.0993	0.0961	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BB18019	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.171	0.172	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.583	20.0
BB18019	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.104	0.0977	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BB18019	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.106	0.109	0.105	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB18019	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0921	0.0961	0.0926	0.0850 to 0.115	92.1	70.0 to 130	4.25	20.0
BB18019	Boron, Total	mg/L	0.000620	0.0650	1.00	2.70	2.70	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB18019	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.144	0.146	0.101	0.0850 to 0.115	103	70.0 to 130	1.38	20.0
BB18019	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.109	0.110	0.108	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BB18019	Calcium, Total	mg/L	0.000648	0.152	5.00	79.5	77.3	5.01	4.25 to 5.75	122	70.0 to 130	2.81	20.0
BB18019	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB18019	Iron, Total	mg/L	0.000314	0.0176	0.2	0.248	0.253	0.204	0.170 to 0.230	96.0	70.0 to 130	2.00	20.0
BB18020	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.209	0.199	0.204	0.170 to 0.230	104	70.0 to 130	4.90	20.0
BB18020	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.123	0.126	0.107	0.0850 to 0.115	98.8	70.0 to 130	2.41	20.0
BB18019	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.103	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BB18019	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.215	0.217	0.195	0.170 to 0.230	108	70.0 to 130	0.926	20.0
BB18019	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0957	0.0980	0.0944	0.0850 to 0.115	95.7	70.0 to 130	2.37	20.0
BB18019	Magnesium, Total	mg/L	0.000371	0.0462	5.00	35.4	35.7	5.09	4.25 to 5.75	94.0	70.0 to 130	0.844	20.0
BB18019	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	0.110	0.110	0.0962	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/27/21 13:13
Customer ID:
Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BB18017

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18017	Sulfate	mg/L	0.147	1.00	160	275	112	19.4	18.0 to 22.0	95.6	80.0 to 120	8.55	20.0
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18017	Chloride	mg/L	0.0773	1.00	40.0	68.9	28.0	9.95	9.00 to 11.0	101	80.0 to 120	2.12	20.0
BB18019	Solids, Dissolved	mg/L	1.00	25.0			424	47.0	40.0 to 60.0			2.19	5.00
BB18017	Fluoride	mg/L	0.00586	0.100	2.50	2.89	0.0947	2.65	2.25 to 2.75	112	80.0 to 120	5.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22 DUP

Location Code: WMWGASAP

Collected: 9/27/21 13:13

Customer ID:

Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18018

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:04		1.015	1.44	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 13:02		10.15	78.9	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 10:04		1.015	0.0130	mg/L	0.008120	0.0406	J
* Lithium, Total	10/4/21 10:00	10/7/21 10:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 10:04		1.015	27.1	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 10:04		1.015	16.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 12:59		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 10:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 10:54		1.015	0.000157	mg/L	0.000068	0.000203	J
* Barium, Total	10/4/21 15:05	10/5/21 10:54		1.015	0.0351	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 10:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 10:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 10:54		1.015	0.000337	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 10:54		1.015	0.000280	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 10:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 10:54		1.015	0.0383	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 10:54		1.015	2.67	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 10:54		1.015	0.295	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 10:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 10:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 11:45		1.015	0.149	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 18:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	163	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	385	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22 DUP

Location Code: WMWGASAP
Collected: 9/27/21 13:13
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18018

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	163	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.32	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:49	9/30/21 13:49		3	28.4	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:21	10/1/21 10:21		1	0.0934	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 12:27	10/6/21 12:27		8	114	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/27/21 13:10	9/27/21 13:10			616.84	uS/cm			FA
pH	9/27/21 13:10	9/27/21 13:10			7.23	SU			FA
Temperature	9/27/21 13:10	9/27/21 13:10			20.63	C			FA
Turbidity	9/27/21 13:10	9/27/21 13:10			1.18	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 13:13

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-22 DUP

Laboratory ID Number: BB18018

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB18019	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.106	0.109	0.105	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB18019	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0921	0.0961	0.0926	0.0850 to 0.115	92.1	70.0 to 130	4.25	20.0
BB18019	Iron, Total	mg/L	0.000314	0.0176	0.2	0.248	0.253	0.204	0.170 to 0.230	96.0	70.0 to 130	2.00	20.0
BB18020	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.209	0.199	0.204	0.170 to 0.230	104	70.0 to 130	4.90	20.0
BB18020	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.123	0.126	0.107	0.0850 to 0.115	98.8	70.0 to 130	2.41	20.0
BB18019	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.103	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BB18019	Boron, Total	mg/L	0.000620	0.0650	1.00	2.70	2.70	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB18019	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.144	0.146	0.101	0.0850 to 0.115	103	70.0 to 130	1.38	20.0
BB18019	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.109	0.110	0.108	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BB18019	Calcium, Total	mg/L	0.000648	0.152	5.00	79.5	77.3	5.01	4.25 to 5.75	122	70.0 to 130	2.81	20.0
BB18019	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB18019	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.215	0.217	0.195	0.170 to 0.230	108	70.0 to 130	0.926	20.0
BB18019	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0957	0.0980	0.0944	0.0850 to 0.115	95.7	70.0 to 130	2.37	20.0
BB18019	Magnesium, Total	mg/L	0.000371	0.0462	5.00	35.4	35.7	5.09	4.25 to 5.75	94.0	70.0 to 130	0.844	20.0
BB18019	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	0.110	0.110	0.0962	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18019	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	0.930	20.0
BB18019	Potassium, Total	mg/L	0.0167	0.367	10.0	11.2	11.4	10.2	8.50 to 11.5	96.5	70.0 to 130	1.77	20.0
BB18019	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.171	0.172	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.583	20.0
BB18019	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.104	0.0977	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BB18019	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00395	0.00396	0.00393	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BB18019	Sodium, Total	mg/L	0.000384	0.0660	5.00	28.7	28.7	5.00	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB18019	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.0991	0.0993	0.0961	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 13:13

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-22 DUP

Laboratory ID Number: BB18018

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18283	Fluoride	mg/L	0.00717	0.100	2.50	2.90	0.0919	2.61	2.25 to 2.75	113	80.0 to 120	9.10	20.0
BB18283	Sulfate	mg/L	-0.186	1.00	400	655	200	19.0	18.0 to 22.0	112	80.0 to 120	2.47	20.0
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18019	Solids, Dissolved	mg/L	1.00	25.0			424	47.0	40.0 to 60.0			2.19	5.00
BB18283	Chloride	mg/L	0.0316	1.00	10.0	22.9	13.2	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP

Collected: 9/27/21 14:31

Customer ID:

Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18019

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:07		1.015	1.67	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 13:05		10.15	73.4	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 10:07		1.015	0.0559	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 10:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 10:07		1.015	30.7	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 10:07		1.015	22.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:02		1.015	0.0408	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 10:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 10:58		1.015	0.00103	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 10:58		1.015	0.0408	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 10:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 10:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 10:58		1.015	0.000367	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 10:58		1.015	0.000238	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 10:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 10:58		1.015	0.00769	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 10:58		1.015	1.55	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 10:58		1.015	0.0723	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 10:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 10:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 11:49		1.015	0.0792	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 18:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	113	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	443	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP
Collected: 9/27/21 14:31
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18019

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	112	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.55	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:50	9/30/21 13:50		3	40.1	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:19	10/1/21 10:19		1	0.0914	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 12:28	10/6/21 12:28		10	162	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/27/21 14:28	9/27/21 14:28			650.67	uS/cm			FA
pH	9/27/21 14:28	9/27/21 14:28			7.64	SU			FA
Temperature	9/27/21 14:28	9/27/21 14:28			19.55	C			FA
Turbidity	9/27/21 14:28	9/27/21 14:28			2.25	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 14:31

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BB18019

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB18019	Boron, Total	mg/L	0.000620	0.0650	1.00	2.70	2.70	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB18019	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.144	0.146	0.101	0.0850 to 0.115	103	70.0 to 130	1.38	20.0
BB18019	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.109	0.110	0.108	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BB18019	Calcium, Total	mg/L	0.000648	0.152	5.00	79.5	77.3	5.01	4.25 to 5.75	122	70.0 to 130	2.81	20.0
BB18019	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB18019	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	0.930	20.0
BB18019	Potassium, Total	mg/L	0.0167	0.367	10.0	11.2	11.4	10.2	8.50 to 11.5	96.5	70.0 to 130	1.77	20.0
BB18019	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.171	0.172	0.101	0.0850 to 0.115	98.7	70.0 to 130	0.583	20.0
BB18019	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.104	0.0977	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BB18019	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00395	0.00396	0.00393	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BB18019	Sodium, Total	mg/L	0.000384	0.0660	5.00	28.7	28.7	5.00	4.25 to 5.75	118	70.0 to 130	0.00	20.0
BB18019	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.0991	0.0993	0.0961	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BB18019	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.106	0.109	0.105	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB18019	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0921	0.0961	0.0926	0.0850 to 0.115	92.1	70.0 to 130	4.25	20.0
BB18019	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.215	0.217	0.195	0.170 to 0.230	108	70.0 to 130	0.926	20.0
BB18019	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0957	0.0980	0.0944	0.0850 to 0.115	95.7	70.0 to 130	2.37	20.0
BB18019	Magnesium, Total	mg/L	0.000371	0.0462	5.00	35.4	35.7	5.09	4.25 to 5.75	94.0	70.0 to 130	0.844	20.0
BB18019	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	0.110	0.110	0.0962	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18019	Iron, Total	mg/L	0.000314	0.0176	0.2	0.248	0.253	0.204	0.170 to 0.230	96.0	70.0 to 130	2.00	20.0
BB18020	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.209	0.199	0.204	0.170 to 0.230	104	70.0 to 130	4.90	20.0
BB18020	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.123	0.126	0.107	0.0850 to 0.115	98.8	70.0 to 130	2.41	20.0
BB18019	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.103	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	2.87	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 14:31

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BB18019

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18283	Sulfate	mg/L	-0.186	1.00	400	655	200	19.0	18.0 to 22.0	112	80.0 to 120	2.47	20.0
BB18283	Fluoride	mg/L	0.00717	0.100	2.50	2.90	0.0919	2.61	2.25 to 2.75	113	80.0 to 120	9.10	20.0
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18019	Solids, Dissolved	mg/L	1.00	25.0			424	47.0	40.0 to 60.0			2.19	5.00
BB18283	Chloride	mg/L	0.0316	1.00	10.0	22.9	13.2	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 9/27/21 15:15
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18020

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:24		1.015	2.03	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 13:22		10.15	69.2	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 10:24		1.015	0.0168	mg/L	0.008120	0.0406	J
* Lithium, Total	10/4/21 10:00	10/7/21 10:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 10:24		1.015	30.1	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 10:24		1.015	24.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:06		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 11:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 11:19		1.015	0.000138	mg/L	0.000068	0.000203	J
* Barium, Total	10/4/21 15:05	10/5/21 11:19		1.015	0.0223	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 11:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 11:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 11:19		1.015	0.000345	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 11:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 11:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 11:19		1.015	0.0118	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 11:19		1.015	1.76	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 11:19		1.015	0.0275	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 11:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 11:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 11:52		1.015	0.0242	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 18:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	119	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	415	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 9/27/21 15:15
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18020

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	118	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.82	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:51	9/30/21 13:51		3	45.3	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:20	10/1/21 10:20		1	0.0862	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 12:30	10/6/21 12:30		8	156	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/27/21 15:12	9/27/21 15:12			645.12	uS/cm			FA
pH	9/27/21 15:12	9/27/21 15:12			7.92	SU			FA
Temperature	9/27/21 15:12	9/27/21 15:12			19.96	C			FA
Turbidity	9/27/21 15:12	9/27/21 15:12			1.3	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 15:15

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BB18020

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18285	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0
BB18285	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.189	0.185	0.101	0.0850 to 0.115	106	70.0 to 130	2.14	20.0
BB18285	Calcium, Total	mg/L	0.000648	0.152	5.00	107	107	5.01	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BB18020	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.209	0.199	0.204	0.170 to 0.230	104	70.0 to 130	4.90	20.0
BB18020	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.123	0.126	0.107	0.0850 to 0.115	98.8	70.0 to 130	2.41	20.0
BB18285	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0949	0.0973	0.0944	0.0850 to 0.115	94.8	70.0 to 130	2.50	20.0
BB18285	Potassium, Total	mg/L	0.0167	0.367	10.0	27.3	27.1	10.2	8.50 to 11.5	95.0	70.0 to 130	0.735	20.0
BB18285	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.101	0.0977	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18285	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.108	0.106	0.108	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BB18285	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.421	0.425	0.195	0.170 to 0.230	112	70.0 to 130	0.946	20.0
BB18285	Sodium, Total	mg/L	0.000384	0.0660	5.00	39.7	39.9	5.00	4.25 to 5.75	104	70.0 to 130	0.503	20.0
BB18285	Iron, Total	mg/L	0.000314	0.0176	0.2	0.714	0.722	0.204	0.170 to 0.230	96.5	70.0 to 130	1.11	20.0
BB18285	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.753	0.737	0.101	0.0850 to 0.115	97.0	70.0 to 130	2.15	20.0
BB18285	Magnesium, Total	mg/L	0.000371	0.0462	5.00	24.2	24.5	5.09	4.25 to 5.75	94.0	70.0 to 130	1.23	20.0
BB18285	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.105	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB18285	Boron, Total	mg/L	0.000620	0.0650	1.00	3.49	3.52	1.01	0.850 to 1.15	96.0	70.0 to 130	0.856	20.0
BB18285	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0951	0.0933	0.0926	0.0850 to 0.115	95.1	70.0 to 130	1.91	20.0
BB18285	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.101	0.0991	0.0961	0.0850 to 0.115	98.9	70.0 to 130	1.90	20.0
BB18022	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00396	0.00393	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.760	20.0
BB18285	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB18285	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18285	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	1.18	1.19	0.0962	0.0850 to 0.115	70.0	70.0 to 130	0.844	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/27/21 15:15
Customer ID:
Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BB18020

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18283	Sulfate	mg/L	-0.186	1.00	400	655	200	19.0	18.0 to 22.0	112	80.0 to 120	2.47	20.0
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18283	Chloride	mg/L	0.0316	1.00	10.0	22.9	13.2	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BB18283	Fluoride	mg/L	0.00717	0.100	2.50	2.90	0.0919	2.61	2.25 to 2.75	113	80.0 to 120	9.10	20.0
BB18021	Solids, Dissolved	mg/L	1.00	25.0			380	47.0	40.0 to 60.0			0.132	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 9/27/21 16:00
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18021

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:27		1.015	1.52	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 13:25		10.15	76.2	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 10:27		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/4/21 10:00	10/7/21 10:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 10:27		1.015	24.2	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 10:27		1.015	11.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:23		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 11:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 11:23		1.015	0.000189	mg/L	0.000068	0.000203	J
* Barium, Total	10/4/21 15:05	10/5/21 11:23		1.015	0.0218	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 11:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 11:23		1.015	0.000373	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 11:23		1.015	0.000261	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 11:23		1.015	3.26	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 11:23		1.015	0.00277	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 11:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	10/4/21 10:17	10/4/21 12:14		1.015	0.00137	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 18:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	121	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ			Preparation Method: EPA 1638				
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	379	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 9/27/21 16:00
Customer ID:
Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18021

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	120	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.57	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:38	9/30/21 13:38		1	16.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:22	10/1/21 10:22		1	0.0882	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 12:31	10/6/21 12:31		5	143	mg/L	2.50	5	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/27/21 15:56	9/27/21 15:56			571.39	uS/cm			FA
pH	9/27/21 15:56	9/27/21 15:56			7.74	SU			FA
Temperature	9/27/21 15:56	9/27/21 15:56			19.47	C			FA
Turbidity	9/27/21 15:56	9/27/21 15:56			1.4	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/27/21 16:00

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BB18021

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18285	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0
BB18285	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.189	0.185	0.101	0.0850 to 0.115	106	70.0 to 130	2.14	20.0
BB18285	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.421	0.425	0.195	0.170 to 0.230	112	70.0 to 130	0.946	20.0
BB18285	Calcium, Total	mg/L	0.000648	0.152	5.00	107	107	5.01	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BB18285	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.0949	0.0973	0.0944	0.0850 to 0.115	94.8	70.0 to 130	2.50	20.0
BB18285	Potassium, Total	mg/L	0.0167	0.367	10.0	27.3	27.1	10.2	8.50 to 11.5	95.0	70.0 to 130	0.735	20.0
BB18285	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.101	0.0977	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18285	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.108	0.106	0.108	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BB18285	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB18285	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18285	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	1.18	1.19	0.0962	0.0850 to 0.115	70.0	70.0 to 130	0.844	20.0
BB18287	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.167	0.165	0.107	0.0850 to 0.115	102	70.0 to 130	1.20	20.0
BB18285	Sodium, Total	mg/L	0.000384	0.0660	5.00	39.7	39.9	5.00	4.25 to 5.75	104	70.0 to 130	0.503	20.0
BB18285	Iron, Total	mg/L	0.000314	0.0176	0.2	0.714	0.722	0.204	0.170 to 0.230	96.5	70.0 to 130	1.11	20.0
BB18290	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.303	0.301	0.204	0.170 to 0.230	99.5	70.0 to 130	0.662	20.0
BB18285	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.753	0.737	0.101	0.0850 to 0.115	97.0	70.0 to 130	2.15	20.0
BB18285	Magnesium, Total	mg/L	0.000371	0.0462	5.00	24.2	24.5	5.09	4.25 to 5.75	94.0	70.0 to 130	1.23	20.0
BB18285	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.105	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB18285	Boron, Total	mg/L	0.000620	0.0650	1.00	3.49	3.52	1.01	0.850 to 1.15	96.0	70.0 to 130	0.856	20.0
BB18285	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0951	0.0933	0.0926	0.0850 to 0.115	95.1	70.0 to 130	1.91	20.0
BB18285	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.101	0.0991	0.0961	0.0850 to 0.115	98.9	70.0 to 130	1.90	20.0
BB18022	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00396	0.00393	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.760	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/27/21 16:00
Customer ID:
Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BB18021

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18283	Chloride	mg/L	0.0316	1.00	10.0	22.9	13.2	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BB18283	Sulfate	mg/L	-0.186	1.00	400	655	200	19.0	18.0 to 22.0	112	80.0 to 120	2.47	20.0
BB18283	Fluoride	mg/L	0.00717	0.100	2.50	2.90	0.0919	2.61	2.25 to 2.75	113	80.0 to 120	9.10	20.0
BB18021	Solids, Dissolved	mg/L	1.00	25.0			380	47.0	40.0 to 60.0			0.132	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-4

Location Code: WMWGASAPFB

Collected: 9/27/21 16:05

Customer ID:

Submittal Date: 9/28/21 09:53

Laboratory ID Number: BB18022

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/4/21 10:00	10/7/21 10:31		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/4/21 10:00	10/7/21 10:31		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/4/21 10:00	10/7/21 10:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 10:31		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	10/4/21 10:00	10/7/21 10:31		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 11:26		1.015	0.000303	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 19:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/29/21 11:45	9/30/21 12:58		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	9/30/21 13:47	9/30/21 13:47		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:24	10/1/21 10:24		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 12:32	10/6/21 12:32		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 9/27/21 16:05

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BB18022

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB18285	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB18285	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18285	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	1.18	1.19	0.0962	0.0850 to 0.115	70.0	70.0 to 130	0.844	20.0
BB18285	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.101	0.0977	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18285	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.108	0.106	0.108	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BB18285	Calcium, Total	mg/L	0.000648	0.152	5.00	107	107	5.01	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BB18285	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0949	0.0973	0.0944	0.0850 to 0.115	94.8	70.0 to 130	2.50	20.0
BB18285	Potassium, Total	mg/L	0.0167	0.367	10.0	27.3	27.1	10.2	8.50 to 11.5	95.0	70.0 to 130	0.735	20.0
BB18285	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0
BB18285	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.189	0.185	0.101	0.0850 to 0.115	106	70.0 to 130	2.14	20.0
BB18285	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.421	0.425	0.195	0.170 to 0.230	112	70.0 to 130	0.946	20.0
BB18285	Sodium, Total	mg/L	0.000384	0.0660	5.00	39.7	39.9	5.00	4.25 to 5.75	104	70.0 to 130	0.503	20.0
BB18285	Iron, Total	mg/L	0.000314	0.0176	0.2	0.714	0.722	0.204	0.170 to 0.230	96.5	70.0 to 130	1.11	20.0
BB18285	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.753	0.737	0.101	0.0850 to 0.115	97.0	70.0 to 130	2.15	20.0
BB18285	Magnesium, Total	mg/L	0.000371	0.0462	5.00	24.2	24.5	5.09	4.25 to 5.75	94.0	70.0 to 130	1.23	20.0
BB18285	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.105	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB18285	Boron, Total	mg/L	0.000620	0.0650	1.00	3.49	3.52	1.01	0.850 to 1.15	96.0	70.0 to 130	0.856	20.0
BB18285	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0951	0.0933	0.0926	0.0850 to 0.115	95.1	70.0 to 130	1.91	20.0
BB18285	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.101	0.0991	0.0961	0.0850 to 0.115	98.9	70.0 to 130	1.90	20.0
BB18022	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00396	0.00393	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.760	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 9/27/21 16:05

Customer ID:

Delivery Date: 9/28/21 09:53

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BB18022

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18283	Chloride	mg/L	0.0316	1.00	10.0	22.9	13.2	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BB18283	Sulfate	mg/L	-0.186	1.00	400	655	200	19.0	18.0 to 22.0	112	80.0 to 120	2.47	20.0
BB18283	Fluoride	mg/L	0.00717	0.100	2.50	2.90	0.0919	2.61	2.25 to 2.75	113	80.0 to 120	9.10	20.0
BB18021	Solids, Dissolved	mg/L	1.00	25.0			380	47.0	40.0 to 60.0			0.132	5.00

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-3

Location Code: WMWGASAPFB
Collected: 9/28/21 10:35
Customer ID:
Submittal Date: 9/30/21 09:54

Laboratory ID Number: BB18279

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	10/4/21 10:00	10/7/21 10:34		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/4/21 10:00	10/7/21 10:34		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	10/4/21 10:00	10/7/21 10:34		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/4/21 10:00	10/7/21 10:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/4/21 10:00	10/7/21 10:34		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Sodium, Total	10/4/21 10:00	10/7/21 10:34		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/4/21 15:05	10/5/21 11:30		1.015	0.000293	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/4/21 15:05	10/5/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 18:51		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	Not Detected	mg/L		25	U	
Analytical Method: SM4500CI E		Analyst: JCC								
* Chloride	9/30/21 13:48	9/30/21 13:48		1	Not Detected	mg/L	0.50	1	U	
Analytical Method: SM4500F G 2017		Analyst: JCC								
* Fluoride	10/1/21 10:25	10/1/21 10:25		1	Not Detected	mg/L	0.06	0.1	U	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC								
* Sulfate	10/6/21 12:33	10/6/21 12:33		1	Not Detected	mg/L	0.50	1	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB
Sample Date: 9/28/21 10:35
Customer ID:
Delivery Date: 9/30/21 09:54

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BB18279

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB18285	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.421	0.425	0.195	0.170 to 0.230	112	70.0 to 130	0.946	20.0
BB18285	Boron, Total	mg/L	0.000620	0.0650	1.00	3.49	3.52	1.01	0.850 to 1.15	96.0	70.0 to 130	0.856	20.0
BB18285	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0951	0.0933	0.0926	0.0850 to 0.115	95.1	70.0 to 130	1.91	20.0
BB18285	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.101	0.0991	0.0961	0.0850 to 0.115	98.9	70.0 to 130	1.90	20.0
BB18022	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00396	0.00393	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.760	20.0
BB18285	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB18285	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18285	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	1.18	1.19	0.0962	0.0850 to 0.115	70.0	70.0 to 130	0.844	20.0
BB18285	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0
BB18285	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.189	0.185	0.101	0.0850 to 0.115	106	70.0 to 130	2.14	20.0
BB18285	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.101	0.0977	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18285	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.108	0.106	0.108	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BB18285	Sodium, Total	mg/L	0.000384	0.0660	5.00	39.7	39.9	5.00	4.25 to 5.75	104	70.0 to 130	0.503	20.0
BB18285	Iron, Total	mg/L	0.000314	0.0176	0.2	0.714	0.722	0.204	0.170 to 0.230	96.5	70.0 to 130	1.11	20.0
BB18285	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.753	0.737	0.101	0.0850 to 0.115	97.0	70.0 to 130	2.15	20.0
BB18285	Magnesium, Total	mg/L	0.000371	0.0462	5.00	24.2	24.5	5.09	4.25 to 5.75	94.0	70.0 to 130	1.23	20.0
BB18285	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.105	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB18285	Calcium, Total	mg/L	0.000648	0.152	5.00	107	107	5.01	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BB18285	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0949	0.0973	0.0944	0.0850 to 0.115	94.8	70.0 to 130	2.50	20.0
BB18285	Potassium, Total	mg/L	0.0167	0.367	10.0	27.3	27.1	10.2	8.50 to 11.5	95.0	70.0 to 130	0.735	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 9/28/21 10:35

Customer ID:

Delivery Date: 9/30/21 09:54

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BB18279

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18283	Chloride	mg/L	0.0316	1.00	10.0	22.9	13.2	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BB18285	Solids, Dissolved	mg/L	0.0000	25.0			564	51.0	40.0 to 60.0			0.353	5.00
BB18283	Fluoride	mg/L	0.00717	0.100	2.50	2.90	0.0919	2.61	2.25 to 2.75	113	80.0 to 120	9.10	20.0
BB18283	Sulfate	mg/L	-0.186	1.00	400	655	200	19.0	18.0 to 22.0	112	80.0 to 120	2.47	20.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 9/28/21 12:11
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18280

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:37		1.015	2.94	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 13:29		10.15	127	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 10:37		1.015	0.671	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 10:37		1.015	0.0451	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 13:29		10.15	70.0	mg/L	0.21315	4.06	
* Sodium, Total	10/4/21 10:00	10/7/21 10:37		1.015	20.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:26		1.015	0.247	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 11:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 11:33		1.015	0.00222	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 11:33		1.015	0.0312	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 11:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 11:33		1.015	0.00155	mg/L	0.000203	0.001015	
* Cobalt, Total	10/4/21 15:05	10/5/21 11:33		1.015	0.000225	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 11:33		1.015	0.000718	mg/L	0.000068	0.000203	
* Molybdenum, Total	10/4/21 15:05	10/5/21 11:33		1.015	0.324	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 11:33		1.015	0.443	mg/L	0.169505	0.5075	J
* Manganese, Total	10/4/21 15:05	10/5/21 11:33		1.015	0.0188	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 11:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 12:17		1.015	0.0165	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 18:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	74.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	850	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 9/28/21 12:11
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18280

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	73.8	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.52	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 14:02	9/30/21 14:02		2	23.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:26	10/1/21 10:26		1	0.0697	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 12:34	10/6/21 12:34		25	528	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/28/21 12:08	9/28/21 12:08			1082.38	uS/cm			FA
pH	9/28/21 12:08	9/28/21 12:08			8.03	SU			FA
Temperature	9/28/21 12:08	9/28/21 12:08			21.54	C			FA
Turbidity	9/28/21 12:08	9/28/21 12:08			9.55	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 12:11

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BB18280

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18285	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.101	0.0977	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18285	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.108	0.106	0.108	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BB18285	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0
BB18285	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.189	0.185	0.101	0.0850 to 0.115	106	70.0 to 130	2.14	20.0
BB18285	Calcium, Total	mg/L	0.000648	0.152	5.00	107	107	5.01	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BB18285	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0949	0.0973	0.0944	0.0850 to 0.115	94.8	70.0 to 130	2.50	20.0
BB18285	Potassium, Total	mg/L	0.0167	0.367	10.0	27.3	27.1	10.2	8.50 to 11.5	95.0	70.0 to 130	0.735	20.0
BB18285	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB18285	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18285	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	1.18	1.19	0.0962	0.0850 to 0.115	70.0	70.0 to 130	0.844	20.0
BB18287	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.167	0.165	0.107	0.0850 to 0.115	102	70.0 to 130	1.20	20.0
BB18285	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.421	0.425	0.195	0.170 to 0.230	112	70.0 to 130	0.946	20.0
BB18285	Boron, Total	mg/L	0.000620	0.0650	1.00	3.49	3.52	1.01	0.850 to 1.15	96.0	70.0 to 130	0.856	20.0
BB18285	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0951	0.0933	0.0926	0.0850 to 0.115	95.1	70.0 to 130	1.91	20.0
BB18285	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.101	0.0991	0.0961	0.0850 to 0.115	98.9	70.0 to 130	1.90	20.0
BB18022	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00396	0.00393	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.760	20.0
BB18285	Sodium, Total	mg/L	0.000384	0.0660	5.00	39.7	39.9	5.00	4.25 to 5.75	104	70.0 to 130	0.503	20.0
BB18285	Iron, Total	mg/L	0.000314	0.0176	0.2	0.714	0.722	0.204	0.170 to 0.230	96.5	70.0 to 130	1.11	20.0
BB18290	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.303	0.301	0.204	0.170 to 0.230	99.5	70.0 to 130	0.662	20.0
BB18285	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.753	0.737	0.101	0.0850 to 0.115	97.0	70.0 to 130	2.15	20.0
BB18285	Magnesium, Total	mg/L	0.000371	0.0462	5.00	24.2	24.5	5.09	4.25 to 5.75	94.0	70.0 to 130	1.23	20.0
BB18285	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.105	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	2.82	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/28/21 12:11
Customer ID:
Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BB18280

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18283	Sulfate	mg/L	-0.186	1.00	400	655	200	19.0	18.0 to 22.0	112	80.0 to 120	2.47	20.0
BB18285	Solids, Dissolved	mg/L	0.0000	25.0			564	51.0	40.0 to 60.0			0.353	5.00
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18283	Chloride	mg/L	0.0316	1.00	10.0	22.9	13.2	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BB18283	Fluoride	mg/L	0.00717	0.100	2.50	2.90	0.0919	2.61	2.25 to 2.75	113	80.0 to 120	9.10	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP
Collected: 9/28/21 13:35
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18281

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:41		1.015	2.94	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 13:32		10.15	135	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 13:32		10.15	9.52	mg/L	0.08120	0.406	
* Lithium, Total	10/4/21 10:00	10/7/21 10:41		1.015	0.00723	mg/L	0.007105	0.01999956	J
* Magnesium, Total	10/4/21 10:00	10/7/21 13:32		10.15	49.9	mg/L	0.21315	4.06	
* Sodium, Total	10/4/21 10:00	10/7/21 10:41		1.015	17.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 14:55		10.15	8.84	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 11:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 11:37		1.015	0.00296	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 11:37		1.015	0.132	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 11:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 11:37		1.015	0.000300	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 11:37		1.015	0.000540	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 11:37		1.015	0.147	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 11:37		1.015	0.784	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 11:37		1.015	0.175	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 11:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 12:21		1.015	0.174	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 18:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	117	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	740	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP

Collected: 9/28/21 13:35

Customer ID:

Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18281

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	116	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.55	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	9/30/21 13:41	9/30/21 13:41		1	18.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:27	10/1/21 10:27		1	0.0942	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 12:36	10/6/21 12:36		25	423	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/28/21 13:32	9/28/21 13:32			1006.57	uS/cm			FA
pH	9/28/21 13:32	9/28/21 13:32			6.87	SU			FA
Temperature	9/28/21 13:32	9/28/21 13:32			20.50	C			FA
Turbidity	9/28/21 13:32	9/28/21 13:32			9.7	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 13:35

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BB18281

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18285	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.101	0.0977	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18285	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.108	0.106	0.108	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BB18285	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0
BB18285	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.189	0.185	0.101	0.0850 to 0.115	106	70.0 to 130	2.14	20.0
BB18285	Calcium, Total	mg/L	0.000648	0.152	5.00	107	107	5.01	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BB18285	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0949	0.0973	0.0944	0.0850 to 0.115	94.8	70.0 to 130	2.50	20.0
BB18285	Potassium, Total	mg/L	0.0167	0.367	10.0	27.3	27.1	10.2	8.50 to 11.5	95.0	70.0 to 130	0.735	20.0
BB18285	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.421	0.425	0.195	0.170 to 0.230	112	70.0 to 130	0.946	20.0
BB18285	Boron, Total	mg/L	0.000620	0.0650	1.00	3.49	3.52	1.01	0.850 to 1.15	96.0	70.0 to 130	0.856	20.0
BB18285	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0951	0.0933	0.0926	0.0850 to 0.115	95.1	70.0 to 130	1.91	20.0
BB18285	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.101	0.0991	0.0961	0.0850 to 0.115	98.9	70.0 to 130	1.90	20.0
BB18022	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00396	0.00393	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.760	20.0
BB18285	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB18285	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18285	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	1.18	1.19	0.0962	0.0850 to 0.115	70.0	70.0 to 130	0.844	20.0
BB18287	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.167	0.165	0.107	0.0850 to 0.115	102	70.0 to 130	1.20	20.0
BB18285	Sodium, Total	mg/L	0.000384	0.0660	5.00	39.7	39.9	5.00	4.25 to 5.75	104	70.0 to 130	0.503	20.0
BB18285	Iron, Total	mg/L	0.000314	0.0176	0.2	0.714	0.722	0.204	0.170 to 0.230	96.5	70.0 to 130	1.11	20.0
BB18290	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.303	0.301	0.204	0.170 to 0.230	99.5	70.0 to 130	0.662	20.0
BB18285	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.753	0.737	0.101	0.0850 to 0.115	97.0	70.0 to 130	2.15	20.0
BB18285	Magnesium, Total	mg/L	0.000371	0.0462	5.00	24.2	24.5	5.09	4.25 to 5.75	94.0	70.0 to 130	1.23	20.0
BB18285	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.105	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	2.82	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 13:35

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BB18281

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB18285	Solids, Dissolved	mg/L	0.0000	25.0			564	51.0	40.0 to 60.0			0.353	5.00
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18283	Chloride	mg/L	0.0316	1.00	10.0	22.9	13.2	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BB18283	Fluoride	mg/L	0.00717	0.100	2.50	2.90	0.0919	2.61	2.25 to 2.75	113	80.0 to 120	9.10	20.0
BB18283	Sulfate	mg/L	-0.186	1.00	400	655	200	19.0	18.0 to 22.0	112	80.0 to 120	2.47	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP
Collected: 9/28/21 14:21
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18282

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:44		1.015	4.32	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 13:35		10.15	170	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 10:44		1.015	0.0129	mg/L	0.008120	0.0406	J
* Lithium, Total	10/4/21 10:00	10/7/21 10:44		1.015	0.137	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 13:35		10.15	52.0	mg/L	0.21315	4.06	
* Sodium, Total	10/4/21 10:00	10/7/21 10:44		1.015	28.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:33		1.015	0.0133	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 11:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 11:40		1.015	0.00424	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 11:40		1.015	0.0603	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 11:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 11:40		1.015	0.0000799	mg/L	0.000068	0.000203	J
* Chromium, Total	10/4/21 15:05	10/5/21 11:40		1.015	0.000288	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 11:40		1.015	0.845	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 11:40		1.015	5.83	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 11:40		1.015	0.00280	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 11:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 12:24		1.015	0.00282	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 19:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	52.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	922	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP
Collected: 9/28/21 14:21
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18282

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	51.9	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.44	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:42	9/30/21 13:42		1	20.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:28	10/1/21 10:28		1	0.0828	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 12:37	10/6/21 12:37		40	583	mg/L	20.00	40	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/28/21 14:18	9/28/21 14:18			1191.90	uS/cm			FA
pH	9/28/21 14:18	9/28/21 14:18			7.76	SU			FA
Temperature	9/28/21 14:18	9/28/21 14:18			22.69	C			FA
Turbidity	9/28/21 14:18	9/28/21 14:18			1.11	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 14:21

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BB18282

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB18285	Calcium, Total	mg/L	0.000648	0.152	5.00	107	107	5.01	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BB18285	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0949	0.0973	0.0944	0.0850 to 0.115	94.8	70.0 to 130	2.50	20.0
BB18285	Potassium, Total	mg/L	0.0167	0.367	10.0	27.3	27.1	10.2	8.50 to 11.5	95.0	70.0 to 130	0.735	20.0
BB18285	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0
BB18285	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.189	0.185	0.101	0.0850 to 0.115	106	70.0 to 130	2.14	20.0
BB18285	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.421	0.425	0.195	0.170 to 0.230	112	70.0 to 130	0.946	20.0
BB18285	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.101	0.0977	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18285	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.108	0.106	0.108	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BB18285	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB18285	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18285	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	1.18	1.19	0.0962	0.0850 to 0.115	70.0	70.0 to 130	0.844	20.0
BB18287	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.167	0.165	0.107	0.0850 to 0.115	102	70.0 to 130	1.20	20.0
BB18285	Boron, Total	mg/L	0.000620	0.0650	1.00	3.49	3.52	1.01	0.850 to 1.15	96.0	70.0 to 130	0.856	20.0
BB18285	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0951	0.0933	0.0926	0.0850 to 0.115	95.1	70.0 to 130	1.91	20.0
BB18285	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.101	0.0991	0.0961	0.0850 to 0.115	98.9	70.0 to 130	1.90	20.0
BB18022	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00396	0.00393	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.760	20.0
BB18285	Sodium, Total	mg/L	0.000384	0.0660	5.00	39.7	39.9	5.00	4.25 to 5.75	104	70.0 to 130	0.503	20.0
BB18285	Iron, Total	mg/L	0.000314	0.0176	0.2	0.714	0.722	0.204	0.170 to 0.230	96.5	70.0 to 130	1.11	20.0
BB18290	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.303	0.301	0.204	0.170 to 0.230	99.5	70.0 to 130	0.662	20.0
BB18285	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.753	0.737	0.101	0.0850 to 0.115	97.0	70.0 to 130	2.15	20.0
BB18285	Magnesium, Total	mg/L	0.000371	0.0462	5.00	24.2	24.5	5.09	4.25 to 5.75	94.0	70.0 to 130	1.23	20.0
BB18285	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.105	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	2.82	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 14:21

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BB18282

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18283	Chloride	mg/L	0.0316	1.00	10.0	22.9	13.2	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BB18283	Sulfate	mg/L	-0.186	1.00	400	655	200	19.0	18.0 to 22.0	112	80.0 to 120	2.47	20.0
BB18283	Fluoride	mg/L	0.00717	0.100	2.50	2.90	0.0919	2.61	2.25 to 2.75	113	80.0 to 120	9.10	20.0
BB18285	Solids, Dissolved	mg/L	0.0000	25.0			564	51.0	40.0 to 60.0			0.353	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 9/28/21 15:20
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18283

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:48		1.015	1.58	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 13:39		10.15	122	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 10:48		1.015	0.482	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 10:48		1.015	0.0506	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 13:39		10.15	49.3	mg/L	0.21315	4.06	
* Sodium, Total	10/4/21 10:00	10/7/21 10:48		1.015	11.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:36		1.015	0.227	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 11:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 11:44		1.015	0.00416	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 11:44		1.015	0.0525	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 11:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 11:44		1.015	0.000291	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 11:44		1.015	0.00132	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 11:44		1.015	0.0592	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 11:44		1.015	2.83	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 11:44		1.015	0.561	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 11:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 11:44		1.015	0.000358	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 12:28		1.015	0.586	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 19:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	302	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	608	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 9/28/21 15:20
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18283

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	302	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.30	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 13:43	9/30/21 13:43		1	13.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:30	10/1/21 10:30		1	0.0839	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 12:38	10/6/21 12:38		20	205	mg/L	10.00	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/28/21 15:17	9/28/21 15:17			877.74	uS/cm			FA
pH	9/28/21 15:17	9/28/21 15:17			6.48	SU			FA
Temperature	9/28/21 15:17	9/28/21 15:17			20.16	C			FA
Turbidity	9/28/21 15:17	9/28/21 15:17			1.9	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 15:20

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BB18283

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18285	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.101	0.0977	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18285	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.108	0.106	0.108	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BB18285	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.421	0.425	0.195	0.170 to 0.230	112	70.0 to 130	0.946	20.0
BB18285	Calcium, Total	mg/L	0.000648	0.152	5.00	107	107	5.01	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BB18285	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.0949	0.0973	0.0944	0.0850 to 0.115	94.8	70.0 to 130	2.50	20.0
BB18285	Potassium, Total	mg/L	0.0167	0.367	10.0	27.3	27.1	10.2	8.50 to 11.5	95.0	70.0 to 130	0.735	20.0
BB18285	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0
BB18285	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.189	0.185	0.101	0.0850 to 0.115	106	70.0 to 130	2.14	20.0
BB18285	Boron, Total	mg/L	0.000620	0.0650	1.00	3.49	3.52	1.01	0.850 to 1.15	96.0	70.0 to 130	0.856	20.0
BB18285	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0951	0.0933	0.0926	0.0850 to 0.115	95.1	70.0 to 130	1.91	20.0
BB18285	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.101	0.0991	0.0961	0.0850 to 0.115	98.9	70.0 to 130	1.90	20.0
BB18022	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00396	0.00393	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.760	20.0
BB18285	Sodium, Total	mg/L	0.000384	0.0660	5.00	39.7	39.9	5.00	4.25 to 5.75	104	70.0 to 130	0.503	20.0
BB18285	Iron, Total	mg/L	0.000314	0.0176	0.2	0.714	0.722	0.204	0.170 to 0.230	96.5	70.0 to 130	1.11	20.0
BB18290	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.303	0.301	0.204	0.170 to 0.230	99.5	70.0 to 130	0.662	20.0
BB18285	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.753	0.737	0.101	0.0850 to 0.115	97.0	70.0 to 130	2.15	20.0
BB18285	Magnesium, Total	mg/L	0.000371	0.0462	5.00	24.2	24.5	5.09	4.25 to 5.75	94.0	70.0 to 130	1.23	20.0
BB18285	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.105	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB18285	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB18285	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18285	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	1.18	1.19	0.0962	0.0850 to 0.115	70.0	70.0 to 130	0.844	20.0
BB18287	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.167	0.165	0.107	0.0850 to 0.115	102	70.0 to 130	1.20	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/28/21 15:20
Customer ID:
Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BB18283

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18283	Fluoride	mg/L	0.00717	0.100	2.50	2.90	0.0919	2.61	2.25 to 2.75	113	80.0 to 120	9.10	20.0
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18283	Chloride	mg/L	0.0316	1.00	10.0	22.9	13.2	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BB18285	Solids, Dissolved	mg/L	0.0000	25.0			564	51.0	40.0 to 60.0			0.353	5.00
BB18283	Sulfate	mg/L	-0.186	1.00	400	655	200	19.0	18.0 to 22.0	112	80.0 to 120	2.47	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP
Collected: 9/29/21 09:06
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18284

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:51		1.015	3.37	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 13:42		10.15	177	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 10:51		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/4/21 10:00	10/7/21 10:51		1.015	1.03	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 10:51		1.015	8.21	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 13:42		10.15	41.6	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 11:47		1.015	0.00941	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 11:47		1.015	0.119	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 11:47		1.015	0.000341	mg/L	0.000068	0.000203	
* Chromium, Total	10/4/21 15:05	10/5/21 11:47		1.015	0.000285	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 13:34		5.075	3.23	mg/L	0.000340	0.001015	
* Potassium, Total	10/4/21 15:05	10/5/21 11:47		1.015	34.6	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 11:47		1.015	0.0110	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 12:32		1.015	0.0111	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 19:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	24.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	842	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP
Collected: 9/29/21 09:06
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18284

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	18.1	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	4.69	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	9/30/21 14:50	9/30/21 14:50		10	94.3	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:43	10/1/21 10:43		1	0.211	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:16	10/6/21 13:16		25	425	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/29/21 09:03	9/29/21 09:03			1182.49	uS/cm			FA
pH	9/29/21 09:03	9/29/21 09:03			9.33	SU			FA
Temperature	9/29/21 09:03	9/29/21 09:03			21.16	C			FA
Turbidity	9/29/21 09:03	9/29/21 09:03			0.33	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/29/21 09:06
Customer ID:
Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BB18284

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB18285	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0
BB18285	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.189	0.185	0.101	0.0850 to 0.115	106	70.0 to 130	2.14	20.0
BB18285	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.421	0.425	0.195	0.170 to 0.230	112	70.0 to 130	0.946	20.0
BB18285	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.101	0.0977	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18285	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.108	0.106	0.108	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BB18285	Calcium, Total	mg/L	0.000648	0.152	5.00	107	107	5.01	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BB18285	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0949	0.0973	0.0944	0.0850 to 0.115	94.8	70.0 to 130	2.50	20.0
BB18285	Potassium, Total	mg/L	0.0167	0.367	10.0	27.3	27.1	10.2	8.50 to 11.5	95.0	70.0 to 130	0.735	20.0
BB18285	Boron, Total	mg/L	0.000620	0.0650	1.00	3.49	3.52	1.01	0.850 to 1.15	96.0	70.0 to 130	0.856	20.0
BB18285	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0951	0.0933	0.0926	0.0850 to 0.115	95.1	70.0 to 130	1.91	20.0
BB18285	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.101	0.0991	0.0961	0.0850 to 0.115	98.9	70.0 to 130	1.90	20.0
BB18022	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00396	0.00393	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.760	20.0
BB18285	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB18285	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18285	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	1.18	1.19	0.0962	0.0850 to 0.115	70.0	70.0 to 130	0.844	20.0
BB18287	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.167	0.165	0.107	0.0850 to 0.115	102	70.0 to 130	1.20	20.0
BB18285	Sodium, Total	mg/L	0.000384	0.0660	5.00	39.7	39.9	5.00	4.25 to 5.75	104	70.0 to 130	0.503	20.0
BB18285	Iron, Total	mg/L	0.000314	0.0176	0.2	0.714	0.722	0.204	0.170 to 0.230	96.5	70.0 to 130	1.11	20.0
BB18290	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.303	0.301	0.204	0.170 to 0.230	99.5	70.0 to 130	0.662	20.0
BB18285	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.753	0.737	0.101	0.0850 to 0.115	97.0	70.0 to 130	2.15	20.0
BB18285	Magnesium, Total	mg/L	0.000371	0.0462	5.00	24.2	24.5	5.09	4.25 to 5.75	94.0	70.0 to 130	1.23	20.0
BB18285	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.105	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	2.82	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/29/21 09:06

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BB18284

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18293	Sulfate	mg/L	-0.0313	1.00	200	346	132	19.1	18.0 to 22.0	106	80.0 to 120	0.755	20.0
BB18285	Solids, Dissolved	mg/L	0.0000	25.0			564	51.0	40.0 to 60.0			0.353	5.00
BB18293	Fluoride	mg/L	-0.00201	0.100	2.50	2.84	0.0716	2.63	2.25 to 2.75	111	80.0 to 120	9.20	20.0
BB18293	Chloride	mg/L	0.0475	1.00	10.0	27.7	18.3	10.0	9.00 to 11.0	94.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP
Collected: 9/29/21 09:51
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18285

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 10:54		1.015	2.53	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 13:46		10.15	103	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 10:54		1.015	0.521	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 10:54		1.015	0.196	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 10:54		1.015	19.5	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 10:54		1.015	34.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:43		1.015	0.475	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 11:51		1.015	0.00207	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 11:51		1.015	0.0826	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 11:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 11:51		1.015	0.000104	mg/L	0.000068	0.000203	J
* Chromium, Total	10/4/21 15:05	10/5/21 11:51		1.015	0.000268	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 11:51		1.015	0.00206	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 11:51		1.015	1.11	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 11:51		1.015	17.8	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 11:51		1.015	0.656	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 11:51		1.015	0.000213	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 12:35		1.015	0.674	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 19:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	42.7	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	568	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP
Collected: 9/29/21 09:51
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18285

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	42.5	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.14	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 14:52	9/30/21 14:52		5	41.9	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:44	10/1/21 10:44		1	0.120	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:17	10/6/21 13:17		20	304	mg/L	10.00	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/29/21 09:48	9/29/21 09:48			831.60	uS/cm			FA
pH	9/29/21 09:48	9/29/21 09:48			7.61	SU			FA
Temperature	9/29/21 09:48	9/29/21 09:48			21.73	C			FA
Turbidity	9/29/21 09:48	9/29/21 09:48			0.81	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/29/21 09:51

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BB18285

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB18285	Lithium, Total	mg/L	-5.820E-05	0.0154	0.200	0.421	0.425	0.195	0.170 to 0.230	112	70.0 to 130	0.946	20.0
BB18285	Calcium, Total	mg/L	0.000648	0.152	5.00	107	107	5.01	4.25 to 5.75	80.0	70.0 to 130	0.00	20.0
BB18285	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0949	0.0973	0.0944	0.0850 to 0.115	94.8	70.0 to 130	2.50	20.0
BB18285	Potassium, Total	mg/L	0.0167	0.367	10.0	27.3	27.1	10.2	8.50 to 11.5	95.0	70.0 to 130	0.735	20.0
BB18285	Antimony, Total	mg/L	0.0000716	0.00100	0.100	0.103	0.101	0.0977	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18285	Lead, Total	mg/L	0.0000038	0.000147	0.100	0.108	0.106	0.108	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BB18285	Boron, Total	mg/L	0.000620	0.0650	1.00	3.49	3.52	1.01	0.850 to 1.15	96.0	70.0 to 130	0.856	20.0
BB18285	Beryllium, Total	mg/L	0.0000263	0.000880	0.100	0.0951	0.0933	0.0926	0.0850 to 0.115	95.1	70.0 to 130	1.91	20.0
BB18285	Cobalt, Total	mg/L	-0.0000538	0.000147	0.100	0.101	0.0991	0.0961	0.0850 to 0.115	98.9	70.0 to 130	1.90	20.0
BB18022	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00396	0.00393	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.760	20.0
BB18285	Thallium, Total	mg/L	-0.0000711	0.000147	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BB18285	Selenium, Total	mg/L	0.0000223	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB18285	Molybdenum, Total	mg/L	-0.0000001	0.000147	0.100	1.18	1.19	0.0962	0.0850 to 0.115	70.0	70.0 to 130	0.844	20.0
BB18287	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.167	0.165	0.107	0.0850 to 0.115	102	70.0 to 130	1.20	20.0
BB18285	Chromium, Total	mg/L	0.0000377	0.000440	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0
BB18285	Barium, Total	mg/L	-0.0000112	0.000200	0.100	0.189	0.185	0.101	0.0850 to 0.115	106	70.0 to 130	2.14	20.0
BB18285	Sodium, Total	mg/L	0.000384	0.0660	5.00	39.7	39.9	5.00	4.25 to 5.75	104	70.0 to 130	0.503	20.0
BB18285	Iron, Total	mg/L	0.000314	0.0176	0.2	0.714	0.722	0.204	0.170 to 0.230	96.5	70.0 to 130	1.11	20.0
BB18290	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.303	0.301	0.204	0.170 to 0.230	99.5	70.0 to 130	0.662	20.0
BB18285	Manganese, Total	mg/L	0.0000035	0.000147	0.100	0.753	0.737	0.101	0.0850 to 0.115	97.0	70.0 to 130	2.15	20.0
BB18285	Magnesium, Total	mg/L	0.000371	0.0462	5.00	24.2	24.5	5.09	4.25 to 5.75	94.0	70.0 to 130	1.23	20.0
BB18285	Arsenic, Total	mg/L	0.0000126	0.000147	0.100	0.105	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	2.82	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/29/21 09:51

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BB18285

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18285	Solids, Dissolved	mg/L	0.0000	25.0			564	51.0	40.0 to 60.0			0.353	5.00
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18293	Sulfate	mg/L	-0.0313	1.00	200	346	132	19.1	18.0 to 22.0	106	80.0 to 120	0.755	20.0
BB18293	Fluoride	mg/L	-0.00201	0.100	2.50	2.84	0.0716	2.63	2.25 to 2.75	111	80.0 to 120	9.20	20.0
BB18293	Chloride	mg/L	0.0475	1.00	10.0	27.7	18.3	10.0	9.00 to 11.0	94.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 9/29/21 11:12
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18286

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 11:18		1.015	2.03	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 14:02		10.15	71.5	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 11:18		1.015	0.0714	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 11:18		1.015	0.467	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 11:18		1.015	25.4	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 11:18		1.015	35.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:46		1.015	0.0482	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 12:20		1.015	0.00150	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 12:20		1.015	0.0502	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 12:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 12:20		1.015	0.000167	mg/L	0.000068	0.000203	J
* Chromium, Total	10/4/21 15:05	10/5/21 12:20		1.015	0.000331	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 13:38		5.075	2.12	mg/L	0.000340	0.001015	
* Potassium, Total	10/4/21 15:05	10/5/21 12:20		1.015	28.0	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 12:20		1.015	0.00602	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 12:39		1.015	0.00555	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 19:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/4/21 11:14	10/4/21 12:13		1	36.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	509	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 9/29/21 11:12
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18286

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	35.3	mg/L			
Carbonate Alkalinity, (calc.)	10/4/21 11:14	10/4/21 12:13		1	0.74	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 14:53	9/30/21 14:53		5	39.2	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:46	10/1/21 10:46		1	0.0713	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:18	10/6/21 13:18		20	283	mg/L	10.00	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/29/21 11:09	9/29/21 11:09			774.65	uS/cm			FA
pH	9/29/21 11:09	9/29/21 11:09			8.30	SU			FA
Temperature	9/29/21 11:09	9/29/21 11:09			22.94	C			FA
Turbidity	9/29/21 11:09	9/29/21 11:09			1.21	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/29/21 11:12

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BB18286

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB18295	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.127	0.127	0.0988	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BB18287	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.167	0.165	0.107	0.0850 to 0.115	102	70.0 to 130	1.20	20.0
BB18295	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.113	0.113	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BB18295	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.225	0.227	0.207	0.170 to 0.230	98.8	70.0 to 130	0.885	20.0
BB18295	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB18295	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.222	0.222	0.199	0.170 to 0.230	111	70.0 to 130	0.00	20.0
BB18295	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00392	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18290	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.303	0.301	0.204	0.170 to 0.230	99.5	70.0 to 130	0.662	20.0
BB18295	Potassium, Total	mg/L	0.00187	0.367	10.0	11.6	11.6	9.76	8.50 to 11.5	95.1	70.0 to 130	0.00	20.0
BB18295	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BB18295	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.103	0.0953	0.0970	0.0850 to 0.115	103	70.0 to 130	7.77	20.0
BB18295	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	65.4	64.6	5.05	4.25 to 5.75	96.0	70.0 to 130	1.23	20.0
BB18295	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.134	0.130	0.102	0.0850 to 0.115	106	70.0 to 130	3.03	20.0
BB18295	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0956	0.0959	0.0985	0.0850 to 0.115	95.6	70.0 to 130	0.313	20.0
BB18295	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.103	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18295	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0970	0.0957	0.0980	0.0850 to 0.115	97.0	70.0 to 130	1.35	20.0
BB18295	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB18295	Calcium, Total	mg/L	0.000147	0.152	5.00	35.5	35.5	5.05	4.25 to 5.75	106	70.0 to 130	0.00	20.0
BB18295	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	26.4	26.9	5.15	4.25 to 5.75	100	70.0 to 130	1.88	20.0
BB18295	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.106	0.102	0.102	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BB18295	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.111	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB18295	Boron, Total	mg/L	0.000956	0.0650	1.00	1.19	1.19	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/29/21 11:12

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BB18286

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18293	Chloride	mg/L	0.0475	1.00	10.0	27.7	18.3	10.0	9.00 to 11.0	94.0	80.0 to 120	0.00	20.0
BB18293	Fluoride	mg/L	-0.00201	0.100	2.50	2.84	0.0716	2.63	2.25 to 2.75	111	80.0 to 120	9.20	20.0
BB18286	Alkalinity, Total as CaCO3	mg/L					37.5	51.9	45.0 to 55.0			3.53	10.0
BB18297	Solids, Dissolved	mg/L	0.0000	25.0			413	51.0	40.0 to 60.0			0.242	5.00
BB18293	Sulfate	mg/L	-0.0313	1.00	200	346	132	19.1	18.0 to 22.0	106	80.0 to 120	0.755	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP
Collected: 9/29/21 13:34
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18287

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 11:21		1.015	0.117	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 11:21		1.015	37.6	mg/L	0.070035	0.406	
* Iron, Total	10/4/21 10:00	10/7/21 11:21		1.015	0.654	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 11:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 11:21		1.015	22.8	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 11:21		1.015	28.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:50		1.015	0.486	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 12:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 12:23		1.015	0.00232	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 12:23		1.015	0.0190	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 12:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 12:23		1.015	0.000230	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 12:23		1.015	0.0199	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 12:23		1.015	0.773	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 12:23		1.015	0.0656	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 12:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 12:42		1.015	0.0655	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 19:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/7/21 10:42	10/7/21 11:11		1	218	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/1/21 11:21	10/5/21 09:36		1	275	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP
Collected: 9/29/21 13:34
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18287

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	216	mg/L			
Carbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	1.54	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 14:54	9/30/21 14:54		1	11.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:47	10/1/21 10:47		1	0.223	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:19	10/6/21 13:19		1	38.5	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	9/29/21 13:34	9/29/21 13:34			446.13	uS/cm			FA
pH	9/29/21 13:34	9/29/21 13:34			7.83	SU			FA
Temperature	9/29/21 13:34	9/29/21 13:34			24.68	C			FA
Turbidity	9/29/21 13:34	9/29/21 13:34			0.64	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/29/21 13:34
Customer ID:
Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BB18287

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18295	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00392	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18290	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.303	0.301	0.204	0.170 to 0.230	99.5	70.0 to 130	0.662	20.0
BB18295	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.225	0.227	0.207	0.170 to 0.230	98.8	70.0 to 130	0.885	20.0
BB18295	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB18295	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.222	0.222	0.199	0.170 to 0.230	111	70.0 to 130	0.00	20.0
BB18295	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.127	0.127	0.0988	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BB18287	Manganese, Dissolved	mg/L	0.0000007	0.000147	0.100	0.167	0.165	0.107	0.0850 to 0.115	102	70.0 to 130	1.20	20.0
BB18295	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.113	0.113	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BB18295	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.134	0.130	0.102	0.0850 to 0.115	106	70.0 to 130	3.03	20.0
BB18295	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0956	0.0959	0.0985	0.0850 to 0.115	95.6	70.0 to 130	0.313	20.0
BB18295	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	26.4	26.9	5.15	4.25 to 5.75	100	70.0 to 130	1.88	20.0
BB18295	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.106	0.102	0.102	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BB18295	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.111	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB18295	Boron, Total	mg/L	0.000956	0.0650	1.00	1.19	1.19	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB18295	Potassium, Total	mg/L	0.00187	0.367	10.0	11.6	11.6	9.76	8.50 to 11.5	95.1	70.0 to 130	0.00	20.0
BB18295	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BB18295	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.103	0.0953	0.0970	0.0850 to 0.115	103	70.0 to 130	7.77	20.0
BB18295	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	65.4	64.6	5.05	4.25 to 5.75	96.0	70.0 to 130	1.23	20.0
BB18295	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.103	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18295	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0970	0.0957	0.0980	0.0850 to 0.115	97.0	70.0 to 130	1.35	20.0
BB18295	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB18295	Calcium, Total	mg/L	0.000147	0.152	5.00	35.5	35.5	5.05	4.25 to 5.75	106	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/29/21 13:34

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BB18287

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18293	Sulfate	mg/L	-0.0313	1.00	200	346	132	19.1	18.0 to 22.0	106	80.0 to 120	0.755	20.0
BB18298	Solids, Dissolved	mg/L	2.00	25.0			852	54.0	40.0 to 60.0			0.472	5.00
BB18293	Fluoride	mg/L	-0.00201	0.100	2.50	2.84	0.0716	2.63	2.25 to 2.75	111	80.0 to 120	9.20	20.0
BB18293	Chloride	mg/L	0.0475	1.00	10.0	27.7	18.3	10.0	9.00 to 11.0	94.0	80.0 to 120	0.00	20.0
BB18298	Alkalinity, Total as CaCO3	mg/L					99.5	51.3	45.0 to 55.0			3.06	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond Equipment Blank-1

Location Code: WMWGAPEB
Collected: 9/29/21 14:45
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18288

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	10/4/21 10:00	10/7/21 11:25		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/4/21 10:00	10/7/21 11:25		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	10/4/21 10:00	10/7/21 11:25		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/4/21 10:00	10/7/21 11:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/4/21 10:00	10/7/21 11:25		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Sodium, Total	10/4/21 10:00	10/7/21 11:25		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/4/21 15:05	10/5/21 12:27		1.015	0.000299	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	10/4/21 15:05	10/5/21 12:27		1.015	0.0000751	mg/L	0.000068	0.000203	J	
* Manganese, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/4/21 15:05	10/5/21 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 19:54		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	10/1/21 11:21	10/5/21 09:36		1	Not Detected	mg/L		25	U	
Analytical Method: SM4500CI E		Analyst: JCC								
* Chloride	9/30/21 14:55	9/30/21 14:55		1	Not Detected	mg/L	0.50	1	U	
Analytical Method: SM4500F G 2017		Analyst: JCC								
* Fluoride	10/1/21 10:48	10/1/21 10:48		1	Not Detected	mg/L	0.06	0.1	U	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC								
* Sulfate	10/6/21 13:20	10/6/21 13:20		1	Not Detected	mg/L	0.50	1	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPEB

Sample Date: 9/29/21 14:45

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BB18288

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB18295	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00392	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18295	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.225	0.227	0.207	0.170 to 0.230	98.8	70.0 to 130	0.885	20.0
BB18295	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB18295	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.222	0.222	0.199	0.170 to 0.230	111	70.0 to 130	0.00	20.0
BB18295	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.134	0.130	0.102	0.0850 to 0.115	106	70.0 to 130	3.03	20.0
BB18295	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0956	0.0959	0.0985	0.0850 to 0.115	95.6	70.0 to 130	0.313	20.0
BB18295	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.127	0.127	0.0988	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BB18295	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.113	0.113	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BB18295	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	26.4	26.9	5.15	4.25 to 5.75	100	70.0 to 130	1.88	20.0
BB18295	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.106	0.102	0.102	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BB18295	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.111	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB18295	Boron, Total	mg/L	0.000956	0.0650	1.00	1.19	1.19	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB18295	Potassium, Total	mg/L	0.00187	0.367	10.0	11.6	11.6	9.76	8.50 to 11.5	95.1	70.0 to 130	0.00	20.0
BB18295	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BB18295	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.103	0.0953	0.0970	0.0850 to 0.115	103	70.0 to 130	7.77	20.0
BB18295	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	65.4	64.6	5.05	4.25 to 5.75	96.0	70.0 to 130	1.23	20.0
BB18295	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.103	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18295	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0970	0.0957	0.0980	0.0850 to 0.115	97.0	70.0 to 130	1.35	20.0
BB18295	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB18295	Calcium, Total	mg/L	0.000147	0.152	5.00	35.5	35.5	5.05	4.25 to 5.75	106	70.0 to 130	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPEB

Sample Date: 9/29/21 14:45

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BB18288

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18298	Solids, Dissolved	mg/L	2.00	25.0			852	54.0	40.0 to 60.0			0.472	5.00
BB18293	Chloride	mg/L	0.0475	1.00	10.0	27.7	18.3	10.0	9.00 to 11.0	94.0	80.0 to 120	0.00	20.0
BB18293	Sulfate	mg/L	-0.0313	1.00	200	346	132	19.1	18.0 to 22.0	106	80.0 to 120	0.755	20.0
BB18293	Fluoride	mg/L	-0.00201	0.100	2.50	2.84	0.0716	2.63	2.25 to 2.75	111	80.0 to 120	9.20	20.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-1

Location Code: WMWGASAPFB
Collected: 9/27/21 12:30
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18289

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	10/4/21 10:00	10/7/21 11:28		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/4/21 10:00	10/7/21 11:28		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	10/4/21 10:00	10/7/21 11:28		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/4/21 10:00	10/7/21 11:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/4/21 10:00	10/7/21 11:28		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Sodium, Total	10/4/21 10:00	10/7/21 11:28		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/4/21 15:05	10/5/21 12:30		1.015	0.000239	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/4/21 15:05	10/5/21 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 19:58		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	Not Detected	mg/L		25	U	
Analytical Method: SM4500CI E		Analyst: JCC								
* Chloride	9/30/21 14:57	9/30/21 14:57		1	Not Detected	mg/L	0.50	1	U	
Analytical Method: SM4500F G 2017		Analyst: JCC								
* Fluoride	10/1/21 10:49	10/1/21 10:49		1	Not Detected	mg/L	0.06	0.1	U	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC								
* Sulfate	10/6/21 13:22	10/6/21 13:22		1	Not Detected	mg/L	0.50	1	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 9/27/21 12:30

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BB18289

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			
BB18295	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	26.4	26.9	5.15	4.25 to 5.75	100	70.0 to 130	1.88	20.0
BB18295	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.106	0.102	0.102	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BB18295	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.111	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB18295	Boron, Total	mg/L	0.000956	0.0650	1.00	1.19	1.19	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB18295	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00392	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18295	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.134	0.130	0.102	0.0850 to 0.115	106	70.0 to 130	3.03	20.0
BB18295	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0956	0.0959	0.0985	0.0850 to 0.115	95.6	70.0 to 130	0.313	20.0
BB18295	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.225	0.227	0.207	0.170 to 0.230	98.8	70.0 to 130	0.885	20.0
BB18295	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB18295	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.222	0.222	0.199	0.170 to 0.230	111	70.0 to 130	0.00	20.0
BB18295	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.127	0.127	0.0988	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BB18295	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.113	0.113	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BB18295	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.103	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18295	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0970	0.0957	0.0980	0.0850 to 0.115	97.0	70.0 to 130	1.35	20.0
BB18295	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB18295	Calcium, Total	mg/L	0.000147	0.152	5.00	35.5	35.5	5.05	4.25 to 5.75	106	70.0 to 130	0.00	20.0
BB18295	Potassium, Total	mg/L	0.00187	0.367	10.0	11.6	11.6	9.76	8.50 to 11.5	95.1	70.0 to 130	0.00	20.0
BB18295	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BB18295	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.103	0.0953	0.0970	0.0850 to 0.115	103	70.0 to 130	7.77	20.0
BB18295	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	65.4	64.6	5.05	4.25 to 5.75	96.0	70.0 to 130	1.23	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 9/27/21 12:30

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BB18289

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB18293	Chloride	mg/L	0.0475	1.00	10.0	27.7	18.3	10.0	9.00 to 11.0	94.0	80.0 to 120	0.00	20.0
BB18293	Fluoride	mg/L	-0.00201	0.100	2.50	2.84	0.0716	2.63	2.25 to 2.75	111	80.0 to 120	9.20	20.0
BB18297	Solids, Dissolved	mg/L	0.0000	25.0			413	51.0	40.0 to 60.0			0.242	5.00
BB18293	Sulfate	mg/L	-0.0313	1.00	200	346	132	19.1	18.0 to 22.0	106	80.0 to 120	0.755	20.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP
Collected: 9/28/21 08:50
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18290

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 11:31		1.015	2.34	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 14:06		10.15	92.5	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 11:31		1.015	0.114	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 11:31		1.015	0.0326	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 11:31		1.015	26.9	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 14:06		10.15	50.3	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 13:53		1.015	0.104	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 12:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 12:34		1.015	0.000835	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 12:34		1.015	0.0615	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 12:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 12:34		1.015	0.000309	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 12:34		1.015	0.000400	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 12:34		1.015	0.137	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 12:34		1.015	6.20	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 12:34		1.015	0.559	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 12:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 13:11		1.015	0.598	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 20:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/7/21 10:42	10/7/21 11:11		1	97.6	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	566	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP
Collected: 9/28/21 08:50
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18290

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	97.2	mg/L			
Carbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	0.37	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 14:58	9/30/21 14:58		10	98.3	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:50	10/1/21 10:50		1	0.0900	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:23	10/6/21 13:23		16	245	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/28/21 08:47	9/28/21 08:47			907.35	uS/cm			FA
pH	9/28/21 08:47	9/28/21 08:47			7.63	SU			FA
Temperature	9/28/21 08:47	9/28/21 08:47			19.79	C			FA
Turbidity	9/28/21 08:47	9/28/21 08:47			0.88	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/28/21 08:50
Customer ID:
Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BB18290

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18295	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00392	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18290	Iron, Dissolved	mg/L	0.000578	0.0176	0.2	0.303	0.301	0.204	0.170 to 0.230	99.5	70.0 to 130	0.662	20.0
BB18295	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.127	0.127	0.0988	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BB18295	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.113	0.113	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BB18295	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.134	0.130	0.102	0.0850 to 0.115	106	70.0 to 130	3.03	20.0
BB18295	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0956	0.0959	0.0985	0.0850 to 0.115	95.6	70.0 to 130	0.313	20.0
BB18295	Potassium, Total	mg/L	0.00187	0.367	10.0	11.6	11.6	9.76	8.50 to 11.5	95.1	70.0 to 130	0.00	20.0
BB18295	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BB18295	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.103	0.0953	0.0970	0.0850 to 0.115	103	70.0 to 130	7.77	20.0
BB18295	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	65.4	64.6	5.05	4.25 to 5.75	96.0	70.0 to 130	1.23	20.0
BB18295	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.225	0.227	0.207	0.170 to 0.230	98.8	70.0 to 130	0.885	20.0
BB18295	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB18295	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.222	0.222	0.199	0.170 to 0.230	111	70.0 to 130	0.00	20.0
BB18295	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.103	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18295	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0970	0.0957	0.0980	0.0850 to 0.115	97.0	70.0 to 130	1.35	20.0
BB18295	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB18295	Calcium, Total	mg/L	0.000147	0.152	5.00	35.5	35.5	5.05	4.25 to 5.75	106	70.0 to 130	0.00	20.0
BB18298	Manganese, Dissolved	mg/L	0.0000019	0.000147	0.100	0.177	0.177	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18295	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	26.4	26.9	5.15	4.25 to 5.75	100	70.0 to 130	1.88	20.0
BB18295	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.106	0.102	0.102	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BB18295	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.111	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB18295	Boron, Total	mg/L	0.000956	0.0650	1.00	1.19	1.19	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 08:50

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BB18290

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB18297	Solids, Dissolved	mg/L	0.0000	25.0			413	51.0	40.0 to 60.0			0.242	5.00
BB18293	Sulfate	mg/L	-0.0313	1.00	200	346	132	19.1	18.0 to 22.0	106	80.0 to 120	0.755	20.0
BB18293	Fluoride	mg/L	-0.00201	0.100	2.50	2.84	0.0716	2.63	2.25 to 2.75	111	80.0 to 120	9.20	20.0
BB18293	Chloride	mg/L	0.0475	1.00	10.0	27.7	18.3	10.0	9.00 to 11.0	94.0	80.0 to 120	0.00	20.0
BB18298	Alkalinity, Total as CaCO3	mg/L					99.5	51.3	45.0 to 55.0			3.06	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP
Collected: 9/28/21 10:40
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18291

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 11:35		1.015	1.37	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 14:09		10.15	42.3	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 11:35		1.015	0.0189	mg/L	0.008120	0.0406	J
* Lithium, Total	10/4/21 10:00	10/7/21 11:35		1.015	0.318	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 11:35		1.015	13.0	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 11:35		1.015	24.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 14:17		1.015	0.0127	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 12:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 12:37		1.015	0.00120	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 12:37		1.015	0.0547	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 12:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 12:37		1.015	0.0000811	mg/L	0.000068	0.000203	J
* Chromium, Total	10/4/21 15:05	10/5/21 12:37		1.015	0.000330	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 12:37		1.015	0.000872	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 12:37		1.015	0.653	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 12:37		1.015	16.8	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 12:37		1.015	0.0129	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 12:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 12:37		1.015	0.000466	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 13:14		1.015	0.0125	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 20:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/7/21 10:42	10/7/21 11:11		1	39.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	297	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP
Collected: 9/28/21 10:40
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18291

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	38.2	mg/L			
Carbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	1.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 14:59	9/30/21 14:59		2	23.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:52	10/1/21 10:52		1	0.0851	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:24	10/6/21 13:24		10	177	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/28/21 10:36	9/28/21 10:36			480.89	uS/cm			FA
pH	9/28/21 10:36	9/28/21 10:36			8.59	SU			FA
Temperature	9/28/21 10:36	9/28/21 10:36			20.91	C			FA
Turbidity	9/28/21 10:36	9/28/21 10:36			1.27	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 10:40

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BB18291

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18295	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00392	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18295	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.134	0.130	0.102	0.0850 to 0.115	106	70.0 to 130	3.03	20.0
BB18295	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0956	0.0959	0.0985	0.0850 to 0.115	95.6	70.0 to 130	0.313	20.0
BB18295	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.103	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18295	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0970	0.0957	0.0980	0.0850 to 0.115	97.0	70.0 to 130	1.35	20.0
BB18295	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB18295	Calcium, Total	mg/L	0.000147	0.152	5.00	35.5	35.5	5.05	4.25 to 5.75	106	70.0 to 130	0.00	20.0
BB18298	Manganese, Dissolved	mg/L	0.0000019	0.000147	0.100	0.177	0.177	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18295	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	26.4	26.9	5.15	4.25 to 5.75	100	70.0 to 130	1.88	20.0
BB18295	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.106	0.102	0.102	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BB18295	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.111	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB18295	Boron, Total	mg/L	0.000956	0.0650	1.00	1.19	1.19	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB18295	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.225	0.227	0.207	0.170 to 0.230	98.8	70.0 to 130	0.885	20.0
BB18295	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB18295	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.222	0.222	0.199	0.170 to 0.230	111	70.0 to 130	0.00	20.0
BB18295	Potassium, Total	mg/L	0.00187	0.367	10.0	11.6	11.6	9.76	8.50 to 11.5	95.1	70.0 to 130	0.00	20.0
BB18295	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BB18295	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.103	0.0953	0.0970	0.0850 to 0.115	103	70.0 to 130	7.77	20.0
BB18295	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	65.4	64.6	5.05	4.25 to 5.75	96.0	70.0 to 130	1.23	20.0
BB18298	Iron, Dissolved	mg/L	3.680E-05	0.0176	0.2	0.338	0.342	0.204	0.170 to 0.230	98.5	70.0 to 130	1.18	20.0
BB18295	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.127	0.127	0.0988	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BB18295	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.113	0.113	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 10:40

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BB18291

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18293	Fluoride	mg/L	-0.00201	0.100	2.50	2.84	0.0716	2.63	2.25 to 2.75	111	80.0 to 120	9.20	20.0
BB18297	Solids, Dissolved	mg/L	0.0000	25.0			413	51.0	40.0 to 60.0			0.242	5.00
BB18293	Sulfate	mg/L	-0.0313	1.00	200	346	132	19.1	18.0 to 22.0	106	80.0 to 120	0.755	20.0
BB18293	Chloride	mg/L	0.0475	1.00	10.0	27.7	18.3	10.0	9.00 to 11.0	94.0	80.0 to 120	0.00	20.0
BB18298	Alkalinity, Total as CaCO3	mg/L					99.5	51.3	45.0 to 55.0			3.06	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP
Collected: 9/28/21 11:55
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18292

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 11:38		1.015	1.42	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 14:13		10.15	65.3	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 11:38		1.015	0.128	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 11:38		1.015	0.126	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 11:38		1.015	8.66	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 11:38		1.015	23.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 14:20		1.015	0.0796	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 12:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 12:41		1.015	0.00593	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 12:41		1.015	0.0510	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 12:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 12:41		1.015	0.000315	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 12:41		1.015	0.000946	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 12:41		1.015	0.538	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 12:41		1.015	13.6	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 12:41		1.015	0.481	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 12:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 13:18		1.015	0.540	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 20:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/7/21 10:42	10/7/21 11:11		1	28.5	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	354	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP
Collected: 9/28/21 11:55
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18292

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	28.2	mg/L			
Carbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	0.23	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 15:00	9/30/21 15:00		2	28.9	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:53	10/1/21 10:53		1	0.125	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:25	10/6/21 13:25		10	188	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/28/21 11:52	9/28/21 11:52			542.86	uS/cm			FA
pH	9/28/21 11:52	9/28/21 11:52			8.20	SU			FA
Temperature	9/28/21 11:52	9/28/21 11:52			21.09	C			FA
Turbidity	9/28/21 11:52	9/28/21 11:52			2.7	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 11:55

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BB18292

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB18295	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.103	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18295	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0970	0.0957	0.0980	0.0850 to 0.115	97.0	70.0 to 130	1.35	20.0
BB18295	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB18295	Calcium, Total	mg/L	0.000147	0.152	5.00	35.5	35.5	5.05	4.25 to 5.75	106	70.0 to 130	0.00	20.0
BB18295	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00392	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18295	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.134	0.130	0.102	0.0850 to 0.115	106	70.0 to 130	3.03	20.0
BB18295	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0956	0.0959	0.0985	0.0850 to 0.115	95.6	70.0 to 130	0.313	20.0
BB18298	Manganese, Dissolved	mg/L	0.0000019	0.000147	0.100	0.177	0.177	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18295	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	26.4	26.9	5.15	4.25 to 5.75	100	70.0 to 130	1.88	20.0
BB18295	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.106	0.102	0.102	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BB18295	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.111	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB18295	Boron, Total	mg/L	0.000956	0.0650	1.00	1.19	1.19	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB18295	Potassium, Total	mg/L	0.00187	0.367	10.0	11.6	11.6	9.76	8.50 to 11.5	95.1	70.0 to 130	0.00	20.0
BB18295	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BB18295	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.103	0.0953	0.0970	0.0850 to 0.115	103	70.0 to 130	7.77	20.0
BB18295	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	65.4	64.6	5.05	4.25 to 5.75	96.0	70.0 to 130	1.23	20.0
BB18295	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.225	0.227	0.207	0.170 to 0.230	98.8	70.0 to 130	0.885	20.0
BB18295	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB18295	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.222	0.222	0.199	0.170 to 0.230	111	70.0 to 130	0.00	20.0
BB18298	Iron, Dissolved	mg/L	3.680E-05	0.0176	0.2	0.338	0.342	0.204	0.170 to 0.230	98.5	70.0 to 130	1.18	20.0
BB18295	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.127	0.127	0.0988	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BB18295	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.113	0.113	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 11:55

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BB18292

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB18297	Solids, Dissolved	mg/L	0.0000	25.0			413	51.0	40.0 to 60.0			0.242	5.00
BB18293	Sulfate	mg/L	-0.0313	1.00	200	346	132	19.1	18.0 to 22.0	106	80.0 to 120	0.755	20.0
BB18293	Fluoride	mg/L	-0.00201	0.100	2.50	2.84	0.0716	2.63	2.25 to 2.75	111	80.0 to 120	9.20	20.0
BB18293	Chloride	mg/L	0.0475	1.00	10.0	27.7	18.3	10.0	9.00 to 11.0	94.0	80.0 to 120	0.00	20.0
BB18298	Alkalinity, Total as CaCO3	mg/L					99.5	51.3	45.0 to 55.0			3.06	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP
Collected: 9/28/21 13:05
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18293

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 11:42		1.015	0.788	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 11:42		1.015	39.7	mg/L	0.070035	0.406	
* Iron, Total	10/4/21 10:00	10/7/21 11:42		1.015	0.0372	mg/L	0.008120	0.0406	J
* Lithium, Total	10/4/21 10:00	10/7/21 11:42		1.015	0.142	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 11:42		1.015	16.9	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 11:42		1.015	20.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 14:23		1.015	0.0300	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 12:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 12:44		1.015	0.00280	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 12:44		1.015	0.0345	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 12:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 12:44		1.015	0.000319	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 12:44		1.015	0.000192	mg/L	0.000068	0.000203	J
* Lead, Total	10/4/21 15:05	10/5/21 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 12:44		1.015	0.491	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 12:44		1.015	10.3	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 12:44		1.015	0.0119	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 12:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 12:44		1.015	0.000116	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 13:21		1.015	0.0122	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 20:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/7/21 10:42	10/7/21 11:11		1	57.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	269	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP

Collected: 9/28/21 13:05

Customer ID:

Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18293

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	56.0	mg/L			
Carbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	0.96	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 15:01	9/30/21 15:01		1	18.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 10:54	10/1/21 10:54		1	0.0653	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:26	10/6/21 13:26		10	133	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/28/21 13:01	9/28/21 13:01			448.50	uS/cm			FA
pH	9/28/21 13:01	9/28/21 13:01			8.38	SU			FA
Temperature	9/28/21 13:01	9/28/21 13:01			21.44	C			FA
Turbidity	9/28/21 13:01	9/28/21 13:01			1.77	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 13:05

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BB18293

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18295	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00392	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18295	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.225	0.227	0.207	0.170 to 0.230	98.8	70.0 to 130	0.885	20.0
BB18295	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB18295	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.222	0.222	0.199	0.170 to 0.230	111	70.0 to 130	0.00	20.0
BB18298	Iron, Dissolved	mg/L	3.680E-05	0.0176	0.2	0.338	0.342	0.204	0.170 to 0.230	98.5	70.0 to 130	1.18	20.0
BB18295	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.127	0.127	0.0988	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BB18295	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.113	0.113	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BB18295	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.134	0.130	0.102	0.0850 to 0.115	106	70.0 to 130	3.03	20.0
BB18295	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0956	0.0959	0.0985	0.0850 to 0.115	95.6	70.0 to 130	0.313	20.0
BB18295	Potassium, Total	mg/L	0.00187	0.367	10.0	11.6	11.6	9.76	8.50 to 11.5	95.1	70.0 to 130	0.00	20.0
BB18295	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BB18295	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.103	0.0953	0.0970	0.0850 to 0.115	103	70.0 to 130	7.77	20.0
BB18295	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	65.4	64.6	5.05	4.25 to 5.75	96.0	70.0 to 130	1.23	20.0
BB18298	Manganese, Dissolved	mg/L	0.0000019	0.000147	0.100	0.177	0.177	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18295	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	26.4	26.9	5.15	4.25 to 5.75	100	70.0 to 130	1.88	20.0
BB18295	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.106	0.102	0.102	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BB18295	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.111	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB18295	Boron, Total	mg/L	0.000956	0.0650	1.00	1.19	1.19	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB18295	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.103	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18295	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0970	0.0957	0.0980	0.0850 to 0.115	97.0	70.0 to 130	1.35	20.0
BB18295	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB18295	Calcium, Total	mg/L	0.000147	0.152	5.00	35.5	35.5	5.05	4.25 to 5.75	106	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/28/21 13:05
Customer ID:
Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BB18293

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18293	Fluoride	mg/L	-0.00201	0.100	2.50	2.84	0.0716	2.63	2.25 to 2.75	111	80.0 to 120	9.20	20.0
BB18293	Chloride	mg/L	0.0475	1.00	10.0	27.7	18.3	10.0	9.00 to 11.0	94.0	80.0 to 120	0.00	20.0
BB18298	Alkalinity, Total as CaCO3	mg/L					99.5	51.3	45.0 to 55.0			3.06	10.0
BB18297	Solids, Dissolved	mg/L	0.0000	25.0			413	51.0	40.0 to 60.0			0.242	5.00
BB18293	Sulfate	mg/L	-0.0313	1.00	200	346	132	19.1	18.0 to 22.0	106	80.0 to 120	0.755	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP
Collected: 9/28/21 15:00
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18294

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 11:45		1.015	1.16	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 14:16		10.15	46.9	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 11:45		1.015	0.0435	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 11:45		1.015	0.302	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 11:45		1.015	18.4	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 11:45		1.015	28.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 14:27		1.015	0.0289	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 12:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 12:48		1.015	0.00222	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 12:48		1.015	0.0597	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 12:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 12:48		1.015	0.000153	mg/L	0.000068	0.000203	J
* Chromium, Total	10/4/21 15:05	10/5/21 12:48		1.015	0.000332	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 12:48		1.015	1.01	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 12:48		1.015	14.6	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 12:48		1.015	0.00252	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 12:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 13:25		1.015	0.00278	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 20:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/7/21 10:42	10/7/21 11:11		1	56.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	340	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP
Collected: 9/28/21 15:00
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18294

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	55.3	mg/L			
Carbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	1.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 15:30	9/30/21 15:30		2	26.8	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 11:06	10/1/21 11:06		1	0.0614	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:55	10/6/21 13:55		10	172	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/28/21 14:58	9/28/21 14:58			538.89	uS/cm			FA
pH	9/28/21 14:58	9/28/21 14:58			8.58	SU			FA
Temperature	9/28/21 14:58	9/28/21 14:58			23.82	C			FA
Turbidity	9/28/21 14:58	9/28/21 14:58			0.66	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/28/21 15:00

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BB18294

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18295	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00392	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18295	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.134	0.130	0.102	0.0850 to 0.115	106	70.0 to 130	3.03	20.0
BB18295	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0956	0.0959	0.0985	0.0850 to 0.115	95.6	70.0 to 130	0.313	20.0
BB18295	Potassium, Total	mg/L	0.00187	0.367	10.0	11.6	11.6	9.76	8.50 to 11.5	95.1	70.0 to 130	0.00	20.0
BB18295	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BB18295	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.103	0.0953	0.0970	0.0850 to 0.115	103	70.0 to 130	7.77	20.0
BB18295	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	65.4	64.6	5.05	4.25 to 5.75	96.0	70.0 to 130	1.23	20.0
BB18298	Iron, Dissolved	mg/L	3.680E-05	0.0176	0.2	0.338	0.342	0.204	0.170 to 0.230	98.5	70.0 to 130	1.18	20.0
BB18295	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.127	0.127	0.0988	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BB18295	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.113	0.113	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BB18298	Manganese, Dissolved	mg/L	0.0000019	0.000147	0.100	0.177	0.177	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18295	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	26.4	26.9	5.15	4.25 to 5.75	100	70.0 to 130	1.88	20.0
BB18295	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.106	0.102	0.102	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BB18295	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.111	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB18295	Boron, Total	mg/L	0.000956	0.0650	1.00	1.19	1.19	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB18295	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.225	0.227	0.207	0.170 to 0.230	98.8	70.0 to 130	0.885	20.0
BB18295	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB18295	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.222	0.222	0.199	0.170 to 0.230	111	70.0 to 130	0.00	20.0
BB18295	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.103	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18295	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0970	0.0957	0.0980	0.0850 to 0.115	97.0	70.0 to 130	1.35	20.0
BB18295	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB18295	Calcium, Total	mg/L	0.000147	0.152	5.00	35.5	35.5	5.05	4.25 to 5.75	106	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/28/21 15:00
Customer ID:
Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BB18294

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18297	Solids, Dissolved	mg/L	0.0000	25.0			413	51.0	40.0 to 60.0			0.242	5.00
BB18298	Chloride	mg/L	-0.0062	1.00	40.0	61.0	19.8	10.0	9.00 to 11.0	103	80.0 to 120	0.506	20.0
BB18298	Sulfate	mg/L	0.0512	1.00	800	1290	499	19.0	18.0 to 22.0	99.2	80.0 to 120	0.603	20.0
BB18298	Alkalinity, Total as CaCO3	mg/L					99.5	51.3	45.0 to 55.0			3.06	10.0
BB18298	Fluoride	mg/L	-0.000528	0.100	2.50	2.94	0.132	2.64	2.25 to 2.75	112	80.0 to 120	2.99	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP
Collected: 9/29/21 10:45
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18295

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 11:48		1.015	0.155	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 11:48		1.015	30.2	mg/L	0.070035	0.406	
* Iron, Total	10/4/21 10:00	10/7/21 11:48		1.015	0.0274	mg/L	0.008120	0.0406	J
* Lithium, Total	10/4/21 10:00	10/7/21 11:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 11:48		1.015	21.4	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 14:19		10.15	60.6	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 14:30		1.015	0.0139	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 12:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 12:51		1.015	0.00475	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 12:51		1.015	0.0281	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 12:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 12:51		1.015	0.000257	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 12:51		1.015	0.0129	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 12:51		1.015	2.09	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 12:51		1.015	0.0301	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 12:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 13:28		1.015	0.0313	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 20:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/7/21 10:42	10/7/21 11:11		1	276	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	309	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP
Collected: 9/29/21 10:45
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18295

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	272	mg/L			
Carbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	3.87	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 15:31	9/30/21 15:31		3	29.9	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 11:07	10/1/21 11:07		1	0.656	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:56	10/6/21 13:56		1	13.7	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/29/21 10:43	9/29/21 10:43			523.45	uS/cm			FA
pH	9/29/21 10:43	9/29/21 10:43			8.47	SU			FA
Temperature	9/29/21 10:43	9/29/21 10:43			23.56	C			FA
Turbidity	9/29/21 10:43	9/29/21 10:43			0.7	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/29/21 10:45
Customer ID:
Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BB18295

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB18295	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00392	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18298	Manganese, Dissolved	mg/L	0.0000019	0.000147	0.100	0.177	0.177	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18295	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	26.4	26.9	5.15	4.25 to 5.75	100	70.0 to 130	1.88	20.0
BB18295	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.106	0.102	0.102	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BB18295	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.111	0.110	0.103	0.0850 to 0.115	106	70.0 to 130	0.905	20.0
BB18295	Boron, Total	mg/L	0.000956	0.0650	1.00	1.19	1.19	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BB18298	Iron, Dissolved	mg/L	3.680E-05	0.0176	0.2	0.338	0.342	0.204	0.170 to 0.230	98.5	70.0 to 130	1.18	20.0
BB18295	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.127	0.127	0.0988	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BB18295	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.113	0.113	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BB18295	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.225	0.227	0.207	0.170 to 0.230	98.8	70.0 to 130	0.885	20.0
BB18295	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB18295	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.222	0.222	0.199	0.170 to 0.230	111	70.0 to 130	0.00	20.0
BB18295	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.134	0.130	0.102	0.0850 to 0.115	106	70.0 to 130	3.03	20.0
BB18295	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0956	0.0959	0.0985	0.0850 to 0.115	95.6	70.0 to 130	0.313	20.0
BB18295	Potassium, Total	mg/L	0.00187	0.367	10.0	11.6	11.6	9.76	8.50 to 11.5	95.1	70.0 to 130	0.00	20.0
BB18295	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BB18295	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.103	0.0953	0.0970	0.0850 to 0.115	103	70.0 to 130	7.77	20.0
BB18295	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	65.4	64.6	5.05	4.25 to 5.75	96.0	70.0 to 130	1.23	20.0
BB18295	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.103	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB18295	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0970	0.0957	0.0980	0.0850 to 0.115	97.0	70.0 to 130	1.35	20.0
BB18295	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB18295	Calcium, Total	mg/L	0.000147	0.152	5.00	35.5	35.5	5.05	4.25 to 5.75	106	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/29/21 10:45

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BB18295

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18297	Solids, Dissolved	mg/L	0.0000	25.0			413	51.0	40.0 to 60.0			0.242	5.00
BB18298	Fluoride	mg/L	-0.000528	0.100	2.50	2.94	0.132	2.64	2.25 to 2.75	112	80.0 to 120	2.99	20.0
BB18298	Alkalinity, Total as CaCO3	mg/L					99.5	51.3	45.0 to 55.0			3.06	10.0
BB18298	Chloride	mg/L	-0.0062	1.00	40.0	61.0	19.8	10.0	9.00 to 11.0	103	80.0 to 120	0.506	20.0
BB18298	Sulfate	mg/L	0.0512	1.00	800	1290	499	19.0	18.0 to 22.0	99.2	80.0 to 120	0.603	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-5

Location Code: WMWGASAPFB

Collected: 9/29/21 11:05

Customer ID:

Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18296

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	10/4/21 10:00	10/7/21 12:05		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/4/21 10:00	10/7/21 12:05		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	10/4/21 10:00	10/7/21 12:05		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/4/21 10:00	10/7/21 12:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/4/21 10:00	10/7/21 12:05		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Sodium, Total	10/4/21 10:00	10/7/21 12:05		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/4/21 15:05	10/5/21 13:13		1.015	0.000276	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/4/21 15:05	10/5/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 20:49		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	Not Detected	mg/L		25	U	
Analytical Method: SM4500CI E		Analyst: JCC								
* Chloride	9/30/21 15:32	9/30/21 15:32		1	Not Detected	mg/L	0.50	1	U	
Analytical Method: SM4500F G 2017		Analyst: JCC								
* Fluoride	10/1/21 11:09	10/1/21 11:09		1	Not Detected	mg/L	0.06	0.1	U	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC								
* Sulfate	10/6/21 14:02	10/6/21 14:02		1	Not Detected	mg/L	0.50	1	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 9/29/21 11:05

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BB18296

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB18298	Cobalt, Total	mg/L	-0.000536	0.000147	0.100	0.0964	0.0972	0.0985	0.0850 to 0.115	96.4	70.0 to 130	0.826	20.0
BB18298	Arsenic, Total	mg/L	0.000088	0.000147	0.100	0.107	0.108	0.103	0.0850 to 0.115	105	70.0 to 130	0.930	20.0
BB18298	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB18298	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.306	0.305	0.100	0.0850 to 0.115	97.0	70.0 to 130	0.327	20.0
BB18298	Potassium, Total	mg/L	0.00187	0.367	10.0	10.5	10.6	9.76	8.50 to 11.5	97.5	70.0 to 130	0.948	20.0
BB18298	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.102	0.103	0.0980	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18298	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.387	0.388	0.207	0.170 to 0.230	99.0	70.0 to 130	0.258	20.0
BB18298	Calcium, Total	mg/L	0.000147	0.152	5.00	122	124	5.05	4.25 to 5.75	80.0	70.0 to 130	1.63	20.0
BB18298	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB18298	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.0915	0.0952	0.0970	0.0850 to 0.115	91.5	70.0 to 130	3.96	20.0
BB18298	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	65.1	66.3	5.15	4.25 to 5.75	102	70.0 to 130	1.83	20.0
BB18298	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	36.5	36.4	5.05	4.25 to 5.75	110	70.0 to 130	0.274	20.0
BB18298	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.269	0.269	0.199	0.170 to 0.230	116	70.0 to 130	0.00	20.0
BB18298	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.183	0.184	0.0988	0.0850 to 0.115	98.6	70.0 to 130	0.545	20.0
BB18298	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18298	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.106	0.107	0.103	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BB18298	Boron, Total	mg/L	0.000956	0.0650	1.00	3.81	3.83	1.03	0.850 to 1.15	100	70.0 to 130	0.524	20.0
BB18298	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0937	0.0949	0.0980	0.0850 to 0.115	93.7	70.0 to 130	1.27	20.0
BB18298	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18298	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.142	0.146	0.102	0.0850 to 0.115	101	70.0 to 130	2.78	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 9/29/21 11:05

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BB18296

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18298	Fluoride	mg/L	-0.000528	0.100	2.50	2.94	0.132	2.64	2.25 to 2.75	112	80.0 to 120	2.99	20.0
BB18297	Solids, Dissolved	mg/L	0.0000	25.0			413	51.0	40.0 to 60.0			0.242	5.00
BB18298	Sulfate	mg/L	0.0512	1.00	800	1290	499	19.0	18.0 to 22.0	99.2	80.0 to 120	0.603	20.0
BB18298	Chloride	mg/L	-0.0062	1.00	40.0	61.0	19.8	10.0	9.00 to 11.0	103	80.0 to 120	0.506	20.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 9/29/21 12:02
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18297

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 12:09		1.015	0.0481	mg/L	0.030000	0.1015	J
* Calcium, Total	10/4/21 10:00	10/7/21 14:36		10.15	78.8	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 12:09		1.015	0.897	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 12:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/4/21 10:00	10/7/21 12:09		1.015	39.9	mg/L	0.021315	0.406	
* Sodium, Total	10/4/21 10:00	10/7/21 12:09		1.015	30.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 14:34		1.015	0.800	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 15:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 15:22		1.015	0.00696	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 15:22		1.015	0.0813	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 15:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 15:22		1.015	0.000384	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 15:22		1.015	0.00112	mg/L	0.000068	0.000203	
* Lead, Total	10/4/21 15:05	10/5/21 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 15:22		1.015	0.00213	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 15:22		1.015	0.741	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 15:22		1.015	0.214	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 15:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 13:32		1.015	0.223	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 20:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/7/21 10:42	10/7/21 11:11		1	370	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/30/21 12:54	10/1/21 13:07		1	415	mg/L		25	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 9/29/21 12:02
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18297

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	369	mg/L			
Carbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	0.68	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 15:33	9/30/21 15:33		3	31.9	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 11:10	10/1/21 11:10		1	0.190	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:57	10/6/21 13:57		1	28.7	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/29/21 12:01	9/29/21 12:01			736.42	uS/cm			FA
pH	9/29/21 12:01	9/29/21 12:01			7.73	SU			FA
Temperature	9/29/21 12:01	9/29/21 12:01			21.01	C			FA
Turbidity	9/29/21 12:01	9/29/21 12:01			0.71	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/29/21 12:02
Customer ID:
Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BB18297

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB18298	Calcium, Total	mg/L	0.000147	0.152	5.00	122	124	5.05	4.25 to 5.75	80.0	70.0 to 130	1.63	20.0
BB18298	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB18298	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.0915	0.0952	0.0970	0.0850 to 0.115	91.5	70.0 to 130	3.96	20.0
BB18298	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	65.1	66.3	5.15	4.25 to 5.75	102	70.0 to 130	1.83	20.0
BB18298	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	36.5	36.4	5.05	4.25 to 5.75	110	70.0 to 130	0.274	20.0
BB18298	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.269	0.269	0.199	0.170 to 0.230	116	70.0 to 130	0.00	20.0
BB18298	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0964	0.0972	0.0985	0.0850 to 0.115	96.4	70.0 to 130	0.826	20.0
BB18298	Potassium, Total	mg/L	0.00187	0.367	10.0	10.5	10.6	9.76	8.50 to 11.5	97.5	70.0 to 130	0.948	20.0
BB18298	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.102	0.103	0.0980	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18298	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.387	0.388	0.207	0.170 to 0.230	99.0	70.0 to 130	0.258	20.0
BB18298	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18298	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.142	0.146	0.102	0.0850 to 0.115	101	70.0 to 130	2.78	20.0
BB18298	Manganese, Dissolved	mg/L	0.0000019	0.000147	0.100	0.177	0.177	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18298	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.107	0.108	0.103	0.0850 to 0.115	105	70.0 to 130	0.930	20.0
BB18298	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB18298	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.306	0.305	0.100	0.0850 to 0.115	97.0	70.0 to 130	0.327	20.0
BB18298	Iron, Dissolved	mg/L	3.680E-05	0.0176	0.2	0.338	0.342	0.204	0.170 to 0.230	98.5	70.0 to 130	1.18	20.0
BB18298	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.183	0.184	0.0988	0.0850 to 0.115	98.6	70.0 to 130	0.545	20.0
BB18298	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18298	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.106	0.107	0.103	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BB18298	Boron, Total	mg/L	0.000956	0.0650	1.00	3.81	3.83	1.03	0.850 to 1.15	100	70.0 to 130	0.524	20.0
BB18298	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0937	0.0949	0.0980	0.0850 to 0.115	93.7	70.0 to 130	1.27	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/29/21 12:02

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BB18297

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18298	Fluoride	mg/L	-0.000528	0.100	2.50	2.94	0.132	2.64	2.25 to 2.75	112	80.0 to 120	2.99	20.0
BB18298	Chloride	mg/L	-0.0062	1.00	40.0	61.0	19.8	10.0	9.00 to 11.0	103	80.0 to 120	0.506	20.0
BB18297	Solids, Dissolved	mg/L	0.0000	25.0			413	51.0	40.0 to 60.0			0.242	5.00
BB18298	Alkalinity, Total as CaCO3	mg/L					99.5	51.3	45.0 to 55.0			3.06	10.0
BB18298	Sulfate	mg/L	0.0512	1.00	800	1290	499	19.0	18.0 to 22.0	99.2	80.0 to 120	0.603	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 9/29/21 13:28
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18298

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	10/4/21 10:00	10/7/21 12:12		1.015	2.81	mg/L	0.030000	0.1015	
* Calcium, Total	10/4/21 10:00	10/7/21 14:40		10.15	118	mg/L	0.70035	4.06	
* Iron, Total	10/4/21 10:00	10/7/21 12:12		1.015	0.189	mg/L	0.008120	0.0406	
* Lithium, Total	10/4/21 10:00	10/7/21 12:12		1.015	0.0365	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/4/21 10:00	10/7/21 14:40		10.15	60.0	mg/L	0.21315	4.06	
* Sodium, Total	10/4/21 10:00	10/7/21 12:12		1.015	31.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	10/4/21 10:00	10/6/21 14:37		1.015	0.141	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/4/21 15:05	10/5/21 15:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	10/4/21 15:05	10/5/21 15:25		1.015	0.00231	mg/L	0.000068	0.000203	
* Barium, Total	10/4/21 15:05	10/5/21 15:25		1.015	0.0410	mg/L	0.000102	0.000203	
* Beryllium, Total	10/4/21 15:05	10/5/21 15:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/4/21 15:05	10/5/21 15:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/4/21 15:05	10/5/21 15:25		1.015	0.000319	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/4/21 15:05	10/5/21 15:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/4/21 15:05	10/5/21 15:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	10/4/21 15:05	10/5/21 15:25		1.015	0.209	mg/L	0.000068	0.000203	
* Potassium, Total	10/4/21 15:05	10/5/21 15:25		1.015	0.754	mg/L	0.169505	0.5075	
* Manganese, Total	10/4/21 15:05	10/5/21 15:25		1.015	0.0844	mg/L	0.000068	0.000203	
* Selenium, Total	10/4/21 15:05	10/5/21 15:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/4/21 15:05	10/5/21 15:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	10/4/21 10:17	10/4/21 13:35		1.015	0.0745	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	10/5/21 13:44	10/5/21 20:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	10/7/21 10:42	10/7/21 11:11		1	96.5	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/1/21 11:21	10/5/21 09:36		1	844	mg/L		50	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 9/29/21 13:28
Customer ID:
Submittal Date: 9/30/21 09:55

Laboratory ID Number: BB18298

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	95.3	mg/L			
Carbonate Alkalinity, (calc.)	10/7/21 10:42	10/7/21 11:11		1	1.10	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	9/30/21 15:34	9/30/21 15:34		3	19.7	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/1/21 11:11	10/1/21 11:11		1	0.136	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/6/21 13:59	10/6/21 13:59		40	496	mg/L	20.00	40	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	9/29/21 13:25	9/29/21 13:25			1059.53	uS/cm			FA
pH	9/29/21 13:25	9/29/21 13:25			8.44	SU			FA
Temperature	9/29/21 13:25	9/29/21 13:25			24.21	C			FA
Turbidity	9/29/21 13:25	9/29/21 13:25			0.87	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 9/29/21 13:28
Customer ID:
Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BB18298

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB18298	Calcium, Total	mg/L	0.000147	0.152	5.00	122	124	5.05	4.25 to 5.75	80.0	70.0 to 130	1.63	20.0
BB18298	Thallium, Total	mg/L	-0.0000726	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB18298	Beryllium, Total	mg/L	0.0000211	0.000880	0.100	0.0915	0.0952	0.0970	0.0850 to 0.115	91.5	70.0 to 130	3.96	20.0
BB18298	Cobalt, Total	mg/L	-0.0000536	0.000147	0.100	0.0964	0.0972	0.0985	0.0850 to 0.115	96.4	70.0 to 130	0.826	20.0
BB18298	Magnesium, Total	mg/L	5.390E-05	0.0462	5.00	65.1	66.3	5.15	4.25 to 5.75	102	70.0 to 130	1.83	20.0
BB18298	Sodium, Total	mg/L	-6.220E-05	0.0660	5.00	36.5	36.4	5.05	4.25 to 5.75	110	70.0 to 130	0.274	20.0
BB18298	Lithium, Total	mg/L	-0.000103	0.0154	0.200	0.269	0.269	0.199	0.170 to 0.230	116	70.0 to 130	0.00	20.0
BB18298	Lead, Total	mg/L	0.0000035	0.000147	0.100	0.106	0.107	0.103	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BB18298	Boron, Total	mg/L	0.000956	0.0650	1.00	3.81	3.83	1.03	0.850 to 1.15	100	70.0 to 130	0.524	20.0
BB18298	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.0937	0.0949	0.0980	0.0850 to 0.115	93.7	70.0 to 130	1.27	20.0
BB18298	Chromium, Total	mg/L	-0.0000018	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB18298	Barium, Total	mg/L	-0.0000369	0.000200	0.100	0.142	0.146	0.102	0.0850 to 0.115	101	70.0 to 130	2.78	20.0
BB18298	Manganese, Dissolved	mg/L	0.0000019	0.000147	0.100	0.177	0.177	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB18298	Arsenic, Total	mg/L	0.0000088	0.000147	0.100	0.107	0.108	0.103	0.0850 to 0.115	105	70.0 to 130	0.930	20.0
BB18298	Selenium, Total	mg/L	0.0000259	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB18298	Molybdenum, Total	mg/L	0.0000437	0.000147	0.100	0.306	0.305	0.100	0.0850 to 0.115	97.0	70.0 to 130	0.327	20.0
BB18298	Iron, Dissolved	mg/L	3.680E-05	0.0176	0.2	0.338	0.342	0.204	0.170 to 0.230	98.5	70.0 to 130	1.18	20.0
BB18298	Manganese, Total	mg/L	0.0000031	0.000147	0.100	0.183	0.184	0.0988	0.0850 to 0.115	98.6	70.0 to 130	0.545	20.0
BB18298	Mercury, Total by CVAA	mg/L	3.000E-05	0.000500	0.004	0.00393	0.00395	0.00393	0.00340 to 0.00460	98.2	70.0 to 130	0.508	20.0
BB18298	Potassium, Total	mg/L	0.00187	0.367	10.0	10.5	10.6	9.76	8.50 to 11.5	97.5	70.0 to 130	0.948	20.0
BB18298	Antimony, Total	mg/L	0.000103	0.00100	0.100	0.102	0.103	0.0980	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BB18298	Iron, Total	mg/L	2.820E-05	0.0176	0.2	0.387	0.388	0.207	0.170 to 0.230	99.0	70.0 to 130	0.258	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 9/29/21 13:28

Customer ID:

Delivery Date: 9/30/21 09:55

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BB18298

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB18298	Solids, Dissolved	mg/L	2.00	25.0			852	54.0	40.0 to 60.0			0.472	5.00
BB18298	Fluoride	mg/L	-0.000528	0.100	2.50	2.94	0.132	2.64	2.25 to 2.75	112	80.0 to 120	2.99	20.0
BB18298	Alkalinity, Total as CaCO3	mg/L					99.5	51.3	45.0 to 55.0			3.06	10.0
BB18298	Sulfate	mg/L	0.0512	1.00	800	1290	499	19.0	18.0 to 22.0	99.2	80.0 to 120	0.603	20.0
BB18298	Chloride	mg/L	-0.0062	1.00	40.0	61.0	19.8	10.0	9.00 to 11.0	103	80.0 to 120	0.506	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Definitions

Project Number: WMWGASAP_1339

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jodi Webb	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	09/21/2021	10:05	6	Groundwater		BB17697
MW-10	09/21/2021	11:45	6	Groundwater		BB17698
MW-11	09/21/2021	13:20	6	Groundwater		BB17699
MW-8	09/21/2021	14:52	6	Groundwater		BB17700
MW-12	09/22/2021	09:50	6	Groundwater		BB17701
MW-13	09/22/2021	11:25	6	Groundwater		BB17702
MW-14	09/22/2021	13:05	6	Groundwater		BB17703

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	09/22/2021 14:26

SmarTroll ID	7586-41443-5-2
Turbidity ID	4677-23342-4-1
Sample Event	1339

All metals and radiological bottles have pH < 2

Cooler Temp	0.7 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Hg bottle for FB-1 was missed during transfer of samples. Will login FB-1 when all bottles are received. TDS FB-4 bottle time corrected to 16:05. LBM 9/28/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-5	09/27/2021	12:06	6	Groundwater		BB18015
MW-5 Dup	09/27/2021	12:06	6	Sample Duplicate		BB18016
FB-1	09/27/2021	12:30	4	Field Blank		-
MW-22	09/27/2021	13:13	6	Groundwater		BB18017
MW-22 Dup	09/27/2021	13:13	6	Sample Duplicate		BB18018
MW-21	09/27/2021	14:31	6	Groundwater		BB18019
MW-6	09/27/2021	15:15	6	Groundwater		BB18020
MW-7	09/27/2021	16:00	6	Groundwater		BB18021
FB-4	09/27/2021	16:05	4	Field Blank		BB18022

Relinquished By	Received By	Date/Time
		09/27/2021 16:50
		09/28/2021 08:16

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>		
Turbidity ID	4677-23343-4-2		Cooler Temp	0.5 degrees C
Sample Event	1339		Thermometer ID	5408-27568-2-2
			pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Relinquished by DFG to secure location GSC Building 8 shipping lab on 9/29/21 @16:30
Correcting MW-35V time to 13:34 per bottles and DFG. LBM 9/30/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
FB-3	09/28/2021	10:35	4	Field Blank		BB18279
MW-20V	09/28/2021	12:11	6	Groundwater		BB18280
MW-20SV	09/28/2021	13:35	6	Groundwater		BB18281
MW-20	09/28/2021	14:21	6	Groundwater		BB18282
MW-18	09/28/2021	15:20	6	Groundwater		BB18283
MW-17	09/29/2021	09:06	6	Groundwater		BB18284
MW-17SV	09/29/2021	09:51	6	Groundwater		BB18285
MW-17V	09/29/2021	11:12	6	Groundwater		BB18286
MW-35V	09/29/2021	13:34	6	Groundwater		BB18287
EB-1	09/29/2021	14:45	4	Equipment Blank		BB18288

Relinquished By	Received By	Date/Time
	Laura Midkiff <small>Digitally signed by Laura Midkiff DN: cn=Laura Midkiff, ou=Alabama Power Company, ou=Environmental Affairs, email=lmidkiff@southernco.com, c=US Date: 2021.09.30 08:37:18 -05'00'</small>	09/30/2021 08:37

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1339	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8440-53677-10-3	



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
FB-1	09/27/2021	12:30	4	Field Blank		BB18289
MW-15R	09/28/2021	08:50	6	Groundwater		BB18290
MW-16V	09/28/2021	10:40	6	Groundwater		BB18291
MW-16	09/28/2021	11:55	6	Groundwater		BB18292
MW-28H	09/28/2021	13:05	6	Groundwater		BB18293
MW-29H	09/28/2021	15:00	6	Groundwater		BB18294
MW-31VR	09/29/2021	10:45	6	Groundwater		BB18295
FB-5	09/29/2021	11:05	4	Field Blank		BB18296
MW-30H	09/29/2021	12:02	6	Groundwater		BB18297
MW-34V	09/29/2021	13:28	6	Groundwater		BB18298

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Amanda M. Dyer</i>	09/30/2021 08:10

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1339	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8440-53677-10-3 & 8440-53679-10-5	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By
		Location	Gaston Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: MS/MSD collected on MW-26

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-23D	09/21/2021	10:33	1	Groundwater		BB17713
MW-23D Dup	09/21/2021	10:33	1	Sample Duplicate		BB17714
MW-23S	09/21/2021	12:05	1	Groundwater		BB17715
MW-27	09/21/2021	13:00	1	Groundwater		BB17716
MW-26	09/22/2021	09:30	3	Groundwater		BB17717
MW-19	09/22/2021	11:43	1	Groundwater		BB17718

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Laura M. Dyer</i>	09/22/2021 13:37

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1339	Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date Site Representative Collector	Routine		Results To Requested By Location	Dustin Brooks, Greg Dyer	
	Jodi Webb			Greg Dyer	
	Dallas Gentry			Gaston Ash Pond	

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-38	09/21/2021	08:35	1	Groundwater		BB17704
MW-41	09/21/2021	09:32	1	Groundwater		BB17705
MW-41 dup	09/21/2021	09:32	1	Sample Duplicate		BB17706
MW-39	09/21/2021	10:58	1	Groundwater		BB17707
MW-39 dup	09/21/2021	10:58	1	Sample Duplicate		BB17708
MW-40	09/21/2021	12:17	1	Groundwater		BB17709
MW-42	09/21/2021	14:18	1	Groundwater		BB17710
MW-36V	09/22/2021	09:56	1	Groundwater		BB17711
MW-33V	09/22/2021	11:21	1	Groundwater		BB17712

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura Wiley</i>	09/22/2021 13:32

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1339	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	8440-53677-10-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By
			Location

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Hg bottle for FB-1 was missed during transfer of samples. Will login FB-1 when all bottles are received. LBM 9/28/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-5	09/27/2021	12:06	1	Groundwater		BB18028
MW-5 Dup	09/27/2021	12:06	1	Sample Duplicate		BB18029
FB-1	09/27/2021	12:30	1	Field Blank		-
MW-22	09/27/2021	13:13	1	Groundwater		BB18030
MW-22 Dup	09/27/2021	13:13	1	Sample Duplicate		BB18031
MW-21	09/27/2021	14:31	1	Groundwater		BB18032
MW-6	09/27/2021	15:15	1	Groundwater		BB18033
MW-7	09/27/2021	16:00	1	Groundwater		BB18034
FB-4	09/27/2021	16:05	1	Field Blank		BB18035

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	09/27/2021 16:50
<i>[Signature]</i>	<i>[Signature]</i>	09/28/2021 08:16

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>		
Turbidity ID	4677-23343-4-2		Cooler Temp	N/A
Sample Event	1339		Thermometer ID	N/A
			pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By
		Location	Gaston Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium MS/MSD collected at MW-4

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-4	09/27/2021	11:31	3	Groundwater		BB18023
MW-3	09/27/2021	13:16	1	Groundwater		BB18024
MW-32V	09/27/2021	14:45	1	Groundwater		BB18025
MW-37V	09/27/2021	15:58	1	Groundwater		BB18026
FB-2	09/27/2021	16:35	1	Field Blank		BB18027

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Laura M. Kelly</i>	09/28/2021 08:15

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
Sample Event	1339	Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Gaston Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Relinquished by DFG to secure location GSC Building 8 shipping lab on 9/29/21 @16:30
Correcting MW-35V time to 13:34 per bottles and DFG. LBM 9/30/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
FB-3	09/28/2021	10:35	1	Field Blank		BB18299
MW-20V	09/28/2021	12:11	1	Groundwater		BB18300
MW-20SV	09/28/2021	13:35	1	Groundwater		BB18301
MW-20	09/28/2021	14:21	1	Groundwater		BB18302
MW-18	09/28/2021	15:20	1	Groundwater		BB18303
MW-17	09/29/2021	09:06	1	Groundwater		BB18304
MW-17SV	09/29/2021	09:51	1	Groundwater		BB18305
MW-17V	09/29/2021	11:12	1	Groundwater		BB18306
MW-35V	09/29/2021	13:34	1	Groundwater		BB18307
EB-1	09/29/2021	14:45	1	Equipment Blank		BB18308

Relinquished By	Received By	Date/Time
	Laura Midkiff <small>Digitally signed by Laura Midkiff, DN: cn=Laura Midkiff, ou=Alabama Power Company, ou=Environmental Affairs, email=lmidkiff@southernco.com, c=US Date: 2021.09.30 08:38:47 -0500</small>	09/30/2021 08:38

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
Sample Event	1339		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By
		Location	Gaston Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
FB-1	09/27/2021	12:30	1	Field Blank		BB18309
MW-15R	09/28/2021	08:50	1	Groundwater		BB18310
MW-16V	09/28/2021	10:40	1	Groundwater		BB18311
MW-16	09/28/2021	11:55	1	Groundwater		BB18312
MW-28H	09/28/2021	13:05	1	Groundwater		BB18313
MW-29H	09/28/2021	15:00	1	Groundwater		BB18314
MW-31VR	09/29/2021	10:45	1	Groundwater		BB18315
FB-5	09/29/2021	11:05	1	Field Blank		BB18316
MW-30H	09/29/2021	12:02	1	Groundwater		BB18317
MW-34V	09/29/2021	13:28	1	Groundwater		BB18318

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Aura Miller</i>	09/30/2021 08:12

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1339		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8440-53677-10-3 & 8440-53679-10-5

Bottles/Pre-Preserved Bottles are provided by the GTL

December 08, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: GASTON ASH POND WMWGASAP_1339
Pace Project No.: 92565071

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GASTON ASH POND WMWGASAP_1339
Pace Project No.: 92565071

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92565071001	BB17704 MW-38	Water	09/21/21 08:35	10/06/21 00:00
92565071002	BB17705 MW-41	Water	09/21/21 09:32	10/06/21 00:00
92565071003	BB17706 MW-41 DUP	Water	09/21/21 09:32	10/06/21 00:00
92565071004	BB17707 MW-39	Water	09/21/21 10:58	10/06/21 00:00
92565071005	BB17708 MW-39 DUP	Water	09/21/21 10:58	10/06/21 00:00
92565071006	BB17709 MW-40	Water	09/21/21 12:17	10/06/21 00:00
92565071007	BB17710 MW-42	Water	09/21/21 14:18	10/06/21 00:00
92565071008	BB17711 MW-36V	Water	09/22/21 09:56	10/06/21 00:00
92565071009	BB17712 MW-33V	Water	09/22/21 11:21	10/06/21 00:00
92565071010	BB17713 MW-23D	Water	09/21/21 10:33	10/06/21 00:00
92565071011	BB17714 MW-23D DUP	Water	09/21/21 10:33	10/06/21 00:00
92565071012	BB17715 MW-23S	Water	09/21/21 12:05	10/06/21 00:00
92565071013	BB17716 MW-27	Water	09/21/21 13:00	10/06/21 00:00
92565071014	BB17717 MW-26	Water	09/22/21 09:30	10/06/21 00:00
92565071015	BB17717 MW-26 MS	Water	09/22/21 09:30	10/06/21 00:00
92565071016	BB17717 MW-26 MSD	Water	09/22/21 09:30	10/06/21 00:00
92565071017	BB17718 MW-19	Water	09/22/21 11:43	10/06/21 00:00
92565071018	BB17719 MW-9	Water	09/21/21 10:05	10/06/21 00:00
92565071019	BB17720 MW-10	Water	09/21/21 11:45	10/06/21 00:00
92565071020	BB17721 MW-11	Water	09/21/21 13:20	10/06/21 00:00
92565071021	BB17721 MW-11 MS	Water	09/21/21 13:20	10/06/21 00:00
92565071022	BB17721 MW-11 MSD	Water	09/21/21 13:20	10/06/21 00:00
92565071023	BB17722 MW-8	Water	09/21/21 14:52	10/06/21 00:00
92565071024	BB17723 MW-12	Water	09/22/21 09:50	10/06/21 00:00
92565071025	BB17724 MW-13	Water	09/22/21 11:25	10/06/21 00:00
92565071026	BB17725 MW-14	Water	09/22/21 13:05	10/06/21 00:00
92565071027	BB18023 MW-4	Water	09/27/21 11:31	10/06/21 00:00
92565071028	BB18023 MW-4 MS	Water	09/27/21 11:31	10/06/21 00:00
92565071029	BB18023 MW-4 MSD	Water	09/27/21 11:31	10/06/21 00:00
92565071030	BB18024 MW-3	Water	09/27/21 13:16	10/06/21 00:00
92565071031	BB18025 MW-32V	Water	09/27/21 14:45	10/06/21 00:00
92565071032	BB18026 MW-37V	Water	09/27/21 15:58	10/06/21 00:00
92565071033	BB18027 FB-2	Water	09/27/21 16:35	10/06/21 00:00
92565071034	BB18028 MW-5	Water	09/27/21 12:06	10/06/21 00:00
92565071035	BB18029 MW-5 DUP	Water	09/27/21 12:06	10/06/21 00:00
92565071036	BB18030 MW-22	Water	09/27/21 13:13	10/06/21 00:00
92565071037	BB18031 MW-22 DUP	Water	09/27/21 13:13	10/06/21 00:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92565071038	BB18032 MW-21	Water	09/27/21 14:31	10/06/21 00:00
92565071039	BB18033 MW-6	Water	09/27/21 15:15	10/06/21 00:00
92565071040	BB18034 MW-7	Water	09/27/21 16:00	10/06/21 00:00
92565071041	BB18035 FB-4	Water	09/27/21 16:05	10/06/21 00:00
92565071042	BB18299 FB-3	Water	09/28/21 10:35	10/06/21 00:00
92565071043	BB18300 MW-20V	Water	09/28/21 12:11	10/06/21 00:00
92565071044	BB18301 MW-20SV	Water	09/28/21 13:35	10/06/21 00:00
92565071045	BB18302 MW-20	Water	09/28/21 14:21	10/06/21 00:00
92565071046	BB18303 MW-18	Water	09/28/21 15:20	10/06/21 00:00
92565071047	BB18304 MW-17	Water	09/29/21 09:06	10/06/21 00:00
92565071048	BB18305 MW-17SV	Water	09/29/21 09:51	10/06/21 00:00
92565071049	BB18306 MW-17V	Water	09/29/21 11:12	10/06/21 00:00
92565071050	BB18307 MW-35V	Water	09/29/21 13:34	10/06/21 00:00
92565071051	BB18308 EB-1	Water	09/29/21 14:45	10/06/21 00:00
92565071052	BB18309 FB-1	Water	09/27/21 12:30	10/06/21 00:00
92565071053	BB18310 MW-15R	Water	09/28/21 08:50	10/06/21 00:00
92565071054	BB18311 MW-16V	Water	09/28/21 10:40	10/06/21 00:00
92565071055	BB18312 MW-16	Water	09/28/21 11:55	10/06/21 00:00
92565071056	BB18313 MW-28H	Water	09/28/21 13:05	10/06/21 00:00
92565071057	BB18314 MW-29H	Water	09/28/21 15:00	10/06/21 00:00
92565071058	BB18315 MW-31VR	Water	09/29/21 10:45	10/06/21 00:00
92565071059	BB18316 FB-5	Water	09/29/21 11:05	10/06/21 00:00
92565071060	BB18317 MW-30H	Water	09/29/21 12:02	10/06/21 00:00
92565071061	BB18318 MW-34V	Water	09/29/21 13:28	10/06/21 00:00

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SAMPLE ANALYTE COUNT

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92565071001	BB17704 MW-38	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071002	BB17705 MW-41	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071003	BB17706 MW-41 DUP	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071004	BB17707 MW-39	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071005	BB17708 MW-39 DUP	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071006	BB17709 MW-40	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071007	BB17710 MW-42	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071008	BB17711 MW-36V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071009	BB17712 MW-33V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071010	BB17713 MW-23D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071011	BB17714 MW-23D DUP	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071012	BB17715 MW-23S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071013	BB17716 MW-27	EPA 9315	JJY	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GASTON ASH POND WMWGASAP_1339
Pace Project No.: 92565071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92565071014	BB17717 MW-26	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92565071015	BB17717 MW-26 MS	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071016	BB17717 MW-26 MSD	EPA 9320	VAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071017	BB17718 MW-19	EPA 9320	VAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071018	BB17719 MW-9	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92565071019	BB17720 MW-10	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071020	BB17721 MW-11	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071021	BB17721 MW-11 MS	EPA 9320	JC2	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071022	BB17721 MW-11 MSD	EPA 9320	JC2	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071023	BB17722 MW-8	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071024	BB17723 MW-12	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92565071025	BB17724 MW-13	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071026	BB17725 MW-14	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GASTON ASH POND WMWGASAP_1339
Pace Project No.: 92565071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92565071027	BB18023 MW-4	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071028	BB18023 MW-4 MS	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92565071029	BB18023 MW-4 MSD	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92565071030	BB18024 MW-3	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071031	BB18025 MW-32V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071032	BB18026 MW-37V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071033	BB18027 FB-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071034	BB18028 MW-5	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071035	BB18029 MW-5 DUP	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071036	BB18030 MW-22	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071037	BB18031 MW-22 DUP	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071038	BB18032 MW-21	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071039	BB18033 MW-6	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GASTON ASH POND WMWGASAP_1339
Pace Project No.: 92565071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92565071040	BB18034 MW-7	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071041	BB18035 FB-4	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071042	BB18299 FB-3	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071043	BB18300 MW-20V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071044	BB18301 MW-20SV	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071045	BB18302 MW-20	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071046	BB18303 MW-18	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071047	BB18304 MW-17	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071048	BB18305 MW-17SV	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071049	BB18306 MW-17V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071050	BB18307 MW-35V	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071051	BB18308 EB-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92565071052	BB18309 FB-1	EPA 9315	JJY	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GASTON ASH POND WMWGASAP_1339
Pace Project No.: 92565071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92565071053	BB18310 MW-15R	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071054	BB18311 MW-16V	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071055	BB18312 MW-16	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071056	BB18313 MW-28H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071057	BB18314 MW-29H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071058	BB18315 MW-31VR	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071059	BB18316 FB-5	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071060	BB18317 MW-30H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92565071061	BB18318 MW-34V	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: December 08, 2021

General Information:

61 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: December 08, 2021

General Information:

61 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 468566

1g: Analyte detected in Method Blank. Samples reported based on sample activity results less than RDL of 1.0 pCi/L.

- BLANK (Lab ID: 2262518)
- Radium-228

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PROJECT NARRATIVE

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: December 08, 2021

General Information:

55 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17704 MW-38 **Lab ID: 92565071001** Collected: 09/21/21 08:35 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.107U ± 0.296 (0.712) C:81% T:NA	pCi/L	11/04/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.548 ± 0.303 (0.537) C:76% T:86%	pCi/L	10/26/21 13:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.655U ± 0.599 (1.25)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17705 MW-41 **Lab ID: 92565071002** Collected: 09/21/21 09:32 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.804 ± 0.439 (0.672) C:81% T:NA	pCi/L	11/04/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0241U ± 0.254 (0.588) C:77% T:92%	pCi/L	10/26/21 13:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.828U ± 0.693 (1.26)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17706 MW-41 DUP **Lab ID: 92565071003** Collected: 09/21/21 09:32 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.187U ± 0.297 (0.662) C:80% T:NA	pCi/L	11/04/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.472U ± 0.330 (0.639) C:80% T:82%	pCi/L	10/26/21 13:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.659U ± 0.627 (1.30)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17707 MW-39 **Lab ID: 92565071004** Collected: 09/21/21 10:58 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.518U ± 0.333 (0.545) C:94% T:NA	pCi/L	11/04/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.205U ± 0.253 (0.533) C:79% T:84%	pCi/L	10/26/21 13:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.723U ± 0.586 (1.08)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17708 MW-39 DUP **Lab ID: 92565071005** Collected: 09/21/21 10:58 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.357U ± 0.359 (0.739) C:97% T:NA	pCi/L	11/04/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.669 ± 0.334 (0.577) C:78% T:87%	pCi/L	10/26/21 13:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03U ± 0.693 (1.32)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17709 MW-40 **Lab ID: 92565071006** Collected: 09/21/21 12:17 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.428U ± 0.350 (0.665) C:94% T:NA	pCi/L	11/04/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.309U ± 0.309 (0.637) C:76% T:87%	pCi/L	10/26/21 13:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.737U ± 0.659 (1.30)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17710 MW-42 **Lab ID: 92565071007** Collected: 09/21/21 14:18 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.329U ± 0.283 (0.530) C:90% T:NA	pCi/L	11/04/21 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.162U ± 0.291 (0.637) C:75% T:83%	pCi/L	10/26/21 13:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.491U ± 0.574 (1.17)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17711 MW-36V **Lab ID: 92565071008** Collected: 09/22/21 09:56 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.34 ± 0.528 (0.680) C:82% T:NA	pCi/L	11/04/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.612 ± 0.306 (0.523) C:77% T:93%	pCi/L	10/26/21 13:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.95 ± 0.834 (1.20)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17712 MW-33V **Lab ID: 92565071009** Collected: 09/22/21 11:21 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.864 ± 0.409 (0.562) C:94% T:NA	pCi/L	11/04/21 08:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.810 ± 0.374 (0.623) C:77% T:82%	pCi/L	10/26/21 13:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.67 ± 0.783 (1.19)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17713 MW-23D **Lab ID: 92565071010** Collected: 09/21/21 10:33 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.220U ± 0.331 (0.737) C:94% T:NA	pCi/L	11/04/21 08:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.398U ± 0.373 (0.768) C:76% T:81%	pCi/L	10/26/21 13:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.618U ± 0.704 (1.51)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17714 MW-23D DUP **Lab ID: 92565071011** Collected: 09/21/21 10:33 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.187U ± 0.289 (0.642) C:95% T:NA	pCi/L	11/04/21 08:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.351U ± 0.354 (0.732) C:75% T:81%	pCi/L	10/26/21 13:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.538U ± 0.643 (1.37)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17715 MW-23S **Lab ID: 92565071012** Collected: 09/21/21 12:05 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.326U ± 0.324 (0.655) C:95% T:NA	pCi/L	11/04/21 08:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0112U ± 0.274 (0.635) C:79% T:86%	pCi/L	10/26/21 13:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.337U ± 0.598 (1.29)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17716 MW-27 **Lab ID: 92565071013** Collected: 09/21/21 13:00 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0597U ± 0.382 (0.966) C:64% T:NA	pCi/L	11/04/21 08:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0937U ± 0.278 (0.677) C:75% T:88%	pCi/L	10/26/21 13:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000U ± 0.660 (1.64)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17717 MW-26 **Lab ID: 92565071014** Collected: 09/22/21 09:30 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.447U ± 0.461 (0.971) C:90% T:NA	pCi/L	11/04/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.750 ± 0.363 (0.608) C:74% T:88%	pCi/L	10/26/21 16:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20U ± 0.824 (1.58)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17717 MW-26 MS **Lab ID: 92565071015** Collected: 09/22/21 09:30 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	106.53 %REC ± NA (NA) C:NA T:NA	pCi/L	11/04/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	89.56 %REC ± NA (NA) C:NA T:NA	pCi/L	10/26/21 16:36	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17717 MW-26 MSD **Lab ID: 92565071016** Collected: 09/22/21 09:30 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	113.93 %REC 6.72RPD ± NA (NA) C:NA T:NA	pCi/L	11/04/21 08:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	79.64 %REC 11.73 RPD ± NA (NA) C:NA T:NA	pCi/L	10/26/21 16:36	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17718 MW-19 **Lab ID: 92565071017** Collected: 09/22/21 11:43 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.122U ± 0.255 (0.594) C:90% T:NA	pCi/L	11/04/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.246U ± 0.310 (0.658) C:74% T:93%	pCi/L	10/26/21 16:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.368U ± 0.565 (1.25)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17719 MW-9 **Lab ID: 92565071018** Collected: 09/21/21 10:05 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.316U ± 0.280 (0.519) C:90% T:NA	pCi/L	11/04/21 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.737 ± 0.390 (0.697) C:74% T:88%	pCi/L	10/26/21 16:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.05U ± 0.670 (1.22)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17720 MW-10 **Lab ID: 92565071019** Collected: 09/21/21 11:45 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.267U ± 0.311 (0.647) C:81% T:NA	pCi/L	11/04/21 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.535U ± 0.365 (0.698) C:75% T:87%	pCi/L	10/26/21 16:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.802U ± 0.676 (1.35)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17721 MW-11 **Lab ID: 92565071020** Collected: 09/21/21 13:20 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0392U ± 0.170 (0.509) C:89% T:NA	pCi/L	11/04/21 09:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0771U ± 0.290 (0.657) C:74% T:85%	pCi/L	10/27/21 11:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0771U ± 0.460 (1.17)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17721 MW-11 MS **Lab ID: 92565071021** Collected: 09/21/21 13:20 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	102.16 %REC ± NA (NA) C:NA T:NA	pCi/L	11/04/21 09:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	82.46 %REC ± NA (NA) C:NA T:NA	pCi/L	10/27/21 11:10	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17721 MW-11 MSD **Lab ID: 92565071022** Collected: 09/21/21 13:20 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	101.52 %REC 0.63RPD ± NA (NA) C:NA T:NA	pCi/L	11/04/21 09:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	72.72 %REC 12.56 RPD ± NA (NA) C:NA T:NA	pCi/L	10/27/21 11:10	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17722 MW-8 **Lab ID: 92565071023** Collected: 09/21/21 14:52 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0496U ± 0.246 (0.619) C:89% T:NA	pCi/L	11/04/21 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0812U ± 0.321 (0.766) C:73% T:84%	pCi/L	10/26/21 16:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0496U ± 0.567 (1.39)	pCi/L	11/05/21 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17723 MW-12 **Lab ID: 92565071024** Collected: 09/22/21 09:50 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.607 ± 0.350 (0.512) C:90% T:NA	pCi/L	11/04/21 09:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.793 ± 0.386 (0.655) C:77% T:80%	pCi/L	10/27/21 11:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.40 ± 0.736 (1.17)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17724 MW-13 **Lab ID: 92565071025** Collected: 09/22/21 11:25 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.574 ± 0.350 (0.521) C:81% T:NA	pCi/L	11/04/21 09:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.260U ± 0.284 (0.592) C:75% T:91%	pCi/L	10/27/21 11:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.834U ± 0.634 (1.11)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB17725 MW-14 **Lab ID: 92565071026** Collected: 09/22/21 13:05 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.180U ± 0.271 (0.598) C:92% T:NA	pCi/L	11/04/21 09:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.260U ± 0.318 (0.674) C:77% T:88%	pCi/L	10/27/21 11:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.440U ± 0.589 (1.27)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18023 MW-4 **Lab ID: 92565071027** Collected: 09/27/21 11:31 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0714U ± 0.170 (0.404) C:97% T:NA	pCi/L	11/17/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.674 ± 0.365 (0.650) C:76% T:86%	pCi/L	11/02/21 10:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.745U ± 0.535 (1.05)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18023 MW-4 MS **Lab ID: 92565071028** Collected: 09/27/21 11:31 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	106.09 %REC ± NA (NA) C:NA T:NA	pCi/L	11/17/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	82.16 %REC ± NA (NA) C:NA T:NA	pCi/L	11/02/21 10:53	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18023 MW-4 MSD **Lab ID: 92565071029** Collected: 09/27/21 11:31 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	107.77 %REC 1.57 RPD ± NA (NA) C:NA T:NA	pCi/L	11/17/21 11:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	89.96 %REC 9.06 RPD ± NA (NA) C:NA T:NA	pCi/L	11/02/21 10:53	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18024 MW-3 **Lab ID: 92565071030** Collected: 09/27/21 13:16 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0325U ± 0.167 (0.507) C:87% T:NA	pCi/L	11/04/21 09:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.348U ± 0.322 (0.657) C:77% T:88%	pCi/L	10/27/21 11:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.348U ± 0.489 (1.16)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18025 MW-32V **Lab ID: 92565071031** Collected: 09/27/21 14:45 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.804 ± 0.388 (0.494) C:86% T:NA	pCi/L	11/04/21 09:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.834 ± 0.391 (0.665) C:75% T:89%	pCi/L	10/27/21 11:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.64 ± 0.779 (1.16)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18026 MW-37V **Lab ID: 92565071032** Collected: 09/27/21 15:58 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	3.58 ± 0.899 (0.554) C:84% T:NA	pCi/L	11/04/21 09:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.419U ± 0.303 (0.589) C:79% T:91%	pCi/L	10/27/21 11:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.00 ± 1.20 (1.14)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18027 FB-2 **Lab ID: 92565071033** Collected: 09/27/21 16:35 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.656 ± 0.387 (0.616) C:87% T:NA	pCi/L	11/04/21 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.400U ± 0.292 (0.562) C:73% T:86%	pCi/L	10/27/21 14:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.06U ± 0.679 (1.18)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18028 MW-5 **Lab ID: 92565071034** Collected: 09/27/21 12:06 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.900 ± 0.425 (0.563) C:86% T:NA	pCi/L	11/04/21 09:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.442U ± 0.362 (0.721) C:75% T:79%	pCi/L	10/27/21 14:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.34 ± 0.787 (1.28)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18029 MW-5 DUP **Lab ID: 92565071035** Collected: 09/27/21 12:06 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.341U ± 0.292 (0.521) C:83% T:NA	pCi/L	11/04/21 09:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.418U ± 0.354 (0.705) C:70% T:82%	pCi/L	10/27/21 14:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.759U ± 0.646 (1.23)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18030 MW-22 **Lab ID: 92565071036** Collected: 09/27/21 13:13 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.336U ± 0.329 (0.649) C:82% T:NA	pCi/L	11/04/21 08:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.556U ± 0.333 (0.620) C:80% T:90%	pCi/L	10/27/21 14:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.892U ± 0.662 (1.27)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18031 MW-22 DUP **Lab ID: 92565071037** Collected: 09/27/21 13:13 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.150U ± 0.308 (0.717) C:75% T:NA	pCi/L	11/04/21 08:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.566U ± 0.351 (0.654) C:74% T:89%	pCi/L	10/27/21 14:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.716U ± 0.659 (1.37)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18032 MW-21 **Lab ID: 92565071038** Collected: 09/27/21 14:31 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.308U ± 0.307 (0.603) C:86% T:NA	pCi/L	11/04/21 10:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.507U ± 0.343 (0.648) C:72% T:92%	pCi/L	10/27/21 14:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.815U ± 0.650 (1.25)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18033 MW-6 **Lab ID: 92565071039** Collected: 09/27/21 15:15 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0503U ± 0.213 (0.541) C:91% T:NA	pCi/L	11/04/21 10:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.264U ± 0.334 (0.710) C:77% T:86%	pCi/L	10/27/21 14:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.314U ± 0.547 (1.25)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18034 MW-7 **Lab ID: 92565071040** Collected: 09/27/21 16:00 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.319U ± 0.355 (0.748) C:87% T:NA	pCi/L	11/04/21 10:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0453U ± 0.285 (0.677) C:77% T:90%	pCi/L	10/27/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.319U ± 0.640 (1.43)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18035 FB-4 **Lab ID: 92565071041** Collected: 09/27/21 16:05 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.245U ± 0.331 (0.719) C:84% T:NA	pCi/L	11/04/21 10:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.602U ± 0.382 (0.716) C:74% T:84%	pCi/L	10/27/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.847U ± 0.713 (1.44)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18299 FB-3 **Lab ID: 92565071042** Collected: 09/28/21 10:35 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.292U ± 0.360 (0.753) C:68% T:NA	pCi/L	11/04/21 11:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.333U ± 0.326 (0.665) C:74% T:82%	pCi/L	10/27/21 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.625U ± 0.686 (1.42)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18300 MW-20V **Lab ID: 92565071043** Collected: 09/28/21 12:11 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	2.64 ± 0.722 (0.521) C:86% T:NA	pCi/L	11/04/21 11:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.232U ± 0.326 (0.698) C:72% T:84%	pCi/L	10/27/21 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.87 ± 1.05 (1.22)	pCi/L	11/05/21 16:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18301 MW-20SV **Lab ID: 92565071044** Collected: 09/28/21 13:35 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.93 ± 0.562 (0.384) C:88% T:NA	pCi/L	11/17/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.985 ± 0.387 (0.587) C:74% T:90%	pCi/L	11/02/21 10:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.92 ± 0.949 (0.971)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18302 MW-20 **Lab ID: 92565071045** Collected: 09/28/21 14:21 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	13.9 ± 2.35 (0.422) C:90% T:NA	pCi/L	11/17/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.45 ± 0.577 (0.924) C:74% T:69%	pCi/L	11/02/21 10:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	15.4 ± 2.93 (1.35)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18303 MW-18 **Lab ID: 92565071046** Collected: 09/28/21 15:20 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.00 ± 0.392 (0.448) C:92% T:NA	pCi/L	11/17/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.936 ± 0.423 (0.711) C:74% T:85%	pCi/L	11/02/21 10:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.94 ± 0.815 (1.16)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18304 MW-17 **Lab ID: 92565071047** Collected: 09/29/21 09:06 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.260U ± 0.243 (0.461) C:87% T:NA	pCi/L	11/17/21 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.917 ± 0.402 (0.648) C:72% T:87%	pCi/L	11/02/21 10:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.18 ± 0.645 (1.11)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18305 MW-17SV **Lab ID: 92565071048** Collected: 09/29/21 09:51 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.484 ± 0.285 (0.426) C:91% T:NA	pCi/L	11/17/21 12:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.742 ± 0.320 (0.502) C:75% T:97%	pCi/L	11/02/21 10:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.23 ± 0.605 (0.928)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18306 MW-17V **Lab ID: 92565071049** Collected: 09/29/21 11:12 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	7.23 ± 1.38 (0.433) C:88% T:NA	pCi/L	11/17/21 12:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	3.79 ± 0.918 (0.783) C:70% T:77%	pCi/L	11/02/21 10:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	11.0 ± 2.30 (1.22)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18307 MW-35V **Lab ID: 92565071050** Collected: 09/29/21 13:34 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.354U ± 0.244 (0.385) C:91% T:NA	pCi/L	11/17/21 12:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.913 ± 0.391 (0.627) C:76% T:84%	pCi/L	11/02/21 10:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.27 ± 0.635 (1.01)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18308 EB-1 **Lab ID: 92565071051** Collected: 09/29/21 14:45 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.123U ± 0.198 (0.439) C:93% T:NA	pCi/L	11/17/21 12:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.565U ± 0.332 (0.605) C:77% T:86%	pCi/L	11/02/21 10:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.688U ± 0.530 (1.04)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18309 FB-1 **Lab ID: 92565071052** Collected: 09/27/21 12:30 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.108U ± 0.158 (0.339) C:91% T:NA	pCi/L	11/17/21 12:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.450U ± 0.368 (0.733) C:71% T:84%	pCi/L	11/02/21 10:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.558U ± 0.526 (1.07)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18310 MW-15R **Lab ID: 92565071053** Collected: 09/28/21 08:50 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.363U ± 0.259 (0.433) C:90% T:NA	pCi/L	11/17/21 12:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.681U ± 0.401 (0.741) C:72% T:85%	pCi/L	11/02/21 10:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.04U ± 0.660 (1.17)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18311 MW-16V **Lab ID: 92565071054** Collected: 09/28/21 10:40 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.96 ± 0.568 (0.463) C:88% T:NA	pCi/L	11/17/21 12:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.13 ± 0.473 (0.761) C:74% T:85%	pCi/L	11/02/21 10:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.09 ± 1.04 (1.22)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18312 MW-16 **Lab ID: 92565071055** Collected: 09/28/21 11:55 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	3.44 ± 0.806 (0.438) C:91% T:NA	pCi/L	11/17/21 12:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.23 ± 0.458 (0.663) C:71% T:84%	pCi/L	11/02/21 10:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.67 ± 1.26 (1.10)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18313 MW-28H **Lab ID: 92565071056** Collected: 09/28/21 13:05 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	5.09 ± 1.03 (0.355) C:92% T:NA	pCi/L	11/17/21 12:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.38 ± 0.463 (0.618) C:73% T:91%	pCi/L	11/02/21 10:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	6.47 ± 1.49 (0.973)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18314 MW-29H **Lab ID: 92565071057** Collected: 09/28/21 15:00 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	15.0 ± 2.52 (0.421) C:92% T:NA	pCi/L	11/17/21 12:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.84 ± 0.563 (0.719) C:72% T:91%	pCi/L	11/02/21 10:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	16.8 ± 3.08 (1.14)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18315 MW-31VR **Lab ID: 92565071058** Collected: 09/29/21 10:45 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.129U ± 0.194 (0.424) C:94% T:NA	pCi/L	11/17/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.334U ± 0.350 (0.727) C:70% T:86%	pCi/L	11/02/21 10:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.463U ± 0.544 (1.15)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18316 FB-5 **Lab ID: 92565071059** Collected: 09/29/21 11:05 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0585U ± 0.122 (0.397) C:94% T:NA	pCi/L	11/17/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.345U ± 0.335 (0.686) C:70% T:87%	pCi/L	11/02/21 10:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.345U ± 0.457 (1.08)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18317 MW-30H **Lab ID: 92565071060** Collected: 09/29/21 12:02 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.638 ± 0.305 (0.372) C:97% T:NA	pCi/L	11/17/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.06 ± 0.445 (0.705) C:72% T:89%	pCi/L	11/02/21 10:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.70 ± 0.750 (1.08)	pCi/L	11/24/21 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

Sample: BB18318 MW-34V **Lab ID: 92565071061** Collected: 09/29/21 13:28 Received: 10/06/21 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.259U ± 0.208 (0.352) C:94% T:NA	pCi/L	11/17/21 14:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.55 ± 0.560 (0.807) C:68% T:83%	pCi/L	11/02/21 14:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.81 ± 0.768 (1.16)	pCi/L	11/24/21 15:40	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

QC Batch: 468259

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92565071027, 92565071028, 92565071029, 92565071044, 92565071045, 92565071046, 92565071047, 92565071048, 92565071049, 92565071050, 92565071051, 92565071052, 92565071053, 92565071054, 92565071055, 92565071056, 92565071057, 92565071058, 92565071059, 92565071060

METHOD BLANK: 2260797

Matrix: Water

Associated Lab Samples: 92565071027, 92565071028, 92565071029, 92565071044, 92565071045, 92565071046, 92565071047, 92565071048, 92565071049, 92565071050, 92565071051, 92565071052, 92565071053, 92565071054, 92565071055, 92565071056, 92565071057, 92565071058, 92565071059, 92565071060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0841 ± 0.187 (0.441) C:90% T:NA	pCi/L	11/17/21 11:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

QC Batch: 468569

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92565071061

METHOD BLANK: 2262521

Matrix: Water

Associated Lab Samples: 92565071061

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.304 ± 0.400 (0.850) C:64% T:78%	pCi/L	11/02/21 14:07	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

QC Batch: 468567

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92565071020, 92565071021, 92565071022, 92565071024, 92565071025, 92565071026, 92565071030, 92565071031, 92565071032, 92565071033, 92565071034, 92565071035, 92565071036, 92565071037, 92565071038, 92565071039, 92565071040, 92565071041, 92565071042, 92565071043

METHOD BLANK: 2262519

Matrix: Water

Associated Lab Samples: 92565071020, 92565071021, 92565071022, 92565071024, 92565071025, 92565071026, 92565071030, 92565071031, 92565071032, 92565071033, 92565071034, 92565071035, 92565071036, 92565071037, 92565071038, 92565071039, 92565071040, 92565071041, 92565071042, 92565071043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.910 ± 0.482 (0.863) C:75% T:75%	pCi/L	10/27/21 11:09	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GASTON ASH POND WMWGASAP_1339

Pace Project No.: 92565071

QC Batch: 468260

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92565071061

METHOD BLANK: 2260798

Matrix: Water

Associated Lab Samples: 92565071061

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.105 ± 0.204 (0.471) C:86% T:NA	pCi/L	11/17/21 14:27	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GASTON ASH POND WMWGASAP_1339
Pace Project No.: 92565071

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g Analyte detected in Method Blank. Samples reported based on sample activity results less than RDL of 1.0 pCi/L.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GASTON ASH POND WMWGASAP_1339
Pace Project No.: 92565071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92565071001	BB17704 MW-38	EPA 9315	468254		
92565071002	BB17705 MW-41	EPA 9315	468254		
92565071003	BB17706 MW-41 DUP	EPA 9315	468254		
92565071004	BB17707 MW-39	EPA 9315	468254		
92565071005	BB17708 MW-39 DUP	EPA 9315	468254		
92565071006	BB17709 MW-40	EPA 9315	468254		
92565071007	BB17710 MW-42	EPA 9315	468254		
92565071008	BB17711 MW-36V	EPA 9315	468254		
92565071009	BB17712 MW-33V	EPA 9315	468254		
92565071010	BB17713 MW-23D	EPA 9315	468254		
92565071011	BB17714 MW-23D DUP	EPA 9315	468254		
92565071012	BB17715 MW-23S	EPA 9315	468254		
92565071013	BB17716 MW-27	EPA 9315	468254		
92565071014	BB17717 MW-26	EPA 9315	468254		
92565071015	BB17717 MW-26 MS	EPA 9315	468254		
92565071016	BB17717 MW-26 MSD	EPA 9315	468254		
92565071017	BB17718 MW-19	EPA 9315	468254		
92565071018	BB17719 MW-9	EPA 9315	468254		
92565071019	BB17720 MW-10	EPA 9315	468254		
92565071020	BB17721 MW-11	EPA 9315	468256		
92565071021	BB17721 MW-11 MS	EPA 9315	468256		
92565071022	BB17721 MW-11 MSD	EPA 9315	468256		
92565071023	BB17722 MW-8	EPA 9315	468254		
92565071024	BB17723 MW-12	EPA 9315	468256		
92565071025	BB17724 MW-13	EPA 9315	468256		
92565071026	BB17725 MW-14	EPA 9315	468256		
92565071027	BB18023 MW-4	EPA 9315	468259		
92565071028	BB18023 MW-4 MS	EPA 9315	468259		
92565071029	BB18023 MW-4 MSD	EPA 9315	468259		
92565071030	BB18024 MW-3	EPA 9315	468256		
92565071031	BB18025 MW-32V	EPA 9315	468256		
92565071032	BB18026 MW-37V	EPA 9315	468256		
92565071033	BB18027 FB-2	EPA 9315	468256		
92565071034	BB18028 MW-5	EPA 9315	468256		
92565071035	BB18029 MW-5 DUP	EPA 9315	468256		
92565071036	BB18030 MW-22	EPA 9315	468256		
92565071037	BB18031 MW-22 DUP	EPA 9315	468256		
92565071038	BB18032 MW-21	EPA 9315	468256		
92565071039	BB18033 MW-6	EPA 9315	468256		
92565071040	BB18034 MW-7	EPA 9315	468256		
92565071041	BB18035 FB-4	EPA 9315	468256		
92565071042	BB18299 FB-3	EPA 9315	468256		
92565071043	BB18300 MW-20V	EPA 9315	468256		
92565071044	BB18301 MW-20SV	EPA 9315	468259		
92565071045	BB18302 MW-20	EPA 9315	468259		
92565071046	BB18303 MW-18	EPA 9315	468259		

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Project: GASTON ASH POND WMWGASAP_1339
Pace Project No.: 92565071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92565071047	BB18304 MW-17	EPA 9315	468259		
92565071048	BB18305 MW-17SV	EPA 9315	468259		
92565071049	BB18306 MW-17V	EPA 9315	468259		
92565071050	BB18307 MW-35V	EPA 9315	468259		
92565071051	BB18308 EB-1	EPA 9315	468259		
92565071052	BB18309 FB-1	EPA 9315	468259		
92565071053	BB18310 MW-15R	EPA 9315	468259		
92565071054	BB18311 MW-16V	EPA 9315	468259		
92565071055	BB18312 MW-16	EPA 9315	468259		
92565071056	BB18313 MW-28H	EPA 9315	468259		
92565071057	BB18314 MW-29H	EPA 9315	468259		
92565071058	BB18315 MW-31VR	EPA 9315	468259		
92565071059	BB18316 FB-5	EPA 9315	468259		
92565071060	BB18317 MW-30H	EPA 9315	468259		
92565071061	BB18318 MW-34V	EPA 9315	468260		
92565071001	BB17704 MW-38	EPA 9320	468566		
92565071002	BB17705 MW-41	EPA 9320	468566		
92565071003	BB17706 MW-41 DUP	EPA 9320	468566		
92565071004	BB17707 MW-39	EPA 9320	468566		
92565071005	BB17708 MW-39 DUP	EPA 9320	468566		
92565071006	BB17709 MW-40	EPA 9320	468566		
92565071007	BB17710 MW-42	EPA 9320	468566		
92565071008	BB17711 MW-36V	EPA 9320	468566		
92565071009	BB17712 MW-33V	EPA 9320	468566		
92565071010	BB17713 MW-23D	EPA 9320	468566		
92565071011	BB17714 MW-23D DUP	EPA 9320	468566		
92565071012	BB17715 MW-23S	EPA 9320	468566		
92565071013	BB17716 MW-27	EPA 9320	468566		
92565071014	BB17717 MW-26	EPA 9320	468566		
92565071015	BB17717 MW-26 MS	EPA 9320	468566		
92565071016	BB17717 MW-26 MSD	EPA 9320	468566		
92565071017	BB17718 MW-19	EPA 9320	468566		
92565071018	BB17719 MW-9	EPA 9320	468566		
92565071019	BB17720 MW-10	EPA 9320	468566		
92565071020	BB17721 MW-11	EPA 9320	468567		
92565071021	BB17721 MW-11 MS	EPA 9320	468567		
92565071022	BB17721 MW-11 MSD	EPA 9320	468567		
92565071023	BB17722 MW-8	EPA 9320	468566		
92565071024	BB17723 MW-12	EPA 9320	468567		
92565071025	BB17724 MW-13	EPA 9320	468567		
92565071026	BB17725 MW-14	EPA 9320	468567		
92565071027	BB18023 MW-4	EPA 9320	468568		
92565071028	BB18023 MW-4 MS	EPA 9320	468568		
92565071029	BB18023 MW-4 MSD	EPA 9320	468568		
92565071030	BB18024 MW-3	EPA 9320	468567		

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Project: GASTON ASH POND WMWGASAP_1339
Pace Project No.: 92565071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92565071031	BB18025 MW-32V	EPA 9320	468567		
92565071032	BB18026 MW-37V	EPA 9320	468567		
92565071033	BB18027 FB-2	EPA 9320	468567		
92565071034	BB18028 MW-5	EPA 9320	468567		
92565071035	BB18029 MW-5 DUP	EPA 9320	468567		
92565071036	BB18030 MW-22	EPA 9320	468567		
92565071037	BB18031 MW-22 DUP	EPA 9320	468567		
92565071038	BB18032 MW-21	EPA 9320	468567		
92565071039	BB18033 MW-6	EPA 9320	468567		
92565071040	BB18034 MW-7	EPA 9320	468567		
92565071041	BB18035 FB-4	EPA 9320	468567		
92565071042	BB18299 FB-3	EPA 9320	468567		
92565071043	BB18300 MW-20V	EPA 9320	468567		
92565071044	BB18301 MW-20SV	EPA 9320	468568		
92565071045	BB18302 MW-20	EPA 9320	468568		
92565071046	BB18303 MW-18	EPA 9320	468568		
92565071047	BB18304 MW-17	EPA 9320	468568		
92565071048	BB18305 MW-17SV	EPA 9320	468568		
92565071049	BB18306 MW-17V	EPA 9320	468568		
92565071050	BB18307 MW-35V	EPA 9320	468568		
92565071051	BB18308 EB-1	EPA 9320	468568		
92565071052	BB18309 FB-1	EPA 9320	468568		
92565071053	BB18310 MW-15R	EPA 9320	468568		
92565071054	BB18311 MW-16V	EPA 9320	468568		
92565071055	BB18312 MW-16	EPA 9320	468568		
92565071056	BB18313 MW-28H	EPA 9320	468568		
92565071057	BB18314 MW-29H	EPA 9320	468568		
92565071058	BB18315 MW-31VR	EPA 9320	468568		
92565071059	BB18316 FB-5	EPA 9320	468568		
92565071060	BB18317 MW-30H	EPA 9320	468568		
92565071061	BB18318 MW-34V	EPA 9320	468569		
92565071001	BB17704 MW-38	Total Radium Calculation	471487		
92565071002	BB17705 MW-41	Total Radium Calculation	471487		
92565071003	BB17706 MW-41 DUP	Total Radium Calculation	471487		
92565071004	BB17707 MW-39	Total Radium Calculation	471487		
92565071005	BB17708 MW-39 DUP	Total Radium Calculation	471487		
92565071006	BB17709 MW-40	Total Radium Calculation	471487		
92565071007	BB17710 MW-42	Total Radium Calculation	471487		
92565071008	BB17711 MW-36V	Total Radium Calculation	471487		
92565071009	BB17712 MW-33V	Total Radium Calculation	471487		
92565071010	BB17713 MW-23D	Total Radium Calculation	471487		
92565071011	BB17714 MW-23D DUP	Total Radium Calculation	471487		
92565071012	BB17715 MW-23S	Total Radium Calculation	471487		
92565071013	BB17716 MW-27	Total Radium Calculation	471487		
92565071014	BB17717 MW-26	Total Radium Calculation	471487		
92565071017	BB17718 MW-19	Total Radium Calculation	471487		
92565071018	BB17719 MW-9	Total Radium Calculation	471487		

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Pace Project No.: 92565071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92565071019	BB17720 MW-10	Total Radium Calculation	471487		
92565071020	BB17721 MW-11	Total Radium Calculation	471485		
92565071023	BB17722 MW-8	Total Radium Calculation	471487		
92565071024	BB17723 MW-12	Total Radium Calculation	471485		
92565071025	BB17724 MW-13	Total Radium Calculation	471485		
92565071026	BB17725 MW-14	Total Radium Calculation	471485		
92565071027	BB18023 MW-4	Total Radium Calculation	474014		
92565071030	BB18024 MW-3	Total Radium Calculation	471485		
92565071031	BB18025 MW-32V	Total Radium Calculation	471485		
92565071032	BB18026 MW-37V	Total Radium Calculation	471485		
92565071033	BB18027 FB-2	Total Radium Calculation	471485		
92565071034	BB18028 MW-5	Total Radium Calculation	471485		
92565071035	BB18029 MW-5 DUP	Total Radium Calculation	471485		
92565071036	BB18030 MW-22	Total Radium Calculation	471485		
92565071037	BB18031 MW-22 DUP	Total Radium Calculation	471485		
92565071038	BB18032 MW-21	Total Radium Calculation	471485		
92565071039	BB18033 MW-6	Total Radium Calculation	471485		
92565071040	BB18034 MW-7	Total Radium Calculation	471485		
92565071041	BB18035 FB-4	Total Radium Calculation	471485		
92565071042	BB18299 FB-3	Total Radium Calculation	471485		
92565071043	BB18300 MW-20V	Total Radium Calculation	471485		
92565071044	BB18301 MW-20SV	Total Radium Calculation	474014		
92565071045	BB18302 MW-20	Total Radium Calculation	474014		
92565071046	BB18303 MW-18	Total Radium Calculation	474014		
92565071047	BB18304 MW-17	Total Radium Calculation	474014		
92565071048	BB18305 MW-17SV	Total Radium Calculation	474014		
92565071049	BB18306 MW-17V	Total Radium Calculation	474014		
92565071050	BB18307 MW-35V	Total Radium Calculation	474014		
92565071051	BB18308 EB-1	Total Radium Calculation	474014		
92565071052	BB18309 FB-1	Total Radium Calculation	474014		
92565071053	BB18310 MW-15R	Total Radium Calculation	474014		
92565071054	BB18311 MW-16V	Total Radium Calculation	474014		
92565071055	BB18312 MW-16	Total Radium Calculation	474014		
92565071056	BB18313 MW-28H	Total Radium Calculation	474014		
92565071057	BB18314 MW-29H	Total Radium Calculation	474014		
92565071058	BB18315 MW-31VR	Total Radium Calculation	474014		
92565071059	BB18316 FB-5	Total Radium Calculation	474014		
92565071060	BB18317 MW-30H	Total Radium Calculation	474014		
92565071061	BB18318 MW-34V	Total Radium Calculation	474015		

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Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace Charlotte



92565071

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 5320 6279 3184

Label	<u>JA</u>
LIMS Login	<u>VP Inc</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue (None)

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:	
				<u>10D0411</u>	<u>10-14-21</u>	<u>JA</u>
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.		
Chain of Custody Relinquished: <u>JA 10-14-21</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.		
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.		
-Includes date/time/ID Matrix: <u>WT</u>						
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.		
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.		
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.		
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.		
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.		
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.		
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.		
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.		
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.		
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.		
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					<u>pH < 2</u>	
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed	<u>JA</u>	Date/time of preservation
				Lot # of added preservative		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.		
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.		
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed:	<u>JA</u>	Date: <u>10-14-21</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

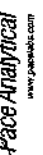
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

PH: RES Due Date: 11/04/21
 CLIENT: PACE_92_HUNC

WO#: 30445049

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 10/26/2021
Worklist: 63154
Matrix: DW

Method Blank Assessment	
MB Sample ID	2260795
MB concentration:	0.514
M/B Counting Uncertainty:	0.364
MB MDC:	0.657
MB Numerical Performance Indicator:	2.77
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		LCS63154	11/4/2021
Spike ID:		LCS63154	19-033
Decay Corrected Spike Concentration (pCi/mL):		24-033	24-033
Volume Used (mL):		0.10	0.10
Aliquot Volume (L, g, F):		0.209	0.209
Target Conc. (pCi/L, g, F):		11.484	11.483
Uncertainty (Calculated):		0.138	0.138
Result (pCi/L, g, F):		12.727	12.067
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		1.634	1.327
Numerical Performance Indicator:		1.49	0.84
Percent Recovery:		110.82%	104.96%
Status vs Numerical Indicator:		N/A	N/A
Upper % Recovery Limits:		Pass	Pass
Lower % Recovery Limits:		75%	75%

Duplicate Sample Assessment	
Sample ID:	LCS63154
Duplicate Sample ID:	LCS63154
Sample Result (pCi/L, g, F):	12.727
Sample Duplicate Result (pCi/L, g, F):	1.634
Sample Result Counting Uncertainty (pCi/L, g, F):	12.067
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.327
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.614
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.40%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		92565071014	
Sample MS ID:		92565071016	
Sample MSD ID:		92565071016	
Spike ID:		19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		25.335	
Spike Volume Used in MS (mL):		0.20	
MS Aliquot (L, g, F):		0.202	
MS Target Conc. (pCi/L, g, F):		25.052	
MSD Aliquot (L, g, F):		0.204	
MSD Target Conc. (pCi/L, g, F):		24.808	
MS Spike Uncertainty (calculated):		0.301	
MSD Spike Uncertainty (calculated):		0.288	
Sample Result:		0.447	
Sample Result Counting Uncertainty (pCi/L, g, F):		0.456	
Sample Matrix Spike Result:		27.134	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		1.925	
Sample Matrix Spike Duplicate Result:		28.711	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		1.973	
MS Numerical Performance Indicator:		1.801	
MSD Numerical Performance Indicator:		3.310	
MS Percent Recovery:		106.53%	
MSD Percent Recovery:		113.93%	
MS Status vs Numerical Indicator:		N/A	
MSD Status vs Numerical Indicator:		N/A	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		125%	
MS/MSD Lower % Recovery Limits:		75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample ID:	92565071014
Sample MS ID:	92565071016
Sample MSD ID:	92565071016
Sample Matrix Spike Result:	27.134
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.925
Sample Matrix Spike Duplicate Result:	28.711
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.973
Duplicate Numerical Performance Indicator:	-1.121
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	6.72%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

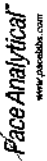
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

LAN 11/5/21

02/11/21

Quality Control Sample Performance Assessment



Analyst: Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: VAL
 Date: 10/19/2021
 Worksheet: 63165
 Matrix: WT

Method Blank Assessment

MB Sample ID	2262518
MB concentration:	1.121
MB 2 Sigma CSU:	0.395
MB MDC:	0.542
MB Numerical Performance Indicator:	5.56
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Fail*

Laboratory Control Sample Assessment

LCSD (Y or N)?	Y
Count Date:	10/26/2021
Spike ID:	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.696
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.829
Target Conc. (pCi/L, g, F):	4.545
Uncertainty (Calculated):	0.223
Result (pCi/L, g, F):	3.788
LCSt/LCSD 2 Sigma CSU (pCi/L, g, F):	0.889
Numerical Performance Indicator:	-1.78
Percent Recovery:	82.00%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment

Sample ID:	LCSD63165
Duplicate Sample ID:	LCSD63165
Sample Result (pCi/L, g, F):	3.788
Sample Duplicate Result (pCi/L, g, F):	0.889
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.467
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.853
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.511
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries):	7.23%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Sample Matrix Spike Control Assessment

Sample Collection Date:	MSMSD 1 9/22/2021	MSMSD 2
Sample ID:	92565071014	
Sample MS ID:	92565071015	
Sample MSD ID:	92565071016	
Spike ID:	21-029	
MSMSD Decay Corrected Spike Concentration (pCi/mL):	38.125	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.900	
MS Target Conc. (pCi/L, g, F):	8.469	
MSD Aliquot (L, g, F):	0.872	
MSD Target Conc. (pCi/L, g, F):	8.746	
MS Spike Uncertainty (calculated):	0.415	
MSD Spike Uncertainty (calculated):	0.429	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.750	
Sample Matrix Spike Result:	0.363	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	8.336	
Sample Matrix Spike Duplicate Result:	1.677	
Sample Matrix Spike Duplicate Result:	7.715	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.549	
MS Numerical Performance Indicator:	-0.982	
MSD Numerical Performance Indicator:	-2.118	
MS Percent Recovery:	89.56%	
MSD Percent Recovery:	79.64%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Warning	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample ID:	92565071014
Sample MS ID:	92565071015
Sample MSD ID:	92565071016
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	8.336
Matrix Spike Duplicate Result:	1.677
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	7.715
Duplicate Numerical Performance Indicator:	0.533
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries):	11.73%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

**if the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped. Sample results < 1.0 acceptable*

Analyst

Analyst

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 10/19/2021
Worklist: 63166
Matrix: WT



Method Blank Assessment	
MB Sample ID	2262519
MB concentration:	0.910
MB 2 Sigma CSU:	0.482
MB MDC:	0.863
MB Numerical Performance Indicator:	3.70
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
Count Date	10/27/2021
Spike I.D.:	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.687
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.819
Target Conc. (pCi/L, g, F):	4.800
Uncertainty (Calculated):	0.225
Result (pCi/L, g, F):	3.403
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.992
Numerical Performance Indicator:	-0.87
Percent Recovery:	92.44%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS63166
Duplicate Sample I.D.:	LCSD63166
Sample Result (pCi/L, g, F):	4.239
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.992
Sample Duplicate Result (pCi/L, g, F):	3.403
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.868
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.244
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	22.19%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

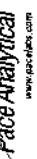
*The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		9/21/2021	
Sample I.D.:		92565071020	
Sample MS I.D.:		92565071021	
Sample MSD I.D.:		92565071022	
Spike I.D.:		21-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		38.136	
Spike Volume Used in MS (mL):		0.20	
MS Aliquot (L, g, F):		0.862	
MS Target Conc. (pCi/L, g, F):		8.648	
MSD Aliquot (L, g, F):		0.917	
MSD Target Conc. (pCi/L, g, F):		8.318	
MS Spike Uncertainty (calculated):		0.424	
MSD Spike Uncertainty (calculated):		0.408	
Sample Result:		0.077	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.290	
Sample Matrix Spike Result:		7.208	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		1.491	
Sample Matrix Spike Duplicate Result:		6.126	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		1.276	
MS Numerical Performance Indicator:		-1.886	
MSD Numerical Performance Indicator:		-3.246	
MS Percent Recovery:		82.46%	
MSD Percent Recovery:		73.72%	
MS Status vs Numerical Indicator:		Pass	
MSD Status vs Numerical Indicator:		Fail***	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92565071020
Sample MS I.D.:	92565071021
Sample MSD I.D.:	92565071022
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	7.208
Sample Matrix Spike Duplicate Result:	1.491
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	6.126
Duplicate Numerical Performance Indicator:	1.276
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	12.56%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

QC/10/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: VAL
 Date: 10/19/2021
 Worklist: 63167
 Matrix: WT

Method Blank Assessment

MB Sample ID	2262520
MB concentration:	0.218
MB 2 Sigma CSU:	0.269
MB MDC:	0.566
MB Numerical Performance Indicator:	1.59
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

LCSD (Y or N)?	Y
LCSD63167	11/2/2021
Count Date:	11/2/2021
Spike I.D.:	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.612
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.822
Target Conc. (pCi/L, g, F):	4.574
Uncertainty (Calculated):	0.224
Result (pCi/L, g, F):	3.466
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.876
Numerical Performance Indicator:	-2.40
Percent Recovery:	75.78%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment

Sample I.D.:	LC563167
Duplicate Sample I.D.:	LCSD63167
Sample Result (pCi/L, g, F):	3.466
Sample Duplicate Result (pCi/L, g, F):	0.876
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.793
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.087
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.864
Duplicate Percent Recoveries): Duplicate RPD:	32.04%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Sample Matrix Spike Control Assessment

Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample I.D.:	9/27/2021	
Sample MS I.D.:	92565071027	
Sample MSD I.D.:	92565071028	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	21-029	
Spike I.D.:	38.061	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.899	
MS Target Conc. (pCi/L, g, F):	8.562	
MSD Aliquot (L, g, F):	0.915	
MSD Target Conc. (pCi/L, g, F):	8.315	
MS Spike Uncertainty (calculated):	0.420	
MSD Spike Uncertainty (calculated):	0.407	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.674	
Sample Matrix Spike Result:	0.365	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	7.708	
Sample Matrix Spike Duplicate Result:	1.557	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	8.154	
MS Numerical Performance Indicator:	1.628	
MSD Numerical Performance Indicator:	-1.811	
MS Percent Recovery:	-0.953	
MSD Percent Recovery:	89.96%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	92565071027
Sample MS I.D.:	92565071028
Sample MSD I.D.:	92565071029
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	7.708
Sample Matrix Spike Duplicate Result:	1.557
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	8.154
Duplicate Numerical Performance Indicator:	-0.388
Duplicate Percent Recoveries): MS/MSD Duplicate RPD:	9.06%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

21/11/3/24

10/11/21

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 10/19/2021
Worklist: 63168
Matrix: WT



Method Blank Assessment	
MB Sample ID	2262521
MB concentration:	0.304
MB 2 Sigma CSU:	0.400
MB MDC:	0.850
MB Numerical Performance Indicator:	1.49
MB Status vs. Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS#	Y or N?
LCS63168	Y
LCS63168	Y
Count Date:	11/2/2021
Spike I.D.:	21-029
Decay Corrected Spike Concentration (pCi/mL):	37.610
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.815
Target Conc. (pCi/L, g, F):	4.617
Uncertainty (Calculated):	0.228
Result (pCi/L, g, F):	4.917
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.191
Numerical Performance Indicator:	0.49
Percent Recovery:	106.50%
Status vs Numerical Indicator:	Pass
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS63168
Duplicate Sample I.D.:	LCS63168
Sample Result (pCi/L, g, F):	4.917
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.191
Sample Duplicate Result (pCi/L, g, F):	4.475
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.080
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.539
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.68%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

11/11/21

Sample Matrix Spike Control Assessment	
Sample Collection Date:	10/4/2021
Sample I.D.:	92567006011
Sample MS I.D.:	92567006012
Sample MSD I.D.:	92567006013
Spike I.D.:	21-029
MMS/MSD Decay Corrected Spike Concentration (pCi/mL):	37.972
Spike Volume Used in MS (mL):	0.20
MS Aliquot (L, g, F):	0.860
MS Target Conc. (pCi/L, g, F):	8.830
MSD Aliquot (L, g, F):	0.863
MSD Target Conc. (pCi/L, g, F):	8.798
MS Spike Uncertainty (calculated):	0.433
MSD Spike Uncertainty (calculated):	0.431
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.643
Sample Matrix Spike Result:	0.601
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	7.120
Sample Matrix Spike Duplicate Result:	1.526
Sample Matrix Spike Duplicate Result:	7.700
MS Numerical Performance Indicator:	1.630
MSD Numerical Performance Indicator:	-3.874
MS Percent Recovery:	-3.001
MSD Percent Recovery:	62.02%
MS Status vs Numerical Indicator:	68.85%
MSD Status vs Numerical Indicator:	Fail***
MS Status vs Recovery:	Fail***
MSD Status vs Recovery:	Pass
MMS/MSD Upper % Recovery Limits:	135%
MMS/MSD Lower % Recovery Limits:	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92567006011
Sample MS I.D.:	92567006012
Sample MSD I.D.:	92567006013
Sample Matrix Spike Result:	7.120
Sample Matrix Spike Duplicate Result:	1.526
Sample Matrix Spike Duplicate Result:	7.700
Duplicate Numerical Performance Indicator:	1.630
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	10.43%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

MMS/MSD pass % Recovery criteria

***If all other QC criteria pass, this benefit is acceptable. The matrix spike/duplicate result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyt: JYJ
 Date: 10/27/2021
 Worklist: 63155
 Matrix: DW



Method Blank Assessment	
MB Sample ID	2260796
MB Concentration:	0.242
MB Counting Uncertainty:	0.259
MB MDC:	0.509
MB Numerical Performance Indicator:	1.83
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
Count Date:		LCS063155	
Spike I.D.:		11/4/2021	
Decay Corrected Spike Concentration (pCi/mL):		19-033	24.033
Volume Used (mL):		0.10	0.10
Aliquot Volume (L, g, F):		0.215	11.196
Target Conc. (pCi/L, g, F):		11.067	0.134
Uncertainty (Calculated):		0.133	12.732
Result (pCi/L, g, F):		11.423	1.302
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		1.196	2.30
Numerical Performance Indicator:		0.58	113.72%
Percent Recovery:		103.22%	N/A
Status vs Numerical Indicator:		N/A	Pass
Upper % Recovery Limits:		125%	125%
Lower % Recovery Limits:		75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS063155
Duplicate Sample I.D.:	LCS063155
Sample Result (pCi/L, g, F):	11.423
Duplicate Result (pCi/L, g, F):	1.196
Sample Duplicate Result (pCi/L, g, F):	12.732
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.302
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.450
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.88%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		9/21/2021	
Sample I.D.:		92565071020	
Sample MS I.D.:		92565071021	
Sample MSD I.D.:		92565071022	
Spike I.D.:		19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		24.034	
Spike Volume Used in MS (mL):		0.20	
MS Aliquot (L, g, F):		0.214	
MS Target Conc. (pCi/L, g, F):		22.509	
MSD Aliquot (L, g, F):		0.215	
MSD Target Conc. (pCi/L, g, F):		22.336	
MS Spike Uncertainty (calculated):		0.270	
MSD Spike Uncertainty (calculated):		0.268	
Sample Result Counting Uncertainty (pCi/L, g, F):		-0.039	
Sample Matrix Spike Result:		0.170	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		1.726	
Sample Matrix Spike Duplicate Result:		22.637	
MS Numerical Performance Indicator:		1.693	
MSD Numerical Performance Indicator:		0.544	
MS Percent Recovery:		102.16%	
MSD Percent Recovery:		101.52%	
MS Status vs Numerical Indicator:		N/A	
MSD Status vs Numerical Indicator:		N/A	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		125%	
MS/MSD Lower % Recovery Limits:		75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92565071020
Sample MS I.D.:	92565071021
Sample MSD I.D.:	92565071022
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	22.957
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.726
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	22.637
Duplicate Numerical Performance Indicator:	1.693
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	0.63%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

6/11/5/21

6/11/5/21



Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: JJY
Date: 10/27/2021
Worklist: 63156
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2260797
MB concentration:	0.084
M/B Counting Uncertainty:	0.187
MB MDC:	0.441
MB Numerical Performance Indicator:	0.88
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	Y
	LCS63156	LCS63156
Count Date:	11/17/2021	11/17/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.032	24.032
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.232	0.228
Target Conc. (pCi/L, g, F):	10.340	10.534
Uncertainty (Calculated):	0.124	0.126
Result (pCi/L, g, F):	10.723	10.309
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.047	1.029
Numerical Performance Indicator:	0.71	-0.43
Percent Recovery:	103.71%	97.86%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS63156
Duplicate Sample I.D.:	LCS63156
Sample Result (pCi/L, g, F):	10.723
Sample Result Counting Uncertainty (pCi/L, g, F):	1.047
Sample Duplicate Result (pCi/L, g, F):	10.309
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.029
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.554
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.80%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	9/27/2021	
Sample I.D.:	92565071027	
Sample MS I.D.:	92565071028	
Sample MSD I.D.:	92565071029	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.034	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.209	
MS Target Conc. (pCi/L, g, F):	22.969	
MSD Aliquot (L, g, F):	0.206	
MSD Target Conc. (pCi/L, g, F):	23.296	
MS Spike Uncertainty (calculated):	0.276	
MSD Spike Uncertainty (calculated):	0.280	
Sample Result:	0.071	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.169	
Sample Matrix Spike Result:	24.439	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.618	
Sample Matrix Spike Duplicate Result:	25.178	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.644	
MS Numerical Performance Indicator:	1.661	
MSD Numerical Performance Indicator:	2.116	
MS Percent Recovery:	106.09%	
MSD Percent Recovery:	107.77%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92565071027
Sample MS I.D.:	92565071028
Sample MSD I.D.:	92565071029
Sample Matrix Spike Result:	24.439
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.618
Sample Matrix Spike Duplicate Result:	25.178
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.644
Duplicate Numerical Performance Indicator:	-0.628
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	1.57%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:



Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: JJY
Date: 10/26/2021
Worklist: 63157
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2260798
MB concentration:	0.105
M/B Counting Uncertainty:	0.204
MB MDC:	0.471
MB Numerical Performance Indicator:	1.01
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	Y
	LCS63157	LCS63157
Count Date:	11/17/2021	11/17/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.032	24.032
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.207	0.214
Target Conc. (pCi/L, g, F):	11.623	11.205
Uncertainty (Calculated):	0.139	0.134
Result (pCi/L, g, F):	12.162	12.843
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.189	1.212
Numerical Performance Indicator:	0.88	2.63
Percent Recovery:	104.64%	114.62%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS63157
Duplicate Sample I.D.:	LCSD63157
Sample Result (pCi/L, g, F):	12.162
Sample Result Counting Uncertainty (pCi/L, g, F):	1.189
Sample Duplicate Result (pCi/L, g, F):	12.843
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.212
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.785
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.10%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/4/2021	
Sample I.D.	92567006011	
Sample MS I.D.	92567006012	
Sample MSD I.D.	92567006013	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.034	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.212	
MS Target Conc.(pCi/L, g, F):	22.681	
MSD Aliquot (L, g, F):	0.214	
MSD Target Conc. (pCi/L, g, F):	22.498	
MS Spike Uncertainty (calculated):	0.272	
MSD Spike Uncertainty (calculated):	0.270	
Sample Result:	0.057	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.142	
Sample Matrix Spike Result:	23.954	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.554	
Sample Matrix Spike Duplicate Result:	23.334	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.533	
MS Numerical Performance Indicator:	1.504	
MSD Numerical Performance Indicator:	0.976	
MS Percent Recovery:	105.36%	
MSD Percent Recovery:	103.46%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	92567006011
Sample MS I.D.	92567006012
Sample MSD I.D.	92567006013
Sample Matrix Spike Result:	23.954
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.554
Sample Matrix Spike Duplicate Result:	23.334
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.533
Duplicate Numerical Performance Indicator:	0.557
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	1.82%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-33V	9/22/2021 11:02	Conductivity	566.43	uS/cm
GN-AP-MW-33V	9/22/2021 11:02	DO	1.05	mg/L
GN-AP-MW-33V	9/22/2021 11:02	Depth to Water Detail	48.59	ft
GN-AP-MW-33V	9/22/2021 11:02	Oxidation Reduction Potention	-272.29	mv
GN-AP-MW-33V	9/22/2021 11:02	pH	7.67	SU
GN-AP-MW-33V	9/22/2021 11:02	Temperature	22.14	C
GN-AP-MW-33V	9/22/2021 11:02	Turbidity	2.68	NTU
GN-AP-MW-33V	9/22/2021 11:17	Conductivity	570.54	uS/cm
GN-AP-MW-33V	9/22/2021 11:17	DO	1.14	mg/L
GN-AP-MW-33V	9/22/2021 11:17	Depth to Water Detail	51.68	ft
GN-AP-MW-33V	9/22/2021 11:17	Oxidation Reduction Potention	-244.76	mv
GN-AP-MW-33V	9/22/2021 11:17	pH	7.78	SU
GN-AP-MW-33V	9/22/2021 11:17	Temperature	22.47	C
GN-AP-MW-33V	9/22/2021 11:17	Turbidity	2.12	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-36V	9/22/2021 8:58	Conductivity	1372.67	uS/cm
GN-AP-MW-36V	9/22/2021 8:58	DO	0.21	mg/L
GN-AP-MW-36V	9/22/2021 8:58	Depth to Water Detail	46.78	ft
GN-AP-MW-36V	9/22/2021 8:58	Oxidation Reduction Potention	-321.14	mv
GN-AP-MW-36V	9/22/2021 8:58	pH	7.97	SU
GN-AP-MW-36V	9/22/2021 8:58	Temperature	20.95	C
GN-AP-MW-36V	9/22/2021 8:58	Turbidity	1.84	NTU
GN-AP-MW-36V	9/22/2021 9:03	Conductivity	1343.36	uS/cm
GN-AP-MW-36V	9/22/2021 9:03	DO	0.19	mg/L
GN-AP-MW-36V	9/22/2021 9:03	Depth to Water Detail	47.68	ft
GN-AP-MW-36V	9/22/2021 9:03	Oxidation Reduction Potention	-297.16	mv
GN-AP-MW-36V	9/22/2021 9:03	pH	7.9	SU
GN-AP-MW-36V	9/22/2021 9:03	Temperature	20.88	C
GN-AP-MW-36V	9/22/2021 9:03	Turbidity	1.55	NTU
GN-AP-MW-36V	9/22/2021 9:08	Conductivity	1348.59	uS/cm
GN-AP-MW-36V	9/22/2021 9:08	DO	0.24	mg/L
GN-AP-MW-36V	9/22/2021 9:08	Depth to Water Detail	48.45	ft
GN-AP-MW-36V	9/22/2021 9:08	Oxidation Reduction Potention	-291.89	mv
GN-AP-MW-36V	9/22/2021 9:08	pH	7.91	SU
GN-AP-MW-36V	9/22/2021 9:08	Temperature	20.86	C
GN-AP-MW-36V	9/22/2021 9:08	Turbidity	1.52	NTU
GN-AP-MW-36V	9/22/2021 9:13	Conductivity	1344.24	uS/cm
GN-AP-MW-36V	9/22/2021 9:13	DO	0.25	mg/L
GN-AP-MW-36V	9/22/2021 9:13	Depth to Water Detail	49.18	ft
GN-AP-MW-36V	9/22/2021 9:13	Oxidation Reduction Potention	-291.83	mv
GN-AP-MW-36V	9/22/2021 9:13	pH	7.94	SU
GN-AP-MW-36V	9/22/2021 9:13	Temperature	20.87	C
GN-AP-MW-36V	9/22/2021 9:13	Turbidity	1.48	NTU
GN-AP-MW-36V	9/22/2021 9:18	Conductivity	1340.03	uS/cm
GN-AP-MW-36V	9/22/2021 9:18	DO	0.5	mg/L
GN-AP-MW-36V	9/22/2021 9:18	Depth to Water Detail	49.39	ft
GN-AP-MW-36V	9/22/2021 9:18	Oxidation Reduction Potention	-283.85	mv
GN-AP-MW-36V	9/22/2021 9:18	pH	7.94	SU
GN-AP-MW-36V	9/22/2021 9:18	Temperature	21.22	C
GN-AP-MW-36V	9/22/2021 9:18	Turbidity	1.46	NTU
GN-AP-MW-36V	9/22/2021 9:23	Conductivity	1336.61	uS/cm
GN-AP-MW-36V	9/22/2021 9:23	DO	0.54	mg/L
GN-AP-MW-36V	9/22/2021 9:23	Depth to Water Detail	49.6	ft
GN-AP-MW-36V	9/22/2021 9:23	Oxidation Reduction Potention	-282.93	mv
GN-AP-MW-36V	9/22/2021 9:23	pH	7.98	SU
GN-AP-MW-36V	9/22/2021 9:23	Temperature	21.34	C
GN-AP-MW-36V	9/22/2021 9:23	Turbidity	1.61	NTU
GN-AP-MW-36V	9/22/2021 9:28	Conductivity	1334.68	uS/cm
GN-AP-MW-36V	9/22/2021 9:28	DO	0.62	mg/L
GN-AP-MW-36V	9/22/2021 9:28	Depth to Water Detail	49.78	ft
GN-AP-MW-36V	9/22/2021 9:28	Oxidation Reduction Potention	-281.51	mv

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-36V	9/22/2021 9:28	pH	7.97	SU
GN-AP-MW-36V	9/22/2021 9:28	Temperature	21.42	C
GN-AP-MW-36V	9/22/2021 9:28	Turbidity	1.63	NTU
GN-AP-MW-36V	9/22/2021 9:33	Conductivity	1333.33	uS/cm
GN-AP-MW-36V	9/22/2021 9:33	DO	0.69	mg/L
GN-AP-MW-36V	9/22/2021 9:33	Depth to Water Detail	49.99	ft
GN-AP-MW-36V	9/22/2021 9:33	Oxidation Reduction Potention	-279.93	mv
GN-AP-MW-36V	9/22/2021 9:33	pH	7.93	SU
GN-AP-MW-36V	9/22/2021 9:33	Temperature	21.65	C
GN-AP-MW-36V	9/22/2021 9:33	Turbidity	1.7	NTU
GN-AP-MW-36V	9/22/2021 9:38	Conductivity	1332.23	uS/cm
GN-AP-MW-36V	9/22/2021 9:38	DO	0.72	mg/L
GN-AP-MW-36V	9/22/2021 9:38	Depth to Water Detail	50.13	ft
GN-AP-MW-36V	9/22/2021 9:38	Oxidation Reduction Potention	-280.49	mv
GN-AP-MW-36V	9/22/2021 9:38	pH	7.99	SU
GN-AP-MW-36V	9/22/2021 9:38	Temperature	22.32	C
GN-AP-MW-36V	9/22/2021 9:38	Turbidity	1.75	NTU
GN-AP-MW-36V	9/22/2021 9:43	Conductivity	1331.66	uS/cm
GN-AP-MW-36V	9/22/2021 9:43	DO	0.74	mg/L
GN-AP-MW-36V	9/22/2021 9:43	Depth to Water Detail	50.31	ft
GN-AP-MW-36V	9/22/2021 9:43	Oxidation Reduction Potention	-279.26	mv
GN-AP-MW-36V	9/22/2021 9:43	pH	7.94	SU
GN-AP-MW-36V	9/22/2021 9:43	Temperature	22.21	C
GN-AP-MW-36V	9/22/2021 9:43	Turbidity	1.67	NTU
GN-AP-MW-36V	9/22/2021 9:48	Conductivity	1331.15	uS/cm
GN-AP-MW-36V	9/22/2021 9:48	DO	0.77	mg/L
GN-AP-MW-36V	9/22/2021 9:48	Depth to Water Detail	50.46	ft
GN-AP-MW-36V	9/22/2021 9:48	Oxidation Reduction Potention	-279.2	mv
GN-AP-MW-36V	9/22/2021 9:48	pH	7.93	SU
GN-AP-MW-36V	9/22/2021 9:48	Temperature	22.07	C
GN-AP-MW-36V	9/22/2021 9:48	Turbidity	1.41	NTU
GN-AP-MW-36V	9/22/2021 9:53	Conductivity	1329.83	uS/cm
GN-AP-MW-36V	9/22/2021 9:53	DO	0.77	mg/L
GN-AP-MW-36V	9/22/2021 9:53	Depth to Water Detail	50.6	ft
GN-AP-MW-36V	9/22/2021 9:53	Oxidation Reduction Potention	-279.67	mv
GN-AP-MW-36V	9/22/2021 9:53	pH	7.93	SU
GN-AP-MW-36V	9/22/2021 9:53	Temperature	21.96	C
GN-AP-MW-36V	9/22/2021 9:53	Turbidity	1.51	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-38	9/21/2021 8:17	Conductivity	199.29	uS/cm
GN-AP-MW-38	9/21/2021 8:17	DO	4.16	mg/L
GN-AP-MW-38	9/21/2021 8:17	Depth to Water Detail	7.59	ft
GN-AP-MW-38	9/21/2021 8:17	Oxidation Reduction Potention	44.78	mv
GN-AP-MW-38	9/21/2021 8:17	pH	7.67	SU
GN-AP-MW-38	9/21/2021 8:17	Temperature	19.37	C
GN-AP-MW-38	9/21/2021 8:17	Turbidity	3.02	NTU
GN-AP-MW-38	9/21/2021 8:22	Conductivity	198.29	uS/cm
GN-AP-MW-38	9/21/2021 8:22	DO	4.16	mg/L
GN-AP-MW-38	9/21/2021 8:22	Depth to Water Detail	7.61	ft
GN-AP-MW-38	9/21/2021 8:22	Oxidation Reduction Potention	28.88	mv
GN-AP-MW-38	9/21/2021 8:22	pH	7.78	SU
GN-AP-MW-38	9/21/2021 8:22	Temperature	19.19	C
GN-AP-MW-38	9/21/2021 8:22	Turbidity	6.22	NTU
GN-AP-MW-38	9/21/2021 8:27	Conductivity	200	uS/cm
GN-AP-MW-38	9/21/2021 8:27	DO	4.13	mg/L
GN-AP-MW-38	9/21/2021 8:27	Depth to Water Detail	7.61	ft
GN-AP-MW-38	9/21/2021 8:27	Oxidation Reduction Potention	15.83	mv
GN-AP-MW-38	9/21/2021 8:27	pH	7.86	SU
GN-AP-MW-38	9/21/2021 8:27	Temperature	19.17	C
GN-AP-MW-38	9/21/2021 8:27	Turbidity	6.52	NTU
GN-AP-MW-38	9/21/2021 8:32	Conductivity	201.23	uS/cm
GN-AP-MW-38	9/21/2021 8:32	DO	4.13	mg/L
GN-AP-MW-38	9/21/2021 8:32	Depth to Water Detail	7.61	ft
GN-AP-MW-38	9/21/2021 8:32	Oxidation Reduction Potention	10.08	mv
GN-AP-MW-38	9/21/2021 8:32	pH	7.85	SU
GN-AP-MW-38	9/21/2021 8:32	Temperature	19.23	C
GN-AP-MW-38	9/21/2021 8:32	Turbidity	6.84	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-39	9/21/2021 10:40	Conductivity	234.28	uS/cm
GN-AP-MW-39	9/21/2021 10:40	DO	0.37	mg/L
GN-AP-MW-39	9/21/2021 10:40	Depth to Water Detail	19.91	ft
GN-AP-MW-39	9/21/2021 10:40	Oxidation Reduction Potention	-123.65	mv
GN-AP-MW-39	9/21/2021 10:40	pH	7.35	SU
GN-AP-MW-39	9/21/2021 10:40	Temperature	19.1	C
GN-AP-MW-39	9/21/2021 10:40	Turbidity	3.41	NTU
GN-AP-MW-39	9/21/2021 10:45	Conductivity	234.42	uS/cm
GN-AP-MW-39	9/21/2021 10:45	DO	0.31	mg/L
GN-AP-MW-39	9/21/2021 10:45	Depth to Water Detail	19.91	ft
GN-AP-MW-39	9/21/2021 10:45	Oxidation Reduction Potention	-133.71	mv
GN-AP-MW-39	9/21/2021 10:45	pH	7.31	SU
GN-AP-MW-39	9/21/2021 10:45	Temperature	18.96	C
GN-AP-MW-39	9/21/2021 10:45	Turbidity	3.31	NTU
GN-AP-MW-39	9/21/2021 10:50	Conductivity	233.5	uS/cm
GN-AP-MW-39	9/21/2021 10:50	DO	0.3	mg/L
GN-AP-MW-39	9/21/2021 10:50	Depth to Water Detail	19.91	ft
GN-AP-MW-39	9/21/2021 10:50	Oxidation Reduction Potention	-137.53	mv
GN-AP-MW-39	9/21/2021 10:50	pH	7.31	SU
GN-AP-MW-39	9/21/2021 10:50	Temperature	19.15	C
GN-AP-MW-39	9/21/2021 10:50	Turbidity	2.27	NTU
GN-AP-MW-39	9/21/2021 10:55	Conductivity	231.06	uS/cm
GN-AP-MW-39	9/21/2021 10:55	DO	0.31	mg/L
GN-AP-MW-39	9/21/2021 10:55	Depth to Water Detail	19.91	ft
GN-AP-MW-39	9/21/2021 10:55	Oxidation Reduction Potention	-139.86	mv
GN-AP-MW-39	9/21/2021 10:55	pH	7.3	SU
GN-AP-MW-39	9/21/2021 10:55	Temperature	19.31	C
GN-AP-MW-39	9/21/2021 10:55	Turbidity	2.12	NTU
GN-AP-MW-40	9/21/2021 11:59	Conductivity	184.35	uS/cm

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-40	9/21/2021 11:59	DO	6.45	mg/L
GN-AP-MW-40	9/21/2021 11:59	Depth to Water Detail	17.06	ft
GN-AP-MW-40	9/21/2021 11:59	Oxidation Reduction Potention	23.69	mv
GN-AP-MW-40	9/21/2021 11:59	pH	7.16	SU
GN-AP-MW-40	9/21/2021 11:59	Temperature	19.52	C
GN-AP-MW-40	9/21/2021 11:59	Turbidity	5.87	NTU
GN-AP-MW-40	9/21/2021 12:04	Conductivity	184.95	uS/cm
GN-AP-MW-40	9/21/2021 12:04	DO	6.52	mg/L
GN-AP-MW-40	9/21/2021 12:04	Depth to Water Detail	17.06	ft
GN-AP-MW-40	9/21/2021 12:04	Oxidation Reduction Potention	31.57	mv
GN-AP-MW-40	9/21/2021 12:04	pH	6.99	SU
GN-AP-MW-40	9/21/2021 12:04	Temperature	19.44	C
GN-AP-MW-40	9/21/2021 12:04	Turbidity	5.59	NTU
GN-AP-MW-40	9/21/2021 12:09	Conductivity	185.15	uS/cm
GN-AP-MW-40	9/21/2021 12:09	DO	6.52	mg/L
GN-AP-MW-40	9/21/2021 12:09	Depth to Water Detail	17.06	ft
GN-AP-MW-40	9/21/2021 12:09	Oxidation Reduction Potention	35.27	mv
GN-AP-MW-40	9/21/2021 12:09	pH	7.15	SU
GN-AP-MW-40	9/21/2021 12:09	Temperature	19.61	C
GN-AP-MW-40	9/21/2021 12:09	Turbidity	4.56	NTU
GN-AP-MW-40	9/21/2021 12:14	Conductivity	185.2	uS/cm
GN-AP-MW-40	9/21/2021 12:14	DO	6.54	mg/L
GN-AP-MW-40	9/21/2021 12:14	Depth to Water Detail	17.06	ft
GN-AP-MW-40	9/21/2021 12:14	Oxidation Reduction Potention	38.02	mv
GN-AP-MW-40	9/21/2021 12:14	pH	7.12	SU
GN-AP-MW-40	9/21/2021 12:14	Temperature	19.66	C
GN-AP-MW-40	9/21/2021 12:14	Turbidity	3.97	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-41	9/21/2021 9:14	Conductivity	269.76	uS/cm
GN-AP-MW-41	9/21/2021 9:14	DO	3.49	mg/L
GN-AP-MW-41	9/21/2021 9:14	Depth to Water Detail	10.06	ft
GN-AP-MW-41	9/21/2021 9:14	Oxidation Reduction Potention	31.86	mv
GN-AP-MW-41	9/21/2021 9:14	pH	7.25	SU
GN-AP-MW-41	9/21/2021 9:14	Temperature	18.85	C
GN-AP-MW-41	9/21/2021 9:14	Turbidity	5.02	NTU
GN-AP-MW-41	9/21/2021 9:19	Conductivity	269.8	uS/cm
GN-AP-MW-41	9/21/2021 9:19	DO	3.46	mg/L
GN-AP-MW-41	9/21/2021 9:19	Depth to Water Detail	10.06	ft
GN-AP-MW-41	9/21/2021 9:19	Oxidation Reduction Potention	33.72	mv
GN-AP-MW-41	9/21/2021 9:19	pH	7.25	SU
GN-AP-MW-41	9/21/2021 9:19	Temperature	18.78	C
GN-AP-MW-41	9/21/2021 9:19	Turbidity	4.23	NTU
GN-AP-MW-41	9/21/2021 9:24	Conductivity	269.53	uS/cm
GN-AP-MW-41	9/21/2021 9:24	DO	3.46	mg/L
GN-AP-MW-41	9/21/2021 9:24	Depth to Water Detail	10.06	ft
GN-AP-MW-41	9/21/2021 9:24	Oxidation Reduction Potention	35.85	mv
GN-AP-MW-41	9/21/2021 9:24	pH	7.25	SU
GN-AP-MW-41	9/21/2021 9:24	Temperature	18.75	C
GN-AP-MW-41	9/21/2021 9:24	Turbidity	3.82	NTU
GN-AP-MW-41	9/21/2021 9:29	Conductivity	269.4	uS/cm
GN-AP-MW-41	9/21/2021 9:29	DO	3.48	mg/L
GN-AP-MW-41	9/21/2021 9:29	Depth to Water Detail	10.06	ft
GN-AP-MW-41	9/21/2021 9:29	Oxidation Reduction Potention	37.6	mv
GN-AP-MW-41	9/21/2021 9:29	pH	7.3	SU
GN-AP-MW-41	9/21/2021 9:29	Temperature	18.76	C
GN-AP-MW-41	9/21/2021 9:29	Turbidity	3.7	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-42	9/21/2021 13:20	Conductivity	51.76	uS/cm
GN-AP-MW-42	9/21/2021 13:20	DO	6.4	mg/L
GN-AP-MW-42	9/21/2021 13:20	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 13:20	Oxidation Reduction Potention	135	mv
GN-AP-MW-42	9/21/2021 13:20	pH	5.17	SU
GN-AP-MW-42	9/21/2021 13:20	Temperature	19.58	C
GN-AP-MW-42	9/21/2021 13:20	Turbidity	3.18	NTU
GN-AP-MW-42	9/21/2021 13:25	Conductivity	59.56	uS/cm
GN-AP-MW-42	9/21/2021 13:25	DO	6.24	mg/L
GN-AP-MW-42	9/21/2021 13:25	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 13:25	Oxidation Reduction Potention	148.44	mv
GN-AP-MW-42	9/21/2021 13:25	pH	5.05	SU
GN-AP-MW-42	9/21/2021 13:25	Temperature	19.74	C
GN-AP-MW-42	9/21/2021 13:25	Turbidity	2.92	NTU
GN-AP-MW-42	9/21/2021 13:30	Conductivity	80.06	uS/cm
GN-AP-MW-42	9/21/2021 13:30	DO	6.12	mg/L
GN-AP-MW-42	9/21/2021 13:30	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 13:30	Oxidation Reduction Potention	143	mv
GN-AP-MW-42	9/21/2021 13:30	pH	5.24	SU
GN-AP-MW-42	9/21/2021 13:30	Temperature	19.76	C
GN-AP-MW-42	9/21/2021 13:30	Turbidity	2.57	NTU
GN-AP-MW-42	9/21/2021 13:35	Conductivity	98.87	uS/cm
GN-AP-MW-42	9/21/2021 13:35	DO	6.28	mg/L
GN-AP-MW-42	9/21/2021 13:35	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 13:35	Oxidation Reduction Potention	142.96	mv
GN-AP-MW-42	9/21/2021 13:35	pH	5.4	SU
GN-AP-MW-42	9/21/2021 13:35	Temperature	19.54	C
GN-AP-MW-42	9/21/2021 13:35	Turbidity	2.61	NTU
GN-AP-MW-42	9/21/2021 13:40	Conductivity	112.15	uS/cm
GN-AP-MW-42	9/21/2021 13:40	DO	6.17	mg/L
GN-AP-MW-42	9/21/2021 13:40	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 13:40	Oxidation Reduction Potention	135.87	mv
GN-AP-MW-42	9/21/2021 13:40	pH	5.63	SU
GN-AP-MW-42	9/21/2021 13:40	Temperature	19.5	C
GN-AP-MW-42	9/21/2021 13:40	Turbidity	2.4	NTU
GN-AP-MW-42	9/21/2021 13:45	Conductivity	121.78	uS/cm
GN-AP-MW-42	9/21/2021 13:45	DO	6.1	mg/L
GN-AP-MW-42	9/21/2021 13:45	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 13:45	Oxidation Reduction Potention	130.6	mv
GN-AP-MW-42	9/21/2021 13:45	pH	5.75	SU
GN-AP-MW-42	9/21/2021 13:45	Temperature	19.72	C
GN-AP-MW-42	9/21/2021 13:45	Turbidity	2.48	NTU
GN-AP-MW-42	9/21/2021 13:50	Conductivity	129.18	uS/cm
GN-AP-MW-42	9/21/2021 13:50	DO	6.13	mg/L
GN-AP-MW-42	9/21/2021 13:50	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 13:50	Oxidation Reduction Potention	131.05	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-42	9/21/2021 13:50	pH	5.83	SU
GN-AP-MW-42	9/21/2021 13:50	Temperature	19.44	C
GN-AP-MW-42	9/21/2021 13:50	Turbidity	2.34	NTU
GN-AP-MW-42	9/21/2021 13:55	Conductivity	134.38	uS/cm
GN-AP-MW-42	9/21/2021 13:55	DO	6.13	mg/L
GN-AP-MW-42	9/21/2021 13:55	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 13:55	Oxidation Reduction Potention	128.61	mv
GN-AP-MW-42	9/21/2021 13:55	pH	5.89	SU
GN-AP-MW-42	9/21/2021 13:55	Temperature	19.39	C
GN-AP-MW-42	9/21/2021 13:55	Turbidity	2.24	NTU
GN-AP-MW-42	9/21/2021 14:00	Conductivity	138.64	uS/cm
GN-AP-MW-42	9/21/2021 14:00	DO	6.1	mg/L
GN-AP-MW-42	9/21/2021 14:00	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 14:00	Oxidation Reduction Potention	125.59	mv
GN-AP-MW-42	9/21/2021 14:00	pH	5.91	SU
GN-AP-MW-42	9/21/2021 14:00	Temperature	19.54	C
GN-AP-MW-42	9/21/2021 14:00	Turbidity	2.29	NTU
GN-AP-MW-42	9/21/2021 14:05	Conductivity	142.61	uS/cm
GN-AP-MW-42	9/21/2021 14:05	DO	6.07	mg/L
GN-AP-MW-42	9/21/2021 14:05	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 14:05	Oxidation Reduction Potention	120.96	mv
GN-AP-MW-42	9/21/2021 14:05	pH	6.03	SU
GN-AP-MW-42	9/21/2021 14:05	Temperature	19.64	C
GN-AP-MW-42	9/21/2021 14:05	Turbidity	2.23	NTU
GN-AP-MW-42	9/21/2021 14:10	Conductivity	145.14	uS/cm
GN-AP-MW-42	9/21/2021 14:10	DO	5.99	mg/L
GN-AP-MW-42	9/21/2021 14:10	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 14:10	Oxidation Reduction Potention	122.07	mv
GN-AP-MW-42	9/21/2021 14:10	pH	6.07	SU
GN-AP-MW-42	9/21/2021 14:10	Temperature	19.72	C
GN-AP-MW-42	9/21/2021 14:10	Turbidity	2.24	NTU
GN-AP-MW-42	9/21/2021 14:15	Conductivity	148.34	uS/cm
GN-AP-MW-42	9/21/2021 14:15	DO	6.07	mg/L
GN-AP-MW-42	9/21/2021 14:15	Depth to Water Detail	35.92	ft
GN-AP-MW-42	9/21/2021 14:15	Oxidation Reduction Potention	121.48	mv
GN-AP-MW-42	9/21/2021 14:15	pH	6.07	SU
GN-AP-MW-42	9/21/2021 14:15	Temperature	19.12	C
GN-AP-MW-42	9/21/2021 14:15	Turbidity	2.19	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-8	9/21/2021 14:38	Conductivity	437.78	uS/cm
GN-AP-MW-8	9/21/2021 14:38	DO	1.16	mg/L
GN-AP-MW-8	9/21/2021 14:38	Depth to Water Detail	15.55	ft
GN-AP-MW-8	9/21/2021 14:38	Oxidation Reduction Potention	50.92	mv
GN-AP-MW-8	9/21/2021 14:38	pH	7.25	SU
GN-AP-MW-8	9/21/2021 14:38	Temperature	24.02	C
GN-AP-MW-8	9/21/2021 14:38	Turbidity	2.16	NTU
GN-AP-MW-8	9/21/2021 14:49	Conductivity	434.13	uS/cm
GN-AP-MW-8	9/21/2021 14:49	DO	0.91	mg/L
GN-AP-MW-8	9/21/2021 14:49	Depth to Water Detail	17.02	ft
GN-AP-MW-8	9/21/2021 14:49	Oxidation Reduction Potention	34.98	mv
GN-AP-MW-8	9/21/2021 14:49	pH	7.3	SU
GN-AP-MW-8	9/21/2021 14:49	Temperature	23.66	C
GN-AP-MW-8	9/21/2021 14:49	Turbidity	1.57	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-9	9/21/2021 9:46	Conductivity	372.93	uS/cm
GN-AP-MW-9	9/21/2021 9:46	DO	2.42	mg/L
GN-AP-MW-9	9/21/2021 9:46	Depth to Water Detail	8.94	ft
GN-AP-MW-9	9/21/2021 9:46	Oxidation Reduction Potention	72.03	mv
GN-AP-MW-9	9/21/2021 9:46	pH	7.73	SU
GN-AP-MW-9	9/21/2021 9:46	Temperature	24.44	C
GN-AP-MW-9	9/21/2021 9:46	Turbidity	1.36	NTU
GN-AP-MW-9	9/21/2021 10:02	Conductivity	370.01	uS/cm
GN-AP-MW-9	9/21/2021 10:02	DO	2.4	mg/L
GN-AP-MW-9	9/21/2021 10:02	Depth to Water Detail	11.14	ft
GN-AP-MW-9	9/21/2021 10:02	Oxidation Reduction Potention	57.98	mv
GN-AP-MW-9	9/21/2021 10:02	pH	7.72	SU
GN-AP-MW-9	9/21/2021 10:02	Temperature	24.21	C
GN-AP-MW-9	9/21/2021 10:02	Turbidity	1.12	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-10	9/21/2021 11:27	Conductivity	309.25	uS/cm
GN-AP-MW-10	9/21/2021 11:27	DO	0.62	mg/L
GN-AP-MW-10	9/21/2021 11:27	Depth to Water Detail	7.11	ft
GN-AP-MW-10	9/21/2021 11:27	Oxidation Reduction Potention	29.61	mv
GN-AP-MW-10	9/21/2021 11:27	pH	6.95	SU
GN-AP-MW-10	9/21/2021 11:27	Temperature	22.85	C
GN-AP-MW-10	9/21/2021 11:27	Turbidity	0.32	NTU
GN-AP-MW-10	9/21/2021 11:32	Conductivity	307.97	uS/cm
GN-AP-MW-10	9/21/2021 11:32	DO	0.51	mg/L
GN-AP-MW-10	9/21/2021 11:32	Depth to Water Detail	7.38	ft
GN-AP-MW-10	9/21/2021 11:32	Oxidation Reduction Potention	32.45	mv
GN-AP-MW-10	9/21/2021 11:32	pH	6.94	SU
GN-AP-MW-10	9/21/2021 11:32	Temperature	22.82	C
GN-AP-MW-10	9/21/2021 11:32	Turbidity	0.41	NTU
GN-AP-MW-10	9/21/2021 11:37	Conductivity	306.28	uS/cm
GN-AP-MW-10	9/21/2021 11:37	DO	0.57	mg/L
GN-AP-MW-10	9/21/2021 11:37	Depth to Water Detail	7.46	ft
GN-AP-MW-10	9/21/2021 11:37	Oxidation Reduction Potention	32.66	mv
GN-AP-MW-10	9/21/2021 11:37	pH	6.98	SU
GN-AP-MW-10	9/21/2021 11:37	Temperature	22.47	C
GN-AP-MW-10	9/21/2021 11:37	Turbidity	0.57	NTU
GN-AP-MW-10	9/21/2021 11:42	Conductivity	306.13	uS/cm
GN-AP-MW-10	9/21/2021 11:42	DO	0.69	mg/L
GN-AP-MW-10	9/21/2021 11:42	Depth to Water Detail	7.58	ft
GN-AP-MW-10	9/21/2021 11:42	Oxidation Reduction Potention	32.62	mv
GN-AP-MW-10	9/21/2021 11:42	pH	7.02	SU
GN-AP-MW-10	9/21/2021 11:42	Temperature	22.45	C
GN-AP-MW-10	9/21/2021 11:42	Turbidity	0.53	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-11	9/21/2021 12:35	Conductivity	334.16	uS/cm
GN-AP-MW-11	9/21/2021 12:35	DO	1.23	mg/L
GN-AP-MW-11	9/21/2021 12:35	Depth to Water Detail	9.31	ft
GN-AP-MW-11	9/21/2021 12:35	Oxidation Reduction Potention	40.92	mv
GN-AP-MW-11	9/21/2021 12:35	pH	7.17	SU
GN-AP-MW-11	9/21/2021 12:35	Temperature	21.81	C
GN-AP-MW-11	9/21/2021 12:35	Turbidity	0.56	NTU
GN-AP-MW-11	9/21/2021 12:40	Conductivity	332.44	uS/cm
GN-AP-MW-11	9/21/2021 12:40	DO	1.14	mg/L
GN-AP-MW-11	9/21/2021 12:40	Depth to Water Detail	12.27	ft
GN-AP-MW-11	9/21/2021 12:40	Oxidation Reduction Potention	41.19	mv
GN-AP-MW-11	9/21/2021 12:40	pH	7.14	SU
GN-AP-MW-11	9/21/2021 12:40	Temperature	21.76	C
GN-AP-MW-11	9/21/2021 12:40	Turbidity	0.71	NTU
GN-AP-MW-11	9/21/2021 12:45	Conductivity	336.37	uS/cm
GN-AP-MW-11	9/21/2021 12:45	DO	1.45	mg/L
GN-AP-MW-11	9/21/2021 12:45	Depth to Water Detail	13.11	ft
GN-AP-MW-11	9/21/2021 12:45	Oxidation Reduction Potention	39.14	mv
GN-AP-MW-11	9/21/2021 12:45	pH	7.17	SU
GN-AP-MW-11	9/21/2021 12:45	Temperature	21.79	C
GN-AP-MW-11	9/21/2021 12:45	Turbidity	0.94	NTU
GN-AP-MW-11	9/21/2021 12:50	Conductivity	337.58	uS/cm
GN-AP-MW-11	9/21/2021 12:50	DO	1.76	mg/L
GN-AP-MW-11	9/21/2021 12:50	Depth to Water Detail	14.03	ft
GN-AP-MW-11	9/21/2021 12:50	Oxidation Reduction Potention	36.11	mv
GN-AP-MW-11	9/21/2021 12:50	pH	7.24	SU
GN-AP-MW-11	9/21/2021 12:50	Temperature	21.76	C
GN-AP-MW-11	9/21/2021 12:50	Turbidity	1.26	NTU
GN-AP-MW-11	9/21/2021 12:55	Conductivity	333.12	uS/cm
GN-AP-MW-11	9/21/2021 12:55	DO	9.88	mg/L
GN-AP-MW-11	9/21/2021 12:55	Depth to Water Detail	17.51	ft
GN-AP-MW-11	9/21/2021 12:55	Oxidation Reduction Potention	34.87	mv
GN-AP-MW-11	9/21/2021 12:55	pH	7.35	SU
GN-AP-MW-11	9/21/2021 12:55	Temperature	20.81	C
GN-AP-MW-11	9/21/2021 12:55	Turbidity	0.91	NTU
GN-AP-MW-11	9/21/2021 13:00	Conductivity	325.1	uS/cm
GN-AP-MW-11	9/21/2021 13:00	DO	6.46	mg/L
GN-AP-MW-11	9/21/2021 13:00	Depth to Water Detail	17.51	ft
GN-AP-MW-11	9/21/2021 13:00	Oxidation Reduction Potention	39.89	mv
GN-AP-MW-11	9/21/2021 13:00	pH	7.29	SU
GN-AP-MW-11	9/21/2021 13:00	Temperature	22.1	C
GN-AP-MW-11	9/21/2021 13:00	Turbidity	1.27	NTU
GN-AP-MW-11	9/21/2021 13:05	Conductivity	330.72	uS/cm
GN-AP-MW-11	9/21/2021 13:05	DO	5.88	mg/L
GN-AP-MW-11	9/21/2021 13:05	Depth to Water Detail	17.51	ft
GN-AP-MW-11	9/21/2021 13:05	Oxidation Reduction Potention	34.52	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-11	9/21/2021 13:05	pH	7.44	SU
GN-AP-MW-11	9/21/2021 13:05	Temperature	21.81	C
GN-AP-MW-11	9/21/2021 13:05	Turbidity	4.38	NTU
GN-AP-MW-11	9/21/2021 13:10	Conductivity	341.97	uS/cm
GN-AP-MW-11	9/21/2021 13:10	DO	6.03	mg/L
GN-AP-MW-11	9/21/2021 13:10	Depth to Water Detail	17.51	ft
GN-AP-MW-11	9/21/2021 13:10	Oxidation Reduction Potention	30.2	mv
GN-AP-MW-11	9/21/2021 13:10	pH	7.58	SU
GN-AP-MW-11	9/21/2021 13:10	Temperature	21.92	C
GN-AP-MW-11	9/21/2021 13:10	Turbidity	1.86	NTU
GN-AP-MW-11	9/21/2021 13:15	Conductivity	342.25	uS/cm
GN-AP-MW-11	9/21/2021 13:15	DO	5.93	mg/L
GN-AP-MW-11	9/21/2021 13:15	Depth to Water Detail	17.51	ft
GN-AP-MW-11	9/21/2021 13:15	Oxidation Reduction Potention	29.62	mv
GN-AP-MW-11	9/21/2021 13:15	pH	7.64	SU
GN-AP-MW-11	9/21/2021 13:15	Temperature	21.86	C
GN-AP-MW-11	9/21/2021 13:15	Turbidity	4.64	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-12	9/22/2021 9:10	Conductivity	547.25	uS/cm
GN-AP-MW-12	9/22/2021 9:10	DO	0.16	mg/L
GN-AP-MW-12	9/22/2021 9:10	Depth to Water Detail	9.69	ft
GN-AP-MW-12	9/22/2021 9:10	Oxidation Reduction Potention	129.6	mv
GN-AP-MW-12	9/22/2021 9:10	pH	7.49	SU
GN-AP-MW-12	9/22/2021 9:10	Temperature	21.08	C
GN-AP-MW-12	9/22/2021 9:10	Turbidity	1.04	NTU
GN-AP-MW-12	9/22/2021 9:15	Conductivity	544.45	uS/cm
GN-AP-MW-12	9/22/2021 9:15	DO	0.08	mg/L
GN-AP-MW-12	9/22/2021 9:15	Depth to Water Detail	13.21	ft
GN-AP-MW-12	9/22/2021 9:15	Oxidation Reduction Potention	120.97	mv
GN-AP-MW-12	9/22/2021 9:15	pH	7.47	SU
GN-AP-MW-12	9/22/2021 9:15	Temperature	20.98	C
GN-AP-MW-12	9/22/2021 9:15	Turbidity	2.59	NTU
GN-AP-MW-12	9/22/2021 9:20	Conductivity	544.19	uS/cm
GN-AP-MW-12	9/22/2021 9:20	DO	0.17	mg/L
GN-AP-MW-12	9/22/2021 9:20	Depth to Water Detail	16.71	ft
GN-AP-MW-12	9/22/2021 9:20	Oxidation Reduction Potention	111.22	mv
GN-AP-MW-12	9/22/2021 9:20	pH	7.48	SU
GN-AP-MW-12	9/22/2021 9:20	Temperature	20.84	C
GN-AP-MW-12	9/22/2021 9:20	Turbidity	1.3	NTU
GN-AP-MW-12	9/22/2021 9:25	Conductivity	541.88	uS/cm
GN-AP-MW-12	9/22/2021 9:25	DO	0.33	mg/L
GN-AP-MW-12	9/22/2021 9:25	Depth to Water Detail	19.56	ft
GN-AP-MW-12	9/22/2021 9:25	Oxidation Reduction Potention	104.96	mv
GN-AP-MW-12	9/22/2021 9:25	pH	7.49	SU
GN-AP-MW-12	9/22/2021 9:25	Temperature	20.73	C
GN-AP-MW-12	9/22/2021 9:25	Turbidity	1.48	NTU
GN-AP-MW-12	9/22/2021 9:30	Conductivity	541.32	uS/cm
GN-AP-MW-12	9/22/2021 9:30	DO	0.35	mg/L
GN-AP-MW-12	9/22/2021 9:30	Depth to Water Detail	22.68	ft
GN-AP-MW-12	9/22/2021 9:30	Oxidation Reduction Potention	99.4	mv
GN-AP-MW-12	9/22/2021 9:30	pH	7.5	SU
GN-AP-MW-12	9/22/2021 9:30	Temperature	20.64	C
GN-AP-MW-12	9/22/2021 9:30	Turbidity	1.84	NTU
GN-AP-MW-12	9/22/2021 9:35	Conductivity	545.43	uS/cm
GN-AP-MW-12	9/22/2021 9:35	DO	0.53	mg/L
GN-AP-MW-12	9/22/2021 9:35	Depth to Water Detail	22.68	ft
GN-AP-MW-12	9/22/2021 9:35	Oxidation Reduction Potention	96	mv
GN-AP-MW-12	9/22/2021 9:35	pH	7.5	SU
GN-AP-MW-12	9/22/2021 9:35	Temperature	21.87	C
GN-AP-MW-12	9/22/2021 9:35	Turbidity	3.13	NTU
GN-AP-MW-12	9/22/2021 9:40	Conductivity	544.8	uS/cm
GN-AP-MW-12	9/22/2021 9:40	DO	0.6	mg/L
GN-AP-MW-12	9/22/2021 9:40	Depth to Water Detail	22.68	ft
GN-AP-MW-12	9/22/2021 9:40	Oxidation Reduction Potention	92.32	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-12	9/22/2021 9:40	pH	7.49	SU
GN-AP-MW-12	9/22/2021 9:40	Temperature	22.98	C
GN-AP-MW-12	9/22/2021 9:40	Turbidity	2.73	NTU
GN-AP-MW-12	9/22/2021 9:45	Conductivity	544.05	uS/cm
GN-AP-MW-12	9/22/2021 9:45	DO	0.5	mg/L
GN-AP-MW-12	9/22/2021 9:45	Depth to Water Detail	22.68	ft
GN-AP-MW-12	9/22/2021 9:45	Oxidation Reduction Potention	89.58	mv
GN-AP-MW-12	9/22/2021 9:45	pH	7.48	SU
GN-AP-MW-12	9/22/2021 9:45	Temperature	22.8	C
GN-AP-MW-12	9/22/2021 9:45	Turbidity	2	NTU

**Alabama Power Company
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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-13	9/22/2021 10:56	Conductivity	354.6	uS/cm
GN-AP-MW-13	9/22/2021 10:56	DO	1.64	mg/L
GN-AP-MW-13	9/22/2021 10:56	Depth to Water Detail	4.23	ft
GN-AP-MW-13	9/22/2021 10:56	Oxidation Reduction Potention	58.86	mv
GN-AP-MW-13	9/22/2021 10:56	pH	7.6	SU
GN-AP-MW-13	9/22/2021 10:56	Temperature	22.22	C
GN-AP-MW-13	9/22/2021 10:56	Turbidity	2.22	NTU
GN-AP-MW-13	9/22/2021 11:01	Conductivity	350.85	uS/cm
GN-AP-MW-13	9/22/2021 11:01	DO	1.54	mg/L
GN-AP-MW-13	9/22/2021 11:01	Depth to Water Detail	5.31	ft
GN-AP-MW-13	9/22/2021 11:01	Oxidation Reduction Potention	57.2	mv
GN-AP-MW-13	9/22/2021 11:01	pH	7.58	SU
GN-AP-MW-13	9/22/2021 11:01	Temperature	21.92	C
GN-AP-MW-13	9/22/2021 11:01	Turbidity	2.18	NTU
GN-AP-MW-13	9/22/2021 11:06	Conductivity	352.67	uS/cm
GN-AP-MW-13	9/22/2021 11:06	DO	1.9	mg/L
GN-AP-MW-13	9/22/2021 11:06	Depth to Water Detail	5.49	ft
GN-AP-MW-13	9/22/2021 11:06	Oxidation Reduction Potention	51.8	mv
GN-AP-MW-13	9/22/2021 11:06	pH	7.62	SU
GN-AP-MW-13	9/22/2021 11:06	Temperature	22.55	C
GN-AP-MW-13	9/22/2021 11:06	Turbidity	1.25	NTU
GN-AP-MW-13	9/22/2021 11:11	Conductivity	354.85	uS/cm
GN-AP-MW-13	9/22/2021 11:11	DO	2.09	mg/L
GN-AP-MW-13	9/22/2021 11:11	Depth to Water Detail	5.57	ft
GN-AP-MW-13	9/22/2021 11:11	Oxidation Reduction Potention	48.75	mv
GN-AP-MW-13	9/22/2021 11:11	pH	7.61	SU
GN-AP-MW-13	9/22/2021 11:11	Temperature	22.68	C
GN-AP-MW-13	9/22/2021 11:11	Turbidity	0.99	NTU
GN-AP-MW-13	9/22/2021 11:16	Conductivity	354.33	uS/cm
GN-AP-MW-13	9/22/2021 11:16	DO	2.12	mg/L
GN-AP-MW-13	9/22/2021 11:16	Depth to Water Detail	5.6	ft
GN-AP-MW-13	9/22/2021 11:16	Oxidation Reduction Potention	46.19	mv
GN-AP-MW-13	9/22/2021 11:16	pH	7.61	SU
GN-AP-MW-13	9/22/2021 11:16	Temperature	22.84	C
GN-AP-MW-13	9/22/2021 11:16	Turbidity	1.18	NTU
GN-AP-MW-13	9/22/2021 11:21	Conductivity	352.92	uS/cm
GN-AP-MW-13	9/22/2021 11:21	DO	1.96	mg/L
GN-AP-MW-13	9/22/2021 11:21	Depth to Water Detail	5.63	ft
GN-AP-MW-13	9/22/2021 11:21	Oxidation Reduction Potention	44.38	mv
GN-AP-MW-13	9/22/2021 11:21	pH	7.59	SU
GN-AP-MW-13	9/22/2021 11:21	Temperature	22.65	C
GN-AP-MW-13	9/22/2021 11:21	Turbidity	1.03	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-14	9/22/2021 12:46	Conductivity	430.9	uS/cm
GN-AP-MW-14	9/22/2021 12:46	DO	0.23	mg/L
GN-AP-MW-14	9/22/2021 12:46	Depth to Water Detail	27.96	ft
GN-AP-MW-14	9/22/2021 12:46	Oxidation Reduction Potention	35.14	mv
GN-AP-MW-14	9/22/2021 12:46	pH	7.42	SU
GN-AP-MW-14	9/22/2021 12:46	Temperature	21.53	C
GN-AP-MW-14	9/22/2021 12:46	Turbidity	0.56	NTU
GN-AP-MW-14	9/22/2021 12:51	Conductivity	430.97	uS/cm
GN-AP-MW-14	9/22/2021 12:51	DO	0.17	mg/L
GN-AP-MW-14	9/22/2021 12:51	Depth to Water Detail	28.13	ft
GN-AP-MW-14	9/22/2021 12:51	Oxidation Reduction Potention	27.17	mv
GN-AP-MW-14	9/22/2021 12:51	pH	7.48	SU
GN-AP-MW-14	9/22/2021 12:51	Temperature	21.54	C
GN-AP-MW-14	9/22/2021 12:51	Turbidity	0.47	NTU
GN-AP-MW-14	9/22/2021 12:56	Conductivity	432.27	uS/cm
GN-AP-MW-14	9/22/2021 12:56	DO	0.13	mg/L
GN-AP-MW-14	9/22/2021 12:56	Depth to Water Detail	28.26	ft
GN-AP-MW-14	9/22/2021 12:56	Oxidation Reduction Potention	19.7	mv
GN-AP-MW-14	9/22/2021 12:56	pH	7.5	SU
GN-AP-MW-14	9/22/2021 12:56	Temperature	21.36	C
GN-AP-MW-14	9/22/2021 12:56	Turbidity	0.36	NTU
GN-AP-MW-14	9/22/2021 13:01	Conductivity	435.61	uS/cm
GN-AP-MW-14	9/22/2021 13:01	DO	0.14	mg/L
GN-AP-MW-14	9/22/2021 13:01	Depth to Water Detail	28.32	ft
GN-AP-MW-14	9/22/2021 13:01	Oxidation Reduction Potention	15.24	mv
GN-AP-MW-14	9/22/2021 13:01	pH	7.5	SU
GN-AP-MW-14	9/22/2021 13:01	Temperature	21.21	C
GN-AP-MW-14	9/22/2021 13:01	Turbidity	0.57	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-3	9/27/2021 12:23	Conductivity	265.86	uS/cm
GN-AP-MW-3	9/27/2021 12:23	DO	4.28	mg/L
GN-AP-MW-3	9/27/2021 12:23	Depth to Water Detail	18	ft
GN-AP-MW-3	9/27/2021 12:23	Oxidation Reduction Potention	16.35	mv
GN-AP-MW-3	9/27/2021 12:23	pH	7.77	SU
GN-AP-MW-3	9/27/2021 12:23	Temperature	24.37	C
GN-AP-MW-3	9/27/2021 12:23	Turbidity	2.1	NTU
GN-AP-MW-3	9/27/2021 12:28	Conductivity	266.22	uS/cm
GN-AP-MW-3	9/27/2021 12:28	DO	5.89	mg/L
GN-AP-MW-3	9/27/2021 12:28	Depth to Water Detail	18.39	ft
GN-AP-MW-3	9/27/2021 12:28	Oxidation Reduction Potention	20.59	mv
GN-AP-MW-3	9/27/2021 12:28	pH	7.76	SU
GN-AP-MW-3	9/27/2021 12:28	Temperature	24.48	C
GN-AP-MW-3	9/27/2021 12:28	Turbidity	1.98	NTU
GN-AP-MW-3	9/27/2021 12:33	Conductivity	57.52	uS/cm
GN-AP-MW-3	9/27/2021 12:33	DO	6.34	mg/L
GN-AP-MW-3	9/27/2021 12:33	Depth to Water Detail	18.78	ft
GN-AP-MW-3	9/27/2021 12:33	Oxidation Reduction Potention	23.53	mv
GN-AP-MW-3	9/27/2021 12:33	pH	7.78	SU
GN-AP-MW-3	9/27/2021 12:33	Temperature	23.43	C
GN-AP-MW-3	9/27/2021 12:33	Turbidity	2.03	NTU
GN-AP-MW-3	9/27/2021 12:38	Conductivity	262.96	uS/cm
GN-AP-MW-3	9/27/2021 12:38	DO	5.79	mg/L
GN-AP-MW-3	9/27/2021 12:38	Depth to Water Detail	19.01	ft
GN-AP-MW-3	9/27/2021 12:38	Oxidation Reduction Potention	29.32	mv
GN-AP-MW-3	9/27/2021 12:38	pH	7.7	SU
GN-AP-MW-3	9/27/2021 12:38	Temperature	24.15	C
GN-AP-MW-3	9/27/2021 12:38	Turbidity	1.87	NTU
GN-AP-MW-3	9/27/2021 12:43	Conductivity	263.08	uS/cm
GN-AP-MW-3	9/27/2021 12:43	DO	7.05	mg/L
GN-AP-MW-3	9/27/2021 12:43	Depth to Water Detail	19.11	ft
GN-AP-MW-3	9/27/2021 12:43	Oxidation Reduction Potention	31.5	mv
GN-AP-MW-3	9/27/2021 12:43	pH	7.7	SU
GN-AP-MW-3	9/27/2021 12:43	Temperature	24.08	C
GN-AP-MW-3	9/27/2021 12:43	Turbidity	1.98	NTU
GN-AP-MW-3	9/27/2021 12:48	Conductivity	248.34	uS/cm
GN-AP-MW-3	9/27/2021 12:48	DO	4.83	mg/L
GN-AP-MW-3	9/27/2021 12:48	Depth to Water Detail	19.24	ft
GN-AP-MW-3	9/27/2021 12:48	Oxidation Reduction Potention	30.98	mv
GN-AP-MW-3	9/27/2021 12:48	pH	7.83	SU
GN-AP-MW-3	9/27/2021 12:48	Temperature	24.54	C
GN-AP-MW-3	9/27/2021 12:48	Turbidity	2.18	NTU
GN-AP-MW-3	9/27/2021 12:53	Conductivity	262	uS/cm
GN-AP-MW-3	9/27/2021 12:53	DO	5.67	mg/L
GN-AP-MW-3	9/27/2021 12:53	Depth to Water Detail	19.46	ft
GN-AP-MW-3	9/27/2021 12:53	Oxidation Reduction Potention	38.52	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-3	9/27/2021 12:53	pH	7.75	SU
GN-AP-MW-3	9/27/2021 12:53	Temperature	23.63	C
GN-AP-MW-3	9/27/2021 12:53	Turbidity	2.07	NTU
GN-AP-MW-3	9/27/2021 12:58	Conductivity	263.48	uS/cm
GN-AP-MW-3	9/27/2021 12:58	DO	4.72	mg/L
GN-AP-MW-3	9/27/2021 12:58	Depth to Water Detail	19.61	ft
GN-AP-MW-3	9/27/2021 12:58	Oxidation Reduction Potention	40.28	mv
GN-AP-MW-3	9/27/2021 12:58	pH	7.72	SU
GN-AP-MW-3	9/27/2021 12:58	Temperature	23.3	C
GN-AP-MW-3	9/27/2021 12:58	Turbidity	1.96	NTU
GN-AP-MW-3	9/27/2021 13:03	Conductivity	263.98	uS/cm
GN-AP-MW-3	9/27/2021 13:03	DO	6.01	mg/L
GN-AP-MW-3	9/27/2021 13:03	Depth to Water Detail	19.76	ft
GN-AP-MW-3	9/27/2021 13:03	Oxidation Reduction Potention	40.55	mv
GN-AP-MW-3	9/27/2021 13:03	pH	7.73	SU
GN-AP-MW-3	9/27/2021 13:03	Temperature	23.65	C
GN-AP-MW-3	9/27/2021 13:03	Turbidity	2.08	NTU
GN-AP-MW-3	9/27/2021 13:08	Conductivity	264.93	uS/cm
GN-AP-MW-3	9/27/2021 13:08	DO	5.81	mg/L
GN-AP-MW-3	9/27/2021 13:08	Depth to Water Detail	19.81	ft
GN-AP-MW-3	9/27/2021 13:08	Oxidation Reduction Potention	41.61	mv
GN-AP-MW-3	9/27/2021 13:08	pH	7.79	SU
GN-AP-MW-3	9/27/2021 13:08	Temperature	24.25	C
GN-AP-MW-3	9/27/2021 13:08	Turbidity	2.09	NTU
GN-AP-MW-3	9/27/2021 13:13	Conductivity	258.75	uS/cm
GN-AP-MW-3	9/27/2021 13:13	DO	5.77	mg/L
GN-AP-MW-3	9/27/2021 13:13	Depth to Water Detail	19.84	ft
GN-AP-MW-3	9/27/2021 13:13	Oxidation Reduction Potention	43.39	mv
GN-AP-MW-3	9/27/2021 13:13	pH	7.81	SU
GN-AP-MW-3	9/27/2021 13:13	Temperature	24.6	C
GN-AP-MW-3	9/27/2021 13:13	Turbidity	1.97	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-4	9/27/2021 11:08	Conductivity	504.79	uS/cm
GN-AP-MW-4	9/27/2021 11:08	DO	0.74	mg/L
GN-AP-MW-4	9/27/2021 11:08	Depth to Water Detail	18.93	ft
GN-AP-MW-4	9/27/2021 11:08	Oxidation Reduction Potention	-29.75	mv
GN-AP-MW-4	9/27/2021 11:08	pH	7.29	SU
GN-AP-MW-4	9/27/2021 11:08	Temperature	21.03	C
GN-AP-MW-4	9/27/2021 11:08	Turbidity	3.98	NTU
GN-AP-MW-4	9/27/2021 11:13	Conductivity	500.19	uS/cm
GN-AP-MW-4	9/27/2021 11:13	DO	0.82	mg/L
GN-AP-MW-4	9/27/2021 11:13	Depth to Water Detail	18.95	ft
GN-AP-MW-4	9/27/2021 11:13	Oxidation Reduction Potention	-40.55	mv
GN-AP-MW-4	9/27/2021 11:13	pH	7.28	SU
GN-AP-MW-4	9/27/2021 11:13	Temperature	21.01	C
GN-AP-MW-4	9/27/2021 11:13	Turbidity	5.21	NTU
GN-AP-MW-4	9/27/2021 11:18	Conductivity	482.16	uS/cm
GN-AP-MW-4	9/27/2021 11:18	DO	1.18	mg/L
GN-AP-MW-4	9/27/2021 11:18	Depth to Water Detail	18.96	ft
GN-AP-MW-4	9/27/2021 11:18	Oxidation Reduction Potention	-58.82	mv
GN-AP-MW-4	9/27/2021 11:18	pH	7.35	SU
GN-AP-MW-4	9/27/2021 11:18	Temperature	21.11	C
GN-AP-MW-4	9/27/2021 11:18	Turbidity	3.97	NTU
GN-AP-MW-4	9/27/2021 11:23	Conductivity	477.59	uS/cm
GN-AP-MW-4	9/27/2021 11:23	DO	1.27	mg/L
GN-AP-MW-4	9/27/2021 11:23	Depth to Water Detail	18.96	ft
GN-AP-MW-4	9/27/2021 11:23	Oxidation Reduction Potention	-58.61	mv
GN-AP-MW-4	9/27/2021 11:23	pH	7.35	SU
GN-AP-MW-4	9/27/2021 11:23	Temperature	21.01	C
GN-AP-MW-4	9/27/2021 11:23	Turbidity	3.29	NTU
GN-AP-MW-4	9/27/2021 11:28	Conductivity	474.36	uS/cm
GN-AP-MW-4	9/27/2021 11:28	DO	1.33	mg/L
GN-AP-MW-4	9/27/2021 11:28	Depth to Water Detail	18.97	ft
GN-AP-MW-4	9/27/2021 11:28	Oxidation Reduction Potention	-54.94	mv
GN-AP-MW-4	9/27/2021 11:28	pH	7.37	SU
GN-AP-MW-4	9/27/2021 11:28	Temperature	21	C
GN-AP-MW-4	9/27/2021 11:28	Turbidity	3.13	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17	9/29/2021 8:33	Conductivity	1206.19	uS/cm
GN-AP-MW-17	9/29/2021 8:33	DO	0.26	mg/L
GN-AP-MW-17	9/29/2021 8:33	Depth to Water Detail	7.33	ft
GN-AP-MW-17	9/29/2021 8:33	Oxidation Reduction Potention	-142.99	mv
GN-AP-MW-17	9/29/2021 8:33	pH	9.21	SU
GN-AP-MW-17	9/29/2021 8:33	Temperature	21.41	C
GN-AP-MW-17	9/29/2021 8:33	Turbidity	0.33	NTU
GN-AP-MW-17	9/29/2021 8:38	Conductivity	1198.19	uS/cm
GN-AP-MW-17	9/29/2021 8:38	DO	0.25	mg/L
GN-AP-MW-17	9/29/2021 8:38	Depth to Water Detail	8.15	ft
GN-AP-MW-17	9/29/2021 8:38	Oxidation Reduction Potention	-157.54	mv
GN-AP-MW-17	9/29/2021 8:38	pH	9.22	SU
GN-AP-MW-17	9/29/2021 8:38	Temperature	21.29	C
GN-AP-MW-17	9/29/2021 8:38	Turbidity	0.3	NTU
GN-AP-MW-17	9/29/2021 8:43	Conductivity	1201.14	uS/cm
GN-AP-MW-17	9/29/2021 8:43	DO	0.24	mg/L
GN-AP-MW-17	9/29/2021 8:43	Depth to Water Detail	8.62	ft
GN-AP-MW-17	9/29/2021 8:43	Oxidation Reduction Potention	-171.5	mv
GN-AP-MW-17	9/29/2021 8:43	pH	9.28	SU
GN-AP-MW-17	9/29/2021 8:43	Temperature	21.31	C
GN-AP-MW-17	9/29/2021 8:43	Turbidity	0.32	NTU
GN-AP-MW-17	9/29/2021 8:48	Conductivity	1194.35	uS/cm
GN-AP-MW-17	9/29/2021 8:48	DO	0.23	mg/L
GN-AP-MW-17	9/29/2021 8:48	Depth to Water Detail	8.89	ft
GN-AP-MW-17	9/29/2021 8:48	Oxidation Reduction Potention	-181.62	mv
GN-AP-MW-17	9/29/2021 8:48	pH	9.31	SU
GN-AP-MW-17	9/29/2021 8:48	Temperature	21.28	C
GN-AP-MW-17	9/29/2021 8:48	Turbidity	0.29	NTU
GN-AP-MW-17	9/29/2021 8:53	Conductivity	1189.05	uS/cm
GN-AP-MW-17	9/29/2021 8:53	DO	0.22	mg/L
GN-AP-MW-17	9/29/2021 8:53	Depth to Water Detail	9.1	ft
GN-AP-MW-17	9/29/2021 8:53	Oxidation Reduction Potention	-188.39	mv
GN-AP-MW-17	9/29/2021 8:53	pH	9.31	SU
GN-AP-MW-17	9/29/2021 8:53	Temperature	21.25	C
GN-AP-MW-17	9/29/2021 8:53	Turbidity	0.41	NTU
GN-AP-MW-17	9/29/2021 8:58	Conductivity	1187.56	uS/cm
GN-AP-MW-17	9/29/2021 8:58	DO	0.22	mg/L
GN-AP-MW-17	9/29/2021 8:58	Depth to Water Detail	9.21	ft
GN-AP-MW-17	9/29/2021 8:58	Oxidation Reduction Potention	-192.38	mv
GN-AP-MW-17	9/29/2021 8:58	pH	9.32	SU
GN-AP-MW-17	9/29/2021 8:58	Temperature	21.22	C
GN-AP-MW-17	9/29/2021 8:58	Turbidity	0.34	NTU
GN-AP-MW-17	9/29/2021 9:03	Conductivity	1182.49	uS/cm
GN-AP-MW-17	9/29/2021 9:03	DO	0.23	mg/L
GN-AP-MW-17	9/29/2021 9:03	Depth to Water Detail	9.28	ft
GN-AP-MW-17	9/29/2021 9:03	Oxidation Reduction Potention	-196.74	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17	9/29/2021 9:03	pH	9.33	SU
GN-AP-MW-17	9/29/2021 9:03	Temperature	21.16	C
GN-AP-MW-17	9/29/2021 9:03	Turbidity	0.33	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17SV	9/29/2021 9:33	Conductivity	873.17	uS/cm
GN-AP-MW-17SV	9/29/2021 9:33	DO	0.26	mg/L
GN-AP-MW-17SV	9/29/2021 9:33	Depth to Water Detail	9.89	ft
GN-AP-MW-17SV	9/29/2021 9:33	Oxidation Reduction Potention	-224.1	mv
GN-AP-MW-17SV	9/29/2021 9:33	pH	8.26	SU
GN-AP-MW-17SV	9/29/2021 9:33	Temperature	21.78	C
GN-AP-MW-17SV	9/29/2021 9:33	Turbidity	0.48	NTU
GN-AP-MW-17SV	9/29/2021 9:38	Conductivity	841.8	uS/cm
GN-AP-MW-17SV	9/29/2021 9:38	DO	0.23	mg/L
GN-AP-MW-17SV	9/29/2021 9:38	Depth to Water Detail	9.89	ft
GN-AP-MW-17SV	9/29/2021 9:38	Oxidation Reduction Potention	-184.14	mv
GN-AP-MW-17SV	9/29/2021 9:38	pH	7.76	SU
GN-AP-MW-17SV	9/29/2021 9:38	Temperature	21.76	C
GN-AP-MW-17SV	9/29/2021 9:38	Turbidity	0.49	NTU
GN-AP-MW-17SV	9/29/2021 9:43	Conductivity	835.08	uS/cm
GN-AP-MW-17SV	9/29/2021 9:43	DO	0.21	mg/L
GN-AP-MW-17SV	9/29/2021 9:43	Depth to Water Detail	9.89	ft
GN-AP-MW-17SV	9/29/2021 9:43	Oxidation Reduction Potention	-177.24	mv
GN-AP-MW-17SV	9/29/2021 9:43	pH	7.65	SU
GN-AP-MW-17SV	9/29/2021 9:43	Temperature	21.76	C
GN-AP-MW-17SV	9/29/2021 9:43	Turbidity	0.54	NTU
GN-AP-MW-17SV	9/29/2021 9:48	Conductivity	831.6	uS/cm
GN-AP-MW-17SV	9/29/2021 9:48	DO	0.22	mg/L
GN-AP-MW-17SV	9/29/2021 9:48	Depth to Water Detail	9.89	ft
GN-AP-MW-17SV	9/29/2021 9:48	Oxidation Reduction Potention	-172.9	mv
GN-AP-MW-17SV	9/29/2021 9:48	pH	7.61	SU
GN-AP-MW-17SV	9/29/2021 9:48	Temperature	21.73	C
GN-AP-MW-17SV	9/29/2021 9:48	Turbidity	0.81	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-18	9/28/2021 14:57	Conductivity	781.66	uS/cm
GN-AP-MW-18	9/28/2021 14:57	DO	0.13	mg/L
GN-AP-MW-18	9/28/2021 14:57	Depth to Water Detail	20.14	ft
GN-AP-MW-18	9/28/2021 14:57	Oxidation Reduction Potention	-24.54	mv
GN-AP-MW-18	9/28/2021 14:57	pH	6.41	SU
GN-AP-MW-18	9/28/2021 14:57	Temperature	20.14	C
GN-AP-MW-18	9/28/2021 14:57	Turbidity	2.41	NTU
GN-AP-MW-18	9/28/2021 15:02	Conductivity	837.79	uS/cm
GN-AP-MW-18	9/28/2021 15:02	DO	0.1	mg/L
GN-AP-MW-18	9/28/2021 15:02	Depth to Water Detail	20.14	ft
GN-AP-MW-18	9/28/2021 15:02	Oxidation Reduction Potention	-19.45	mv
GN-AP-MW-18	9/28/2021 15:02	pH	6.22	SU
GN-AP-MW-18	9/28/2021 15:02	Temperature	19.97	C
GN-AP-MW-18	9/28/2021 15:02	Turbidity	2.31	NTU
GN-AP-MW-18	9/28/2021 15:07	Conductivity	866.43	uS/cm
GN-AP-MW-18	9/28/2021 15:07	DO	0.09	mg/L
GN-AP-MW-18	9/28/2021 15:07	Depth to Water Detail	20.14	ft
GN-AP-MW-18	9/28/2021 15:07	Oxidation Reduction Potention	-20.01	mv
GN-AP-MW-18	9/28/2021 15:07	pH	6.41	SU
GN-AP-MW-18	9/28/2021 15:07	Temperature	20.08	C
GN-AP-MW-18	9/28/2021 15:07	Turbidity	1.87	NTU
GN-AP-MW-18	9/28/2021 15:12	Conductivity	877.27	uS/cm
GN-AP-MW-18	9/28/2021 15:12	DO	0.09	mg/L
GN-AP-MW-18	9/28/2021 15:12	Depth to Water Detail	20.14	ft
GN-AP-MW-18	9/28/2021 15:12	Oxidation Reduction Potention	-23.33	mv
GN-AP-MW-18	9/28/2021 15:12	pH	6.46	SU
GN-AP-MW-18	9/28/2021 15:12	Temperature	20.11	C
GN-AP-MW-18	9/28/2021 15:12	Turbidity	1.92	NTU
GN-AP-MW-18	9/28/2021 15:17	Conductivity	877.74	uS/cm
GN-AP-MW-18	9/28/2021 15:17	DO	0.08	mg/L
GN-AP-MW-18	9/28/2021 15:17	Depth to Water Detail	20.14	ft
GN-AP-MW-18	9/28/2021 15:17	Oxidation Reduction Potention	-26.65	mv
GN-AP-MW-18	9/28/2021 15:17	pH	6.48	SU
GN-AP-MW-18	9/28/2021 15:17	Temperature	20.16	C
GN-AP-MW-18	9/28/2021 15:17	Turbidity	1.9	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20	9/28/2021 14:03	Conductivity	1199.84	uS/cm
GN-AP-MW-20	9/28/2021 14:03	DO	0.37	mg/L
GN-AP-MW-20	9/28/2021 14:03	Depth to Water Detail	9.79	ft
GN-AP-MW-20	9/28/2021 14:03	Oxidation Reduction Potention	-121.45	mv
GN-AP-MW-20	9/28/2021 14:03	pH	7.67	SU
GN-AP-MW-20	9/28/2021 14:03	Temperature	22.59	C
GN-AP-MW-20	9/28/2021 14:03	Turbidity	1.29	NTU
GN-AP-MW-20	9/28/2021 14:08	Conductivity	1195.13	uS/cm
GN-AP-MW-20	9/28/2021 14:08	DO	0.26	mg/L
GN-AP-MW-20	9/28/2021 14:08	Depth to Water Detail	9.82	ft
GN-AP-MW-20	9/28/2021 14:08	Oxidation Reduction Potention	-129.49	mv
GN-AP-MW-20	9/28/2021 14:08	pH	7.66	SU
GN-AP-MW-20	9/28/2021 14:08	Temperature	22.6	C
GN-AP-MW-20	9/28/2021 14:08	Turbidity	0.83	NTU
GN-AP-MW-20	9/28/2021 14:13	Conductivity	1193.01	uS/cm
GN-AP-MW-20	9/28/2021 14:13	DO	0.23	mg/L
GN-AP-MW-20	9/28/2021 14:13	Depth to Water Detail	9.88	ft
GN-AP-MW-20	9/28/2021 14:13	Oxidation Reduction Potention	-135.06	mv
GN-AP-MW-20	9/28/2021 14:13	pH	7.7	SU
GN-AP-MW-20	9/28/2021 14:13	Temperature	22.75	C
GN-AP-MW-20	9/28/2021 14:13	Turbidity	1.08	NTU
GN-AP-MW-20	9/28/2021 14:18	Conductivity	1191.9	uS/cm
GN-AP-MW-20	9/28/2021 14:18	DO	0.22	mg/L
GN-AP-MW-20	9/28/2021 14:18	Depth to Water Detail	9.92	ft
GN-AP-MW-20	9/28/2021 14:18	Oxidation Reduction Potention	-138.08	mv
GN-AP-MW-20	9/28/2021 14:18	pH	7.76	SU
GN-AP-MW-20	9/28/2021 14:18	Temperature	22.69	C
GN-AP-MW-20	9/28/2021 14:18	Turbidity	1.11	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20SV	9/28/2021 12:52	Conductivity	1018.55	uS/cm
GN-AP-MW-20SV	9/28/2021 12:52	DO	0.24	mg/L
GN-AP-MW-20SV	9/28/2021 12:52	Depth to Water Detail	11.26	ft
GN-AP-MW-20SV	9/28/2021 12:52	Oxidation Reduction Potention	-170.75	mv
GN-AP-MW-20SV	9/28/2021 12:52	pH	6.89	SU
GN-AP-MW-20SV	9/28/2021 12:52	Temperature	20.64	C
GN-AP-MW-20SV	9/28/2021 12:52	Turbidity	37.8	NTU
GN-AP-MW-20SV	9/28/2021 12:57	Conductivity	1014.73	uS/cm
GN-AP-MW-20SV	9/28/2021 12:57	DO	0.2	mg/L
GN-AP-MW-20SV	9/28/2021 12:57	Depth to Water Detail	11.48	ft
GN-AP-MW-20SV	9/28/2021 12:57	Oxidation Reduction Potention	-170.63	mv
GN-AP-MW-20SV	9/28/2021 12:57	pH	6.78	SU
GN-AP-MW-20SV	9/28/2021 12:57	Temperature	20.63	C
GN-AP-MW-20SV	9/28/2021 12:57	Turbidity	27.6	NTU
GN-AP-MW-20SV	9/28/2021 13:02	Conductivity	1010.35	uS/cm
GN-AP-MW-20SV	9/28/2021 13:02	DO	0.18	mg/L
GN-AP-MW-20SV	9/28/2021 13:02	Depth to Water Detail	11.52	ft
GN-AP-MW-20SV	9/28/2021 13:02	Oxidation Reduction Potention	-170.93	mv
GN-AP-MW-20SV	9/28/2021 13:02	pH	6.87	SU
GN-AP-MW-20SV	9/28/2021 13:02	Temperature	20.65	C
GN-AP-MW-20SV	9/28/2021 13:02	Turbidity	20.1	NTU
GN-AP-MW-20SV	9/28/2021 13:07	Conductivity	1002.87	uS/cm
GN-AP-MW-20SV	9/28/2021 13:07	DO	0.17	mg/L
GN-AP-MW-20SV	9/28/2021 13:07	Depth to Water Detail	11.55	ft
GN-AP-MW-20SV	9/28/2021 13:07	Oxidation Reduction Potention	-169.4	mv
GN-AP-MW-20SV	9/28/2021 13:07	pH	6.89	SU
GN-AP-MW-20SV	9/28/2021 13:07	Temperature	20.59	C
GN-AP-MW-20SV	9/28/2021 13:07	Turbidity	18.8	NTU
GN-AP-MW-20SV	9/28/2021 13:12	Conductivity	1001.83	uS/cm
GN-AP-MW-20SV	9/28/2021 13:12	DO	0.18	mg/L
GN-AP-MW-20SV	9/28/2021 13:12	Depth to Water Detail	11.55	ft
GN-AP-MW-20SV	9/28/2021 13:12	Oxidation Reduction Potention	-169.3	mv
GN-AP-MW-20SV	9/28/2021 13:12	pH	6.84	SU
GN-AP-MW-20SV	9/28/2021 13:12	Temperature	20.51	C
GN-AP-MW-20SV	9/28/2021 13:12	Turbidity	14.4	NTU
GN-AP-MW-20SV	9/28/2021 13:17	Conductivity	1003.6	uS/cm
GN-AP-MW-20SV	9/28/2021 13:17	DO	0.18	mg/L
GN-AP-MW-20SV	9/28/2021 13:17	Depth to Water Detail	11.55	ft
GN-AP-MW-20SV	9/28/2021 13:17	Oxidation Reduction Potention	-169.06	mv
GN-AP-MW-20SV	9/28/2021 13:17	pH	6.75	SU
GN-AP-MW-20SV	9/28/2021 13:17	Temperature	20.41	C
GN-AP-MW-20SV	9/28/2021 13:17	Turbidity	11.6	NTU
GN-AP-MW-20SV	9/28/2021 13:22	Conductivity	1003.83	uS/cm
GN-AP-MW-20SV	9/28/2021 13:22	DO	0.17	mg/L
GN-AP-MW-20SV	9/28/2021 13:22	Depth to Water Detail	11.55	ft
GN-AP-MW-20SV	9/28/2021 13:22	Oxidation Reduction Potention	-168.72	mv

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Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20SV	9/28/2021 13:22	pH	6.82	SU
GN-AP-MW-20SV	9/28/2021 13:22	Temperature	20.46	C
GN-AP-MW-20SV	9/28/2021 13:22	Turbidity	11.92	NTU
GN-AP-MW-20SV	9/28/2021 13:27	Conductivity	1003.99	uS/cm
GN-AP-MW-20SV	9/28/2021 13:27	DO	0.17	mg/L
GN-AP-MW-20SV	9/28/2021 13:27	Depth to Water Detail	11.55	ft
GN-AP-MW-20SV	9/28/2021 13:27	Oxidation Reduction Potention	-168.26	mv
GN-AP-MW-20SV	9/28/2021 13:27	pH	6.83	SU
GN-AP-MW-20SV	9/28/2021 13:27	Temperature	20.45	C
GN-AP-MW-20SV	9/28/2021 13:27	Turbidity	10.25	NTU
GN-AP-MW-20SV	9/28/2021 13:32	Conductivity	1006.57	uS/cm
GN-AP-MW-20SV	9/28/2021 13:32	DO	0.17	mg/L
GN-AP-MW-20SV	9/28/2021 13:32	Depth to Water Detail	11.55	ft
GN-AP-MW-20SV	9/28/2021 13:32	Oxidation Reduction Potention	-167.93	mv
GN-AP-MW-20SV	9/28/2021 13:32	pH	6.87	SU
GN-AP-MW-20SV	9/28/2021 13:32	Temperature	20.5	C
GN-AP-MW-20SV	9/28/2021 13:32	Turbidity	9.7	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20V	9/28/2021 10:23	Conductivity	1080.87	uS/cm
GN-AP-MW-20V	9/28/2021 10:23	DO	0.51	mg/L
GN-AP-MW-20V	9/28/2021 10:23	Depth to Water Detail	9.86	ft
GN-AP-MW-20V	9/28/2021 10:23	Oxidation Reduction Potention	-196.82	mv
GN-AP-MW-20V	9/28/2021 10:23	pH	7.8	SU
GN-AP-MW-20V	9/28/2021 10:23	Temperature	21.36	C
GN-AP-MW-20V	9/28/2021 10:23	Turbidity	53.3	NTU
GN-AP-MW-20V	9/28/2021 10:28	Conductivity	1077.76	uS/cm
GN-AP-MW-20V	9/28/2021 10:28	DO	0.41	mg/L
GN-AP-MW-20V	9/28/2021 10:28	Depth to Water Detail	10.43	ft
GN-AP-MW-20V	9/28/2021 10:28	Oxidation Reduction Potention	-203.71	mv
GN-AP-MW-20V	9/28/2021 10:28	pH	7.89	SU
GN-AP-MW-20V	9/28/2021 10:28	Temperature	21.37	C
GN-AP-MW-20V	9/28/2021 10:28	Turbidity	34.2	NTU
GN-AP-MW-20V	9/28/2021 10:33	Conductivity	1075.81	uS/cm
GN-AP-MW-20V	9/28/2021 10:33	DO	0.39	mg/L
GN-AP-MW-20V	9/28/2021 10:33	Depth to Water Detail	10.86	ft
GN-AP-MW-20V	9/28/2021 10:33	Oxidation Reduction Potention	-208.34	mv
GN-AP-MW-20V	9/28/2021 10:33	pH	7.97	SU
GN-AP-MW-20V	9/28/2021 10:33	Temperature	21.24	C
GN-AP-MW-20V	9/28/2021 10:33	Turbidity	26.6	NTU
GN-AP-MW-20V	9/28/2021 10:38	Conductivity	1075.42	uS/cm
GN-AP-MW-20V	9/28/2021 10:38	DO	0.41	mg/L
GN-AP-MW-20V	9/28/2021 10:38	Depth to Water Detail	11.35	ft
GN-AP-MW-20V	9/28/2021 10:38	Oxidation Reduction Potention	-212.74	mv
GN-AP-MW-20V	9/28/2021 10:38	pH	7.99	SU
GN-AP-MW-20V	9/28/2021 10:38	Temperature	21.1	C
GN-AP-MW-20V	9/28/2021 10:38	Turbidity	22.1	NTU
GN-AP-MW-20V	9/28/2021 10:43	Conductivity	1073.83	uS/cm
GN-AP-MW-20V	9/28/2021 10:43	DO	0.4	mg/L
GN-AP-MW-20V	9/28/2021 10:43	Depth to Water Detail	11.66	ft
GN-AP-MW-20V	9/28/2021 10:43	Oxidation Reduction Potention	-213.94	mv
GN-AP-MW-20V	9/28/2021 10:43	pH	8.01	SU
GN-AP-MW-20V	9/28/2021 10:43	Temperature	21.15	C
GN-AP-MW-20V	9/28/2021 10:43	Turbidity	18.7	NTU
GN-AP-MW-20V	9/28/2021 10:48	Conductivity	1080.89	uS/cm
GN-AP-MW-20V	9/28/2021 10:48	DO	0.44	mg/L
GN-AP-MW-20V	9/28/2021 10:48	Depth to Water Detail	11.7	ft
GN-AP-MW-20V	9/28/2021 10:48	Oxidation Reduction Potention	-215.97	mv
GN-AP-MW-20V	9/28/2021 10:48	pH	8.02	SU
GN-AP-MW-20V	9/28/2021 10:48	Temperature	21.22	C
GN-AP-MW-20V	9/28/2021 10:48	Turbidity	14.2	NTU
GN-AP-MW-20V	9/28/2021 10:53	Conductivity	1082.53	uS/cm
GN-AP-MW-20V	9/28/2021 10:53	DO	0.48	mg/L
GN-AP-MW-20V	9/28/2021 10:53	Depth to Water Detail	11.75	ft
GN-AP-MW-20V	9/28/2021 10:53	Oxidation Reduction Potention	-214.99	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20V	9/28/2021 10:53	pH	7.92	SU
GN-AP-MW-20V	9/28/2021 10:53	Temperature	21.14	C
GN-AP-MW-20V	9/28/2021 10:53	Turbidity	12.2	NTU
GN-AP-MW-20V	9/28/2021 10:58	Conductivity	1085.91	uS/cm
GN-AP-MW-20V	9/28/2021 10:58	DO	0.48	mg/L
GN-AP-MW-20V	9/28/2021 10:58	Depth to Water Detail	11.78	ft
GN-AP-MW-20V	9/28/2021 10:58	Oxidation Reduction Potention	-216.64	mv
GN-AP-MW-20V	9/28/2021 10:58	pH	8	SU
GN-AP-MW-20V	9/28/2021 10:58	Temperature	21.23	C
GN-AP-MW-20V	9/28/2021 10:58	Turbidity	11.4	NTU
GN-AP-MW-20V	9/28/2021 11:03	Conductivity	1073.77	uS/cm
GN-AP-MW-20V	9/28/2021 11:03	DO	0.48	mg/L
GN-AP-MW-20V	9/28/2021 11:03	Depth to Water Detail	11.8	ft
GN-AP-MW-20V	9/28/2021 11:03	Oxidation Reduction Potention	-218.62	mv
GN-AP-MW-20V	9/28/2021 11:03	pH	8.03	SU
GN-AP-MW-20V	9/28/2021 11:03	Temperature	21.23	C
GN-AP-MW-20V	9/28/2021 11:03	Turbidity	11.7	NTU
GN-AP-MW-20V	9/28/2021 11:08	Conductivity	1070.79	uS/cm
GN-AP-MW-20V	9/28/2021 11:08	DO	0.49	mg/L
GN-AP-MW-20V	9/28/2021 11:08	Depth to Water Detail	11.82	ft
GN-AP-MW-20V	9/28/2021 11:08	Oxidation Reduction Potention	-219.57	mv
GN-AP-MW-20V	9/28/2021 11:08	pH	8	SU
GN-AP-MW-20V	9/28/2021 11:08	Temperature	21.31	C
GN-AP-MW-20V	9/28/2021 11:08	Turbidity	11.2	NTU
GN-AP-MW-20V	9/28/2021 11:13	Conductivity	1073.2	uS/cm
GN-AP-MW-20V	9/28/2021 11:13	DO	0.47	mg/L
GN-AP-MW-20V	9/28/2021 11:13	Depth to Water Detail	11.83	ft
GN-AP-MW-20V	9/28/2021 11:13	Oxidation Reduction Potention	-220.24	mv
GN-AP-MW-20V	9/28/2021 11:13	pH	8	SU
GN-AP-MW-20V	9/28/2021 11:13	Temperature	21.27	C
GN-AP-MW-20V	9/28/2021 11:13	Turbidity	11.9	NTU
GN-AP-MW-20V	9/28/2021 11:18	Conductivity	1073.61	uS/cm
GN-AP-MW-20V	9/28/2021 11:18	DO	0.74	mg/L
GN-AP-MW-20V	9/28/2021 11:18	Depth to Water Detail	11.85	ft
GN-AP-MW-20V	9/28/2021 11:18	Oxidation Reduction Potention	-215.91	mv
GN-AP-MW-20V	9/28/2021 11:18	pH	8.02	SU
GN-AP-MW-20V	9/28/2021 11:18	Temperature	21.44	C
GN-AP-MW-20V	9/28/2021 11:18	Turbidity	13	NTU
GN-AP-MW-20V	9/28/2021 11:23	Conductivity	1080.69	uS/cm
GN-AP-MW-20V	9/28/2021 11:23	DO	0.69	mg/L
GN-AP-MW-20V	9/28/2021 11:23	Depth to Water Detail	11.87	ft
GN-AP-MW-20V	9/28/2021 11:23	Oxidation Reduction Potention	-215.91	mv
GN-AP-MW-20V	9/28/2021 11:23	pH	7.99	SU
GN-AP-MW-20V	9/28/2021 11:23	Temperature	21.53	C
GN-AP-MW-20V	9/28/2021 11:23	Turbidity	13.4	NTU
GN-AP-MW-20V	9/28/2021 11:28	Conductivity	1077.32	uS/cm

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20V	9/28/2021 11:28	DO	0.6	mg/L
GN-AP-MW-20V	9/28/2021 11:28	Depth to Water Detail	11.9	ft
GN-AP-MW-20V	9/28/2021 11:28	Oxidation Reduction Potention	-217.37	mv
GN-AP-MW-20V	9/28/2021 11:28	pH	8.03	SU
GN-AP-MW-20V	9/28/2021 11:28	Temperature	21.38	C
GN-AP-MW-20V	9/28/2021 11:28	Turbidity	13.7	NTU
GN-AP-MW-20V	9/28/2021 11:33	Conductivity	1084.19	uS/cm
GN-AP-MW-20V	9/28/2021 11:33	DO	0.53	mg/L
GN-AP-MW-20V	9/28/2021 11:33	Depth to Water Detail	11.92	ft
GN-AP-MW-20V	9/28/2021 11:33	Oxidation Reduction Potention	-220.06	mv
GN-AP-MW-20V	9/28/2021 11:33	pH	8.02	SU
GN-AP-MW-20V	9/28/2021 11:33	Temperature	21.3	C
GN-AP-MW-20V	9/28/2021 11:33	Turbidity	15.1	NTU
GN-AP-MW-20V	9/28/2021 11:38	Conductivity	1069.76	uS/cm
GN-AP-MW-20V	9/28/2021 11:38	DO	0.5	mg/L
GN-AP-MW-20V	9/28/2021 11:38	Depth to Water Detail	11.93	ft
GN-AP-MW-20V	9/28/2021 11:38	Oxidation Reduction Potention	-221.09	mv
GN-AP-MW-20V	9/28/2021 11:38	pH	8.02	SU
GN-AP-MW-20V	9/28/2021 11:38	Temperature	21.31	C
GN-AP-MW-20V	9/28/2021 11:38	Turbidity	13.2	NTU
GN-AP-MW-20V	9/28/2021 11:43	Conductivity	1071.38	uS/cm
GN-AP-MW-20V	9/28/2021 11:43	DO	0.5	mg/L
GN-AP-MW-20V	9/28/2021 11:43	Depth to Water Detail	11.94	ft
GN-AP-MW-20V	9/28/2021 11:43	Oxidation Reduction Potention	-221.1	mv
GN-AP-MW-20V	9/28/2021 11:43	pH	8.04	SU
GN-AP-MW-20V	9/28/2021 11:43	Temperature	21.33	C
GN-AP-MW-20V	9/28/2021 11:43	Turbidity	14.6	NTU
GN-AP-MW-20V	9/28/2021 11:48	Conductivity	1069.2	uS/cm
GN-AP-MW-20V	9/28/2021 11:48	DO	0.4	mg/L
GN-AP-MW-20V	9/28/2021 11:48	Depth to Water Detail	11.97	ft
GN-AP-MW-20V	9/28/2021 11:48	Oxidation Reduction Potention	-224.21	mv
GN-AP-MW-20V	9/28/2021 11:48	pH	8.02	SU
GN-AP-MW-20V	9/28/2021 11:48	Temperature	20.83	C
GN-AP-MW-20V	9/28/2021 11:48	Turbidity	14.1	NTU
GN-AP-MW-20V	9/28/2021 11:53	Conductivity	1070.45	uS/cm
GN-AP-MW-20V	9/28/2021 11:53	DO	0.3	mg/L
GN-AP-MW-20V	9/28/2021 11:53	Depth to Water Detail	12.01	ft
GN-AP-MW-20V	9/28/2021 11:53	Oxidation Reduction Potention	-231.29	mv
GN-AP-MW-20V	9/28/2021 11:53	pH	7.98	SU
GN-AP-MW-20V	9/28/2021 11:53	Temperature	20.79	C
GN-AP-MW-20V	9/28/2021 11:53	Turbidity	25.1	NTU
GN-AP-MW-20V	9/28/2021 11:58	Conductivity	1068.88	uS/cm
GN-AP-MW-20V	9/28/2021 11:58	DO	0.41	mg/L
GN-AP-MW-20V	9/28/2021 11:58	Depth to Water Detail	12.03	ft
GN-AP-MW-20V	9/28/2021 11:58	Oxidation Reduction Potention	-231.56	mv
GN-AP-MW-20V	9/28/2021 11:58	pH	8.04	SU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-20V	9/28/2021 11:58	Temperature	21.39	C
GN-AP-MW-20V	9/28/2021 11:58	Turbidity	23.2	NTU
GN-AP-MW-20V	9/28/2021 12:03	Conductivity	1081.92	uS/cm
GN-AP-MW-20V	9/28/2021 12:03	DO	0.47	mg/L
GN-AP-MW-20V	9/28/2021 12:03	Depth to Water Detail	12.04	ft
GN-AP-MW-20V	9/28/2021 12:03	Oxidation Reduction Potention	-226.94	mv
GN-AP-MW-20V	9/28/2021 12:03	pH	8.02	SU
GN-AP-MW-20V	9/28/2021 12:03	Temperature	21.59	C
GN-AP-MW-20V	9/28/2021 12:03	Turbidity	11.7	NTU
GN-AP-MW-20V	9/28/2021 12:08	Conductivity	1082.38	uS/cm
GN-AP-MW-20V	9/28/2021 12:08	DO	0.48	mg/L
GN-AP-MW-20V	9/28/2021 12:08	Depth to Water Detail	12.06	ft
GN-AP-MW-20V	9/28/2021 12:08	Oxidation Reduction Potention	-225.01	mv
GN-AP-MW-20V	9/28/2021 12:08	pH	8.03	SU
GN-AP-MW-20V	9/28/2021 12:08	Temperature	21.54	C
GN-AP-MW-20V	9/28/2021 12:08	Turbidity	9.55	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-32V	9/27/2021 14:02	Conductivity	673.28	uS/cm
GN-AP-MW-32V	9/27/2021 14:02	DO	2.48	mg/L
GN-AP-MW-32V	9/27/2021 14:02	Depth to Water Detail	45.24	ft
GN-AP-MW-32V	9/27/2021 14:02	Oxidation Reduction Potention	-268.41	mv
GN-AP-MW-32V	9/27/2021 14:02	pH	8.01	SU
GN-AP-MW-32V	9/27/2021 14:02	Temperature	29.92	C
GN-AP-MW-32V	9/27/2021 14:02	Turbidity	2.1	NTU
GN-AP-MW-32V	9/27/2021 14:07	Conductivity	655.26	uS/cm
GN-AP-MW-32V	9/27/2021 14:07	DO	2.28	mg/L
GN-AP-MW-32V	9/27/2021 14:07	Depth to Water Detail	45.47	ft
GN-AP-MW-32V	9/27/2021 14:07	Oxidation Reduction Potention	-277.84	mv
GN-AP-MW-32V	9/27/2021 14:07	pH	8	SU
GN-AP-MW-32V	9/27/2021 14:07	Temperature	28.79	C
GN-AP-MW-32V	9/27/2021 14:07	Turbidity	2.32	NTU
GN-AP-MW-32V	9/27/2021 14:12	Conductivity	655.91	uS/cm
GN-AP-MW-32V	9/27/2021 14:12	DO	2.42	mg/L
GN-AP-MW-32V	9/27/2021 14:12	Depth to Water Detail	45.72	ft
GN-AP-MW-32V	9/27/2021 14:12	Oxidation Reduction Potention	-277.81	mv
GN-AP-MW-32V	9/27/2021 14:12	pH	8.01	SU
GN-AP-MW-32V	9/27/2021 14:12	Temperature	28.6	C
GN-AP-MW-32V	9/27/2021 14:12	Turbidity	2.28	NTU
GN-AP-MW-32V	9/27/2021 14:17	Conductivity	681.33	uS/cm
GN-AP-MW-32V	9/27/2021 14:17	DO	2.44	mg/L
GN-AP-MW-32V	9/27/2021 14:17	Depth to Water Detail	45.91	ft
GN-AP-MW-32V	9/27/2021 14:17	Oxidation Reduction Potention	-276.07	mv
GN-AP-MW-32V	9/27/2021 14:17	pH	8.05	SU
GN-AP-MW-32V	9/27/2021 14:17	Temperature	28.08	C
GN-AP-MW-32V	9/27/2021 14:17	Turbidity	3.4	NTU
GN-AP-MW-32V	9/27/2021 14:22	Conductivity	717.41	uS/cm
GN-AP-MW-32V	9/27/2021 14:22	DO	2.49	mg/L
GN-AP-MW-32V	9/27/2021 14:22	Depth to Water Detail	46.04	ft
GN-AP-MW-32V	9/27/2021 14:22	Oxidation Reduction Potention	-260.63	mv
GN-AP-MW-32V	9/27/2021 14:22	pH	8.14	SU
GN-AP-MW-32V	9/27/2021 14:22	Temperature	28.12	C
GN-AP-MW-32V	9/27/2021 14:22	Turbidity	2.93	NTU
GN-AP-MW-32V	9/27/2021 14:27	Conductivity	737.96	uS/cm
GN-AP-MW-32V	9/27/2021 14:27	DO	2.67	mg/L
GN-AP-MW-32V	9/27/2021 14:27	Depth to Water Detail	46.18	ft
GN-AP-MW-32V	9/27/2021 14:27	Oxidation Reduction Potention	-238.14	mv
GN-AP-MW-32V	9/27/2021 14:27	pH	8.16	SU
GN-AP-MW-32V	9/27/2021 14:27	Temperature	28.09	C
GN-AP-MW-32V	9/27/2021 14:27	Turbidity	3.04	NTU
GN-AP-MW-32V	9/27/2021 14:32	Conductivity	740.19	uS/cm
GN-AP-MW-32V	9/27/2021 14:32	DO	2.9	mg/L
GN-AP-MW-32V	9/27/2021 14:32	Depth to Water Detail	46.3	ft
GN-AP-MW-32V	9/27/2021 14:32	Oxidation Reduction Potention	-223.96	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-32V	9/27/2021 14:32	pH	8.14	SU
GN-AP-MW-32V	9/27/2021 14:32	Temperature	27.16	C
GN-AP-MW-32V	9/27/2021 14:32	Turbidity	2.84	NTU
GN-AP-MW-32V	9/27/2021 14:37	Conductivity	740.44	uS/cm
GN-AP-MW-32V	9/27/2021 14:37	DO	2.96	mg/L
GN-AP-MW-32V	9/27/2021 14:37	Depth to Water Detail	46.38	ft
GN-AP-MW-32V	9/27/2021 14:37	Oxidation Reduction Potention	-215.47	mv
GN-AP-MW-32V	9/27/2021 14:37	pH	8.14	SU
GN-AP-MW-32V	9/27/2021 14:37	Temperature	26.88	C
GN-AP-MW-32V	9/27/2021 14:37	Turbidity	3.11	NTU
GN-AP-MW-32V	9/27/2021 14:42	Conductivity	738.65	uS/cm
GN-AP-MW-32V	9/27/2021 14:42	DO	3.06	mg/L
GN-AP-MW-32V	9/27/2021 14:42	Depth to Water Detail	46.48	ft
GN-AP-MW-32V	9/27/2021 14:42	Oxidation Reduction Potention	-212.45	mv
GN-AP-MW-32V	9/27/2021 14:42	pH	8.14	SU
GN-AP-MW-32V	9/27/2021 14:42	Temperature	26.64	C
GN-AP-MW-32V	9/27/2021 14:42	Turbidity	2.96	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-35V	9/29/2021 12:34	Conductivity	399.33	uS/cm
GN-AP-MW-35V	9/29/2021 12:34	DO	6.62	mg/L
GN-AP-MW-35V	9/29/2021 12:34	Depth to Water Detail	47.9	ft
GN-AP-MW-35V	9/29/2021 12:34	Oxidation Reduction Potention	-169.16	mv
GN-AP-MW-35V	9/29/2021 12:34	pH	8.23	SU
GN-AP-MW-35V	9/29/2021 12:34	Temperature	28.52	C
GN-AP-MW-35V	9/29/2021 12:34	Turbidity	0.45	NTU
GN-AP-MW-35V	9/29/2021 12:39	Conductivity	439.49	uS/cm
GN-AP-MW-35V	9/29/2021 12:39	DO	1.45	mg/L
GN-AP-MW-35V	9/29/2021 12:39	Depth to Water Detail	48.1	ft
GN-AP-MW-35V	9/29/2021 12:39	Oxidation Reduction Potention	-237.22	mv
GN-AP-MW-35V	9/29/2021 12:39	pH	7.94	SU
GN-AP-MW-35V	9/29/2021 12:39	Temperature	25.57	C
GN-AP-MW-35V	9/29/2021 12:39	Turbidity	0.38	NTU
GN-AP-MW-35V	9/29/2021 12:44	Conductivity	441.54	uS/cm
GN-AP-MW-35V	9/29/2021 12:44	DO	0.78	mg/L
GN-AP-MW-35V	9/29/2021 12:44	Depth to Water Detail	48.29	ft
GN-AP-MW-35V	9/29/2021 12:44	Oxidation Reduction Potention	-269.05	mv
GN-AP-MW-35V	9/29/2021 12:44	pH	7.87	SU
GN-AP-MW-35V	9/29/2021 12:44	Temperature	24.22	C
GN-AP-MW-35V	9/29/2021 12:44	Turbidity	0.14	NTU
GN-AP-MW-35V	9/29/2021 12:49	Conductivity	439.1	uS/cm
GN-AP-MW-35V	9/29/2021 12:49	DO	0.63	mg/L
GN-AP-MW-35V	9/29/2021 12:49	Depth to Water Detail	48.53	ft
GN-AP-MW-35V	9/29/2021 12:49	Oxidation Reduction Potention	-285.81	mv
GN-AP-MW-35V	9/29/2021 12:49	pH	7.89	SU
GN-AP-MW-35V	9/29/2021 12:49	Temperature	23.88	C
GN-AP-MW-35V	9/29/2021 12:49	Turbidity	0.16	NTU
GN-AP-MW-35V	9/29/2021 12:54	Conductivity	439.09	uS/cm
GN-AP-MW-35V	9/29/2021 12:54	DO	0.54	mg/L
GN-AP-MW-35V	9/29/2021 12:54	Depth to Water Detail	48.74	ft
GN-AP-MW-35V	9/29/2021 12:54	Oxidation Reduction Potention	-294.43	mv
GN-AP-MW-35V	9/29/2021 12:54	pH	7.86	SU
GN-AP-MW-35V	9/29/2021 12:54	Temperature	23.51	C
GN-AP-MW-35V	9/29/2021 12:54	Turbidity	0.17	NTU
GN-AP-MW-35V	9/29/2021 12:59	Conductivity	443.01	uS/cm
GN-AP-MW-35V	9/29/2021 12:59	DO	0.62	mg/L
GN-AP-MW-35V	9/29/2021 12:59	Depth to Water Detail	48.96	ft
GN-AP-MW-35V	9/29/2021 12:59	Oxidation Reduction Potention	-288.54	mv
GN-AP-MW-35V	9/29/2021 12:59	pH	7.94	SU
GN-AP-MW-35V	9/29/2021 12:59	Temperature	24.58	C
GN-AP-MW-35V	9/29/2021 12:59	Turbidity	0.11	NTU
GN-AP-MW-35V	9/29/2021 13:04	Conductivity	444	uS/cm
GN-AP-MW-35V	9/29/2021 13:04	DO	0.67	mg/L
GN-AP-MW-35V	9/29/2021 13:04	Depth to Water Detail	49.14	ft
GN-AP-MW-35V	9/29/2021 13:04	Oxidation Reduction Potention	-276.29	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-35V	9/29/2021 13:04	pH	7.93	SU
GN-AP-MW-35V	9/29/2021 13:04	Temperature	24.99	C
GN-AP-MW-35V	9/29/2021 13:04	Turbidity	0.1	NTU
GN-AP-MW-35V	9/29/2021 13:09	Conductivity	446.92	uS/cm
GN-AP-MW-35V	9/29/2021 13:09	DO	0.76	mg/L
GN-AP-MW-35V	9/29/2021 13:09	Depth to Water Detail	49.32	ft
GN-AP-MW-35V	9/29/2021 13:09	Oxidation Reduction Potention	-264.41	mv
GN-AP-MW-35V	9/29/2021 13:09	pH	7.91	SU
GN-AP-MW-35V	9/29/2021 13:09	Temperature	24.9	C
GN-AP-MW-35V	9/29/2021 13:09	Turbidity	0.09	NTU
GN-AP-MW-35V	9/29/2021 13:14	Conductivity	448.62	uS/cm
GN-AP-MW-35V	9/29/2021 13:14	DO	0.85	mg/L
GN-AP-MW-35V	9/29/2021 13:14	Depth to Water Detail	49.51	ft
GN-AP-MW-35V	9/29/2021 13:14	Oxidation Reduction Potention	-253.15	mv
GN-AP-MW-35V	9/29/2021 13:14	pH	7.91	SU
GN-AP-MW-35V	9/29/2021 13:14	Temperature	25.1	C
GN-AP-MW-35V	9/29/2021 13:14	Turbidity	0.12	NTU
GN-AP-MW-35V	9/29/2021 13:19	Conductivity	444.54	uS/cm
GN-AP-MW-35V	9/29/2021 13:19	DO	0.92	mg/L
GN-AP-MW-35V	9/29/2021 13:19	Depth to Water Detail	49.68	ft
GN-AP-MW-35V	9/29/2021 13:19	Oxidation Reduction Potention	-244.07	mv
GN-AP-MW-35V	9/29/2021 13:19	pH	7.88	SU
GN-AP-MW-35V	9/29/2021 13:19	Temperature	24.75	C
GN-AP-MW-35V	9/29/2021 13:19	Turbidity	0.12	NTU
GN-AP-MW-35V	9/29/2021 13:24	Conductivity	444.92	uS/cm
GN-AP-MW-35V	9/29/2021 13:24	DO	0.98	mg/L
GN-AP-MW-35V	9/29/2021 13:24	Depth to Water Detail	49.9	ft
GN-AP-MW-35V	9/29/2021 13:24	Oxidation Reduction Potention	-237.66	mv
GN-AP-MW-35V	9/29/2021 13:24	pH	7.86	SU
GN-AP-MW-35V	9/29/2021 13:24	Temperature	24.76	C
GN-AP-MW-35V	9/29/2021 13:24	Turbidity	0.29	NTU
GN-AP-MW-35V	9/29/2021 13:29	Conductivity	445.7	uS/cm
GN-AP-MW-35V	9/29/2021 13:29	DO	1.02	mg/L
GN-AP-MW-35V	9/29/2021 13:29	Depth to Water Detail	50	ft
GN-AP-MW-35V	9/29/2021 13:29	Oxidation Reduction Potention	-233.79	mv
GN-AP-MW-35V	9/29/2021 13:29	pH	7.82	SU
GN-AP-MW-35V	9/29/2021 13:29	Temperature	24.73	C
GN-AP-MW-35V	9/29/2021 13:29	Turbidity	0.45	NTU
GN-AP-MW-35V	9/29/2021 13:34	Conductivity	446.13	uS/cm
GN-AP-MW-35V	9/29/2021 13:34	DO	1.05	mg/L
GN-AP-MW-35V	9/29/2021 13:34	Depth to Water Detail	50.17	ft
GN-AP-MW-35V	9/29/2021 13:34	Oxidation Reduction Potention	-230.07	mv
GN-AP-MW-35V	9/29/2021 13:34	pH	7.83	SU
GN-AP-MW-35V	9/29/2021 13:34	Temperature	24.68	C
GN-AP-MW-35V	9/29/2021 13:34	Turbidity	0.64	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-37V	9/27/2021 15:35	Conductivity	405.61	uS/cm
GN-AP-MW-37V	9/27/2021 15:35	DO	0.96	mg/L
GN-AP-MW-37V	9/27/2021 15:35	Depth to Water Detail	45.26	ft
GN-AP-MW-37V	9/27/2021 15:35	Oxidation Reduction Potention	-230.53	mv
GN-AP-MW-37V	9/27/2021 15:35	pH	7.85	SU
GN-AP-MW-37V	9/27/2021 15:35	Temperature	23.38	C
GN-AP-MW-37V	9/27/2021 15:35	Turbidity	2.36	NTU
GN-AP-MW-37V	9/27/2021 15:40	Conductivity	407.26	uS/cm
GN-AP-MW-37V	9/27/2021 15:40	DO	0.77	mg/L
GN-AP-MW-37V	9/27/2021 15:40	Depth to Water Detail	45.47	ft
GN-AP-MW-37V	9/27/2021 15:40	Oxidation Reduction Potention	-241.49	mv
GN-AP-MW-37V	9/27/2021 15:40	pH	7.93	SU
GN-AP-MW-37V	9/27/2021 15:40	Temperature	23.4	C
GN-AP-MW-37V	9/27/2021 15:40	Turbidity	2.23	NTU
GN-AP-MW-37V	9/27/2021 15:45	Conductivity	411.06	uS/cm
GN-AP-MW-37V	9/27/2021 15:45	DO	0.75	mg/L
GN-AP-MW-37V	9/27/2021 15:45	Depth to Water Detail	45.63	ft
GN-AP-MW-37V	9/27/2021 15:45	Oxidation Reduction Potention	-231.01	mv
GN-AP-MW-37V	9/27/2021 15:45	pH	7.9	SU
GN-AP-MW-37V	9/27/2021 15:45	Temperature	23.37	C
GN-AP-MW-37V	9/27/2021 15:45	Turbidity	2.29	NTU
GN-AP-MW-37V	9/27/2021 15:50	Conductivity	411.86	uS/cm
GN-AP-MW-37V	9/27/2021 15:50	DO	0.78	mg/L
GN-AP-MW-37V	9/27/2021 15:50	Depth to Water Detail	45.79	ft
GN-AP-MW-37V	9/27/2021 15:50	Oxidation Reduction Potention	-217.08	mv
GN-AP-MW-37V	9/27/2021 15:50	pH	7.85	SU
GN-AP-MW-37V	9/27/2021 15:50	Temperature	23.19	C
GN-AP-MW-37V	9/27/2021 15:50	Turbidity	2.37	NTU
GN-AP-MW-37V	9/27/2021 15:55	Conductivity	412.73	uS/cm
GN-AP-MW-37V	9/27/2021 15:55	DO	0.8	mg/L
GN-AP-MW-37V	9/27/2021 15:55	Depth to Water Detail	45.92	ft
GN-AP-MW-37V	9/27/2021 15:55	Oxidation Reduction Potention	-208.83	mv
GN-AP-MW-37V	9/27/2021 15:55	pH	7.88	SU
GN-AP-MW-37V	9/27/2021 15:55	Temperature	23.24	C
GN-AP-MW-37V	9/27/2021 15:55	Turbidity	2.33	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17V	9/29/2021 10:24	Conductivity	762.27	uS/cm
GN-AP-MW-17V	9/29/2021 10:24	DO	0.27	mg/L
GN-AP-MW-17V	9/29/2021 10:24	Depth to Water Detail	8.47	ft
GN-AP-MW-17V	9/29/2021 10:24	Oxidation Reduction Potention	-219	mv
GN-AP-MW-17V	9/29/2021 10:24	pH	8.28	SU
GN-AP-MW-17V	9/29/2021 10:24	Temperature	22	C
GN-AP-MW-17V	9/29/2021 10:24	Turbidity	1.76	NTU
GN-AP-MW-17V	9/29/2021 10:29	Conductivity	754.79	uS/cm
GN-AP-MW-17V	9/29/2021 10:29	DO	0.25	mg/L
GN-AP-MW-17V	9/29/2021 10:29	Depth to Water Detail	11.39	ft
GN-AP-MW-17V	9/29/2021 10:29	Oxidation Reduction Potention	-222.76	mv
GN-AP-MW-17V	9/29/2021 10:29	pH	8.26	SU
GN-AP-MW-17V	9/29/2021 10:29	Temperature	21.92	C
GN-AP-MW-17V	9/29/2021 10:29	Turbidity	1.45	NTU
GN-AP-MW-17V	9/29/2021 10:34	Conductivity	752.46	uS/cm
GN-AP-MW-17V	9/29/2021 10:34	DO	0.26	mg/L
GN-AP-MW-17V	9/29/2021 10:34	Depth to Water Detail	14.45	ft
GN-AP-MW-17V	9/29/2021 10:34	Oxidation Reduction Potention	-223.06	mv
GN-AP-MW-17V	9/29/2021 10:34	pH	8.19	SU
GN-AP-MW-17V	9/29/2021 10:34	Temperature	21.87	C
GN-AP-MW-17V	9/29/2021 10:34	Turbidity	1.49	NTU
GN-AP-MW-17V	9/29/2021 10:39	Conductivity	754.04	uS/cm
GN-AP-MW-17V	9/29/2021 10:39	DO	0.32	mg/L
GN-AP-MW-17V	9/29/2021 10:39	Depth to Water Detail	15.92	ft
GN-AP-MW-17V	9/29/2021 10:39	Oxidation Reduction Potention	-223.48	mv
GN-AP-MW-17V	9/29/2021 10:39	pH	8.23	SU
GN-AP-MW-17V	9/29/2021 10:39	Temperature	21.97	C
GN-AP-MW-17V	9/29/2021 10:39	Turbidity	1.11	NTU
GN-AP-MW-17V	9/29/2021 10:44	Conductivity	755.13	uS/cm
GN-AP-MW-17V	9/29/2021 10:44	DO	0.63	mg/L
GN-AP-MW-17V	9/29/2021 10:44	Depth to Water Detail	16.41	ft
GN-AP-MW-17V	9/29/2021 10:44	Oxidation Reduction Potention	-211.99	mv
GN-AP-MW-17V	9/29/2021 10:44	pH	8.22	SU
GN-AP-MW-17V	9/29/2021 10:44	Temperature	22.86	C
GN-AP-MW-17V	9/29/2021 10:44	Turbidity	1.32	NTU
GN-AP-MW-17V	9/29/2021 10:49	Conductivity	755.88	uS/cm
GN-AP-MW-17V	9/29/2021 10:49	DO	0.81	mg/L
GN-AP-MW-17V	9/29/2021 10:49	Depth to Water Detail	16.59	ft
GN-AP-MW-17V	9/29/2021 10:49	Oxidation Reduction Potention	-206.93	mv
GN-AP-MW-17V	9/29/2021 10:49	pH	8.24	SU
GN-AP-MW-17V	9/29/2021 10:49	Temperature	23.01	C
GN-AP-MW-17V	9/29/2021 10:49	Turbidity	1.34	NTU
GN-AP-MW-17V	9/29/2021 10:54	Conductivity	761.58	uS/cm
GN-AP-MW-17V	9/29/2021 10:54	DO	0.92	mg/L
GN-AP-MW-17V	9/29/2021 10:54	Depth to Water Detail	16.77	ft
GN-AP-MW-17V	9/29/2021 10:54	Oxidation Reduction Potention	-205.07	mv

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-17V	9/29/2021 10:54	pH	8.25	SU
GN-AP-MW-17V	9/29/2021 10:54	Temperature	23	C
GN-AP-MW-17V	9/29/2021 10:54	Turbidity	0.96	NTU
GN-AP-MW-17V	9/29/2021 10:59	Conductivity	767.48	uS/cm
GN-AP-MW-17V	9/29/2021 10:59	DO	0.95	mg/L
GN-AP-MW-17V	9/29/2021 10:59	Depth to Water Detail	16.95	ft
GN-AP-MW-17V	9/29/2021 10:59	Oxidation Reduction Potention	-204.19	mv
GN-AP-MW-17V	9/29/2021 10:59	pH	8.26	SU
GN-AP-MW-17V	9/29/2021 10:59	Temperature	23.04	C
GN-AP-MW-17V	9/29/2021 10:59	Turbidity	0.9	NTU
GN-AP-MW-17V	9/29/2021 11:04	Conductivity	771.66	uS/cm
GN-AP-MW-17V	9/29/2021 11:04	DO	0.98	mg/L
GN-AP-MW-17V	9/29/2021 11:04	Depth to Water Detail	17.08	ft
GN-AP-MW-17V	9/29/2021 11:04	Oxidation Reduction Potention	-206.31	mv
GN-AP-MW-17V	9/29/2021 11:04	pH	8.31	SU
GN-AP-MW-17V	9/29/2021 11:04	Temperature	23	C
GN-AP-MW-17V	9/29/2021 11:04	Turbidity	1.24	NTU
GN-AP-MW-17V	9/29/2021 11:09	Conductivity	774.65	uS/cm
GN-AP-MW-17V	9/29/2021 11:09	DO	0.96	mg/L
GN-AP-MW-17V	9/29/2021 11:09	Depth to Water Detail	17.24	ft
GN-AP-MW-17V	9/29/2021 11:09	Oxidation Reduction Potention	-208.48	mv
GN-AP-MW-17V	9/29/2021 11:09	pH	8.3	SU
GN-AP-MW-17V	9/29/2021 11:09	Temperature	22.94	C
GN-AP-MW-17V	9/29/2021 11:09	Turbidity	1.21	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-21	9/27/2021 14:13	Conductivity	641.91	uS/cm
GN-AP-MW-21	9/27/2021 14:13	DO	0.67	mg/L
GN-AP-MW-21	9/27/2021 14:13	Depth to Water Detail	15.94	ft
GN-AP-MW-21	9/27/2021 14:13	Oxidation Reduction Potention	84.1	mv
GN-AP-MW-21	9/27/2021 14:13	pH	7.45	SU
GN-AP-MW-21	9/27/2021 14:13	Temperature	19.74	C
GN-AP-MW-21	9/27/2021 14:13	Turbidity	1.27	NTU
GN-AP-MW-21	9/27/2021 14:18	Conductivity	646.2	uS/cm
GN-AP-MW-21	9/27/2021 14:18	DO	0.39	mg/L
GN-AP-MW-21	9/27/2021 14:18	Depth to Water Detail	16.1	ft
GN-AP-MW-21	9/27/2021 14:18	Oxidation Reduction Potention	64.85	mv
GN-AP-MW-21	9/27/2021 14:18	pH	7.57	SU
GN-AP-MW-21	9/27/2021 14:18	Temperature	19.46	C
GN-AP-MW-21	9/27/2021 14:18	Turbidity	4.61	NTU
GN-AP-MW-21	9/27/2021 14:23	Conductivity	647.5	uS/cm
GN-AP-MW-21	9/27/2021 14:23	DO	0.26	mg/L
GN-AP-MW-21	9/27/2021 14:23	Depth to Water Detail	16.1	ft
GN-AP-MW-21	9/27/2021 14:23	Oxidation Reduction Potention	46.79	mv
GN-AP-MW-21	9/27/2021 14:23	pH	7.62	SU
GN-AP-MW-21	9/27/2021 14:23	Temperature	19.51	C
GN-AP-MW-21	9/27/2021 14:23	Turbidity	3.93	NTU
GN-AP-MW-21	9/27/2021 14:28	Conductivity	650.67	uS/cm
GN-AP-MW-21	9/27/2021 14:28	DO	0.21	mg/L
GN-AP-MW-21	9/27/2021 14:28	Depth to Water Detail	16.1	ft
GN-AP-MW-21	9/27/2021 14:28	Oxidation Reduction Potention	20.5	mv
GN-AP-MW-21	9/27/2021 14:28	pH	7.64	SU
GN-AP-MW-21	9/27/2021 14:28	Temperature	19.55	C
GN-AP-MW-21	9/27/2021 14:28	Turbidity	2.25	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-22	9/27/2021 12:55	Conductivity	619.38	uS/cm
GN-AP-MW-22	9/27/2021 12:55	DO	0.21	mg/L
GN-AP-MW-22	9/27/2021 12:55	Depth to Water Detail	11.66	ft
GN-AP-MW-22	9/27/2021 12:55	Oxidation Reduction Potention	103.6	mv
GN-AP-MW-22	9/27/2021 12:55	pH	7.21	SU
GN-AP-MW-22	9/27/2021 12:55	Temperature	20.94	C
GN-AP-MW-22	9/27/2021 12:55	Turbidity	1.71	NTU
GN-AP-MW-22	9/27/2021 13:00	Conductivity	619.05	uS/cm
GN-AP-MW-22	9/27/2021 13:00	DO	0.2	mg/L
GN-AP-MW-22	9/27/2021 13:00	Depth to Water Detail	11.66	ft
GN-AP-MW-22	9/27/2021 13:00	Oxidation Reduction Potention	90.51	mv
GN-AP-MW-22	9/27/2021 13:00	pH	7.2	SU
GN-AP-MW-22	9/27/2021 13:00	Temperature	20.37	C
GN-AP-MW-22	9/27/2021 13:00	Turbidity	1.38	NTU
GN-AP-MW-22	9/27/2021 13:05	Conductivity	617.67	uS/cm
GN-AP-MW-22	9/27/2021 13:05	DO	0.19	mg/L
GN-AP-MW-22	9/27/2021 13:05	Depth to Water Detail	11.66	ft
GN-AP-MW-22	9/27/2021 13:05	Oxidation Reduction Potention	80.74	mv
GN-AP-MW-22	9/27/2021 13:05	pH	7.22	SU
GN-AP-MW-22	9/27/2021 13:05	Temperature	20.5	C
GN-AP-MW-22	9/27/2021 13:05	Turbidity	1.35	NTU
GN-AP-MW-22	9/27/2021 13:10	Conductivity	616.84	uS/cm
GN-AP-MW-22	9/27/2021 13:10	DO	0.18	mg/L
GN-AP-MW-22	9/27/2021 13:10	Depth to Water Detail	11.66	ft
GN-AP-MW-22	9/27/2021 13:10	Oxidation Reduction Potention	75.53	mv
GN-AP-MW-22	9/27/2021 13:10	pH	7.23	SU
GN-AP-MW-22	9/27/2021 13:10	Temperature	20.63	C
GN-AP-MW-22	9/27/2021 13:10	Turbidity	1.18	NTU

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Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-23D	9/21/2021 10:01	Conductivity	601.17	uS/cm
GN-AP-MW-23D	9/21/2021 10:01	DO	0.31	mg/L
GN-AP-MW-23D	9/21/2021 10:01	Depth to Water Detail	11.8	ft
GN-AP-MW-23D	9/21/2021 10:01	Oxidation Reduction Potention	-242.26	mv
GN-AP-MW-23D	9/21/2021 10:01	pH	7.92	SU
GN-AP-MW-23D	9/21/2021 10:01	Temperature	21.12	C
GN-AP-MW-23D	9/21/2021 10:01	Turbidity	3.39	NTU
GN-AP-MW-23D	9/21/2021 10:06	Conductivity	0.06	uS/cm
GN-AP-MW-23D	9/21/2021 10:06	DO	8.33	mg/L
GN-AP-MW-23D	9/21/2021 10:06	Depth to Water Detail	13.1	ft
GN-AP-MW-23D	9/21/2021 10:06	Oxidation Reduction Potention	-120.38	mv
GN-AP-MW-23D	9/21/2021 10:06	pH	8.03	SU
GN-AP-MW-23D	9/21/2021 10:06	Temperature	23.46	C
GN-AP-MW-23D	9/21/2021 10:06	Turbidity	2.69	NTU
GN-AP-MW-23D	9/21/2021 10:11	Conductivity	592.42	uS/cm
GN-AP-MW-23D	9/21/2021 10:11	DO	0.36	mg/L
GN-AP-MW-23D	9/21/2021 10:11	Depth to Water Detail	14.43	ft
GN-AP-MW-23D	9/21/2021 10:11	Oxidation Reduction Potention	-257.01	mv
GN-AP-MW-23D	9/21/2021 10:11	pH	8.03	SU
GN-AP-MW-23D	9/21/2021 10:11	Temperature	21.2	C
GN-AP-MW-23D	9/21/2021 10:11	Turbidity	2.06	NTU
GN-AP-MW-23D	9/21/2021 10:16	Conductivity	593.35	uS/cm
GN-AP-MW-23D	9/21/2021 10:16	DO	0.26	mg/L
GN-AP-MW-23D	9/21/2021 10:16	Depth to Water Detail	15.1	ft
GN-AP-MW-23D	9/21/2021 10:16	Oxidation Reduction Potention	-257.41	mv
GN-AP-MW-23D	9/21/2021 10:16	pH	8.07	SU
GN-AP-MW-23D	9/21/2021 10:16	Temperature	21.07	C
GN-AP-MW-23D	9/21/2021 10:16	Turbidity	1.87	NTU
GN-AP-MW-23D	9/21/2021 10:21	Conductivity	600.33	uS/cm
GN-AP-MW-23D	9/21/2021 10:21	DO	0.27	mg/L
GN-AP-MW-23D	9/21/2021 10:21	Depth to Water Detail	15.3	ft
GN-AP-MW-23D	9/21/2021 10:21	Oxidation Reduction Potention	-255.13	mv
GN-AP-MW-23D	9/21/2021 10:21	pH	8.09	SU
GN-AP-MW-23D	9/21/2021 10:21	Temperature	21.17	C
GN-AP-MW-23D	9/21/2021 10:21	Turbidity	1.63	NTU
GN-AP-MW-23D	9/21/2021 10:26	Conductivity	611.59	uS/cm
GN-AP-MW-23D	9/21/2021 10:26	DO	0.3	mg/L
GN-AP-MW-23D	9/21/2021 10:26	Depth to Water Detail	15.1	ft
GN-AP-MW-23D	9/21/2021 10:26	Oxidation Reduction Potention	-251.1	mv
GN-AP-MW-23D	9/21/2021 10:26	pH	8.09	SU
GN-AP-MW-23D	9/21/2021 10:26	Temperature	21.4	C
GN-AP-MW-23D	9/21/2021 10:26	Turbidity	1.91	NTU
GN-AP-MW-23D	9/21/2021 10:31	Conductivity	625.29	uS/cm
GN-AP-MW-23D	9/21/2021 10:31	DO	0.3	mg/L
GN-AP-MW-23D	9/21/2021 10:31	Depth to Water Detail	14.9	ft
GN-AP-MW-23D	9/21/2021 10:31	Oxidation Reduction Potention	-248.34	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-23D	9/21/2021 10:31	pH	8.08	SU
GN-AP-MW-23D	9/21/2021 10:31	Temperature	21.32	C
GN-AP-MW-23D	9/21/2021 10:31	Turbidity	1.53	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-23S	9/21/2021 11:21	Conductivity	430.65	uS/cm
GN-AP-MW-23S	9/21/2021 11:21	DO	1.41	mg/L
GN-AP-MW-23S	9/21/2021 11:21	Depth to Water Detail	10	ft
GN-AP-MW-23S	9/21/2021 11:21	Oxidation Reduction Potention	16.36	mv
GN-AP-MW-23S	9/21/2021 11:21	pH	7	SU
GN-AP-MW-23S	9/21/2021 11:21	Temperature	21.64	C
GN-AP-MW-23S	9/21/2021 11:21	Turbidity	1.7	NTU
GN-AP-MW-23S	9/21/2021 11:26	Conductivity	455.79	uS/cm
GN-AP-MW-23S	9/21/2021 11:26	DO	1.15	mg/L
GN-AP-MW-23S	9/21/2021 11:26	Depth to Water Detail	10.05	ft
GN-AP-MW-23S	9/21/2021 11:26	Oxidation Reduction Potention	20	mv
GN-AP-MW-23S	9/21/2021 11:26	pH	7.03	SU
GN-AP-MW-23S	9/21/2021 11:26	Temperature	21.45	C
GN-AP-MW-23S	9/21/2021 11:26	Turbidity	1.73	NTU
GN-AP-MW-23S	9/21/2021 11:31	Conductivity	464.02	uS/cm
GN-AP-MW-23S	9/21/2021 11:31	DO	1.25	mg/L
GN-AP-MW-23S	9/21/2021 11:31	Depth to Water Detail	10.05	ft
GN-AP-MW-23S	9/21/2021 11:31	Oxidation Reduction Potention	16.68	mv
GN-AP-MW-23S	9/21/2021 11:31	pH	7.13	SU
GN-AP-MW-23S	9/21/2021 11:31	Temperature	21.45	C
GN-AP-MW-23S	9/21/2021 11:31	Turbidity	1.49	NTU
GN-AP-MW-23S	9/21/2021 11:36	Conductivity	463.34	uS/cm
GN-AP-MW-23S	9/21/2021 11:36	DO	1.48	mg/L
GN-AP-MW-23S	9/21/2021 11:36	Depth to Water Detail	10.05	ft
GN-AP-MW-23S	9/21/2021 11:36	Oxidation Reduction Potention	15.16	mv
GN-AP-MW-23S	9/21/2021 11:36	pH	7.15	SU
GN-AP-MW-23S	9/21/2021 11:36	Temperature	21.54	C
GN-AP-MW-23S	9/21/2021 11:36	Turbidity	1.16	NTU
GN-AP-MW-23S	9/21/2021 11:41	Conductivity	460.59	uS/cm
GN-AP-MW-23S	9/21/2021 11:41	DO	1.65	mg/L
GN-AP-MW-23S	9/21/2021 11:41	Depth to Water Detail	10.05	ft
GN-AP-MW-23S	9/21/2021 11:41	Oxidation Reduction Potention	12.02	mv
GN-AP-MW-23S	9/21/2021 11:41	pH	7.21	SU
GN-AP-MW-23S	9/21/2021 11:41	Temperature	21.25	C
GN-AP-MW-23S	9/21/2021 11:41	Turbidity	1.4	NTU
GN-AP-MW-23S	9/21/2021 11:46	Conductivity	449.99	uS/cm
GN-AP-MW-23S	9/21/2021 11:46	DO	1.83	mg/L
GN-AP-MW-23S	9/21/2021 11:46	Depth to Water Detail	10.05	ft
GN-AP-MW-23S	9/21/2021 11:46	Oxidation Reduction Potention	10.14	mv
GN-AP-MW-23S	9/21/2021 11:46	pH	7.25	SU
GN-AP-MW-23S	9/21/2021 11:46	Temperature	21.52	C
GN-AP-MW-23S	9/21/2021 11:46	Turbidity	0.94	NTU
GN-AP-MW-23S	9/21/2021 11:51	Conductivity	448.51	uS/cm
GN-AP-MW-23S	9/21/2021 11:51	DO	1.92	mg/L
GN-AP-MW-23S	9/21/2021 11:51	Depth to Water Detail	10.05	ft
GN-AP-MW-23S	9/21/2021 11:51	Oxidation Reduction Potention	11.05	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-23S	9/21/2021 11:51	pH	7.27	SU
GN-AP-MW-23S	9/21/2021 11:51	Temperature	21.68	C
GN-AP-MW-23S	9/21/2021 11:51	Turbidity	1.02	NTU
GN-AP-MW-23S	9/21/2021 11:56	Conductivity	445.15	uS/cm
GN-AP-MW-23S	9/21/2021 11:56	DO	2.04	mg/L
GN-AP-MW-23S	9/21/2021 11:56	Depth to Water Detail	10.05	ft
GN-AP-MW-23S	9/21/2021 11:56	Oxidation Reduction Potention	11.83	mv
GN-AP-MW-23S	9/21/2021 11:56	pH	7.26	SU
GN-AP-MW-23S	9/21/2021 11:56	Temperature	21.59	C
GN-AP-MW-23S	9/21/2021 11:56	Turbidity	0.86	NTU
GN-AP-MW-23S	9/21/2021 12:01	Conductivity	440.02	uS/cm
GN-AP-MW-23S	9/21/2021 12:01	DO	2.13	mg/L
GN-AP-MW-23S	9/21/2021 12:01	Depth to Water Detail	10.05	ft
GN-AP-MW-23S	9/21/2021 12:01	Oxidation Reduction Potention	12.37	mv
GN-AP-MW-23S	9/21/2021 12:01	pH	7.27	SU
GN-AP-MW-23S	9/21/2021 12:01	Temperature	21.35	C
GN-AP-MW-23S	9/21/2021 12:01	Turbidity	1.21	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-26	9/22/2021 8:56	Conductivity	600.15	uS/cm
GN-AP-MW-26	9/22/2021 8:56	DO	2.17	mg/L
GN-AP-MW-26	9/22/2021 8:56	Depth to Water Detail	12.42	ft
GN-AP-MW-26	9/22/2021 8:56	Oxidation Reduction Potention	107.89	mv
GN-AP-MW-26	9/22/2021 8:56	pH	7.46	SU
GN-AP-MW-26	9/22/2021 8:56	Temperature	18.57	C
GN-AP-MW-26	9/22/2021 8:56	Turbidity	0.97	NTU
GN-AP-MW-26	9/22/2021 9:01	Conductivity	599.59	uS/cm
GN-AP-MW-26	9/22/2021 9:01	DO	2.09	mg/L
GN-AP-MW-26	9/22/2021 9:01	Depth to Water Detail	13.42	ft
GN-AP-MW-26	9/22/2021 9:01	Oxidation Reduction Potention	85.7	mv
GN-AP-MW-26	9/22/2021 9:01	pH	7.49	SU
GN-AP-MW-26	9/22/2021 9:01	Temperature	18.48	C
GN-AP-MW-26	9/22/2021 9:01	Turbidity	0.8	NTU
GN-AP-MW-26	9/22/2021 9:06	Conductivity	600.42	uS/cm
GN-AP-MW-26	9/22/2021 9:06	DO	2.04	mg/L
GN-AP-MW-26	9/22/2021 9:06	Depth to Water Detail	14	ft
GN-AP-MW-26	9/22/2021 9:06	Oxidation Reduction Potention	77.91	mv
GN-AP-MW-26	9/22/2021 9:06	pH	7.71	SU
GN-AP-MW-26	9/22/2021 9:06	Temperature	18.47	C
GN-AP-MW-26	9/22/2021 9:06	Turbidity	0.81	NTU
GN-AP-MW-26	9/22/2021 9:11	Conductivity	603.57	uS/cm
GN-AP-MW-26	9/22/2021 9:11	DO	1.89	mg/L
GN-AP-MW-26	9/22/2021 9:11	Depth to Water Detail	14.3	ft
GN-AP-MW-26	9/22/2021 9:11	Oxidation Reduction Potention	70.68	mv
GN-AP-MW-26	9/22/2021 9:11	pH	7.72	SU
GN-AP-MW-26	9/22/2021 9:11	Temperature	18.39	C
GN-AP-MW-26	9/22/2021 9:11	Turbidity	1.31	NTU
GN-AP-MW-26	9/22/2021 9:16	Conductivity	606.35	uS/cm
GN-AP-MW-26	9/22/2021 9:16	DO	1.75	mg/L
GN-AP-MW-26	9/22/2021 9:16	Depth to Water Detail	14.55	ft
GN-AP-MW-26	9/22/2021 9:16	Oxidation Reduction Potention	65.75	mv
GN-AP-MW-26	9/22/2021 9:16	pH	7.75	SU
GN-AP-MW-26	9/22/2021 9:16	Temperature	18.43	C
GN-AP-MW-26	9/22/2021 9:16	Turbidity	0.94	NTU
GN-AP-MW-26	9/22/2021 9:21	Conductivity	607.7	uS/cm
GN-AP-MW-26	9/22/2021 9:21	DO	1.67	mg/L
GN-AP-MW-26	9/22/2021 9:21	Depth to Water Detail	14.65	ft
GN-AP-MW-26	9/22/2021 9:21	Oxidation Reduction Potention	60.85	mv
GN-AP-MW-26	9/22/2021 9:21	pH	7.76	SU
GN-AP-MW-26	9/22/2021 9:21	Temperature	18.4	C
GN-AP-MW-26	9/22/2021 9:21	Turbidity	0.89	NTU
GN-AP-MW-26	9/22/2021 9:26	Conductivity	608.49	uS/cm
GN-AP-MW-26	9/22/2021 9:26	DO	1.62	mg/L
GN-AP-MW-26	9/22/2021 9:26	Depth to Water Detail	14.75	ft
GN-AP-MW-26	9/22/2021 9:26	Oxidation Reduction Potention	57.06	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-26	9/22/2021 9:26	pH	7.76	SU
GN-AP-MW-26	9/22/2021 9:26	Temperature	18.33	C
GN-AP-MW-26	9/22/2021 9:26	Turbidity	0.88	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-27	9/21/2021 12:42	Conductivity	220.98	uS/cm
GN-AP-MW-27	9/21/2021 12:42	DO	4.4	mg/L
GN-AP-MW-27	9/21/2021 12:42	Depth to Water Detail	7.35	ft
GN-AP-MW-27	9/21/2021 12:42	Oxidation Reduction Potention	78.97	mv
GN-AP-MW-27	9/21/2021 12:42	pH	6.76	SU
GN-AP-MW-27	9/21/2021 12:42	Temperature	22.07	C
GN-AP-MW-27	9/21/2021 12:42	Turbidity	6.48	NTU
GN-AP-MW-27	9/21/2021 12:47	Conductivity	208.62	uS/cm
GN-AP-MW-27	9/21/2021 12:47	DO	5.29	mg/L
GN-AP-MW-27	9/21/2021 12:47	Depth to Water Detail	7.35	ft
GN-AP-MW-27	9/21/2021 12:47	Oxidation Reduction Potention	74.98	mv
GN-AP-MW-27	9/21/2021 12:47	pH	6.63	SU
GN-AP-MW-27	9/21/2021 12:47	Temperature	21.74	C
GN-AP-MW-27	9/21/2021 12:47	Turbidity	4.15	NTU
GN-AP-MW-27	9/21/2021 12:52	Conductivity	210.18	uS/cm
GN-AP-MW-27	9/21/2021 12:52	DO	5.69	mg/L
GN-AP-MW-27	9/21/2021 12:52	Depth to Water Detail	7.35	ft
GN-AP-MW-27	9/21/2021 12:52	Oxidation Reduction Potention	69.19	mv
GN-AP-MW-27	9/21/2021 12:52	pH	6.59	SU
GN-AP-MW-27	9/21/2021 12:52	Temperature	21.43	C
GN-AP-MW-27	9/21/2021 12:52	Turbidity	2.67	NTU
GN-AP-MW-27	9/21/2021 12:57	Conductivity	216.45	uS/cm
GN-AP-MW-27	9/21/2021 12:57	DO	5.86	mg/L
GN-AP-MW-27	9/21/2021 12:57	Depth to Water Detail	7.35	ft
GN-AP-MW-27	9/21/2021 12:57	Oxidation Reduction Potention	67.96	mv
GN-AP-MW-27	9/21/2021 12:57	pH	6.58	SU
GN-AP-MW-27	9/21/2021 12:57	Temperature	21.36	C
GN-AP-MW-27	9/21/2021 12:57	Turbidity	2.47	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-19	9/22/2021 10:25	Conductivity	0.06	uS/cm
GN-AP-MW-19	9/22/2021 10:25	DO	8.23	mg/L
GN-AP-MW-19	9/22/2021 10:25	Depth to Water Detail	17.8	ft
GN-AP-MW-19	9/22/2021 10:25	Oxidation Reduction Potention	118.6	mv
GN-AP-MW-19	9/22/2021 10:25	pH	7.64	SU
GN-AP-MW-19	9/22/2021 10:25	Temperature	24.42	C
GN-AP-MW-19	9/22/2021 10:25	Turbidity	0.71	NTU
GN-AP-MW-19	9/22/2021 10:30	Conductivity	401.62	uS/cm
GN-AP-MW-19	9/22/2021 10:30	DO	0.16	mg/L
GN-AP-MW-19	9/22/2021 10:30	Depth to Water Detail	25.29	ft
GN-AP-MW-19	9/22/2021 10:30	Oxidation Reduction Potention	-98.66	mv
GN-AP-MW-19	9/22/2021 10:30	pH	7.93	SU
GN-AP-MW-19	9/22/2021 10:30	Temperature	20.4	C
GN-AP-MW-19	9/22/2021 10:30	Turbidity	0.82	NTU
GN-AP-MW-19	9/22/2021 10:35	Conductivity	400.65	uS/cm
GN-AP-MW-19	9/22/2021 10:35	DO	0.12	mg/L
GN-AP-MW-19	9/22/2021 10:35	Depth to Water Detail	25.29	ft
GN-AP-MW-19	9/22/2021 10:35	Oxidation Reduction Potention	-128.06	mv
GN-AP-MW-19	9/22/2021 10:35	pH	7.91	SU
GN-AP-MW-19	9/22/2021 10:35	Temperature	20.33	C
GN-AP-MW-19	9/22/2021 10:35	Turbidity	0.73	NTU
GN-AP-MW-19	9/22/2021 10:40	Conductivity	399.46	uS/cm
GN-AP-MW-19	9/22/2021 10:40	DO	0.46	mg/L
GN-AP-MW-19	9/22/2021 10:40	Depth to Water Detail	30.18	ft
GN-AP-MW-19	9/22/2021 10:40	Oxidation Reduction Potention	-125.03	mv
GN-AP-MW-19	9/22/2021 10:40	pH	7.89	SU
GN-AP-MW-19	9/22/2021 10:40	Temperature	20.2	C
GN-AP-MW-19	9/22/2021 10:40	Turbidity	0.76	NTU
GN-AP-MW-19	9/22/2021 10:45	Conductivity	398.59	uS/cm
GN-AP-MW-19	9/22/2021 10:45	DO	0.96	mg/L
GN-AP-MW-19	9/22/2021 10:45	Depth to Water Detail	36	ft
GN-AP-MW-19	9/22/2021 10:45	Oxidation Reduction Potention	-118.36	mv
GN-AP-MW-19	9/22/2021 10:45	pH	7.88	SU
GN-AP-MW-19	9/22/2021 10:45	Temperature	20.21	C
GN-AP-MW-19	9/22/2021 10:45	Turbidity	0.98	NTU
GN-AP-MW-19	9/22/2021 10:50	Conductivity	397.67	uS/cm
GN-AP-MW-19	9/22/2021 10:50	DO	1.42	mg/L
GN-AP-MW-19	9/22/2021 10:50	Depth to Water Detail	40.05	ft
GN-AP-MW-19	9/22/2021 10:50	Oxidation Reduction Potention	-108.18	mv
GN-AP-MW-19	9/22/2021 10:50	pH	7.85	SU
GN-AP-MW-19	9/22/2021 10:50	Temperature	20.21	C
GN-AP-MW-19	9/22/2021 10:50	Turbidity	0.8	NTU
GN-AP-MW-19	9/22/2021 10:55	Conductivity	397.44	uS/cm
GN-AP-MW-19	9/22/2021 10:55	DO	1.54	mg/L
GN-AP-MW-19	9/22/2021 10:55	Depth to Water Detail	44.7	ft
GN-AP-MW-19	9/22/2021 10:55	Oxidation Reduction Potention	-105.78	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-19	9/22/2021 10:55	pH	7.86	SU
GN-AP-MW-19	9/22/2021 10:55	Temperature	20.15	C
GN-AP-MW-19	9/22/2021 10:55	Turbidity	0.81	NTU
GN-AP-MW-19	9/22/2021 11:00	Conductivity	397.31	uS/cm
GN-AP-MW-19	9/22/2021 11:00	DO	1.64	mg/L
GN-AP-MW-19	9/22/2021 11:00	Depth to Water Detail	48.9	ft
GN-AP-MW-19	9/22/2021 11:00	Oxidation Reduction Potention	-102.85	mv
GN-AP-MW-19	9/22/2021 11:00	pH	7.86	SU
GN-AP-MW-19	9/22/2021 11:00	Temperature	20.18	C
GN-AP-MW-19	9/22/2021 11:00	Turbidity	0.95	NTU
GN-AP-MW-19	9/22/2021 11:05	Conductivity	397.54	uS/cm
GN-AP-MW-19	9/22/2021 11:05	DO	1.86	mg/L
GN-AP-MW-19	9/22/2021 11:05	Depth to Water Detail	49.18	ft
GN-AP-MW-19	9/22/2021 11:05	Oxidation Reduction Potention	-92.67	mv
GN-AP-MW-19	9/22/2021 11:05	pH	7.83	SU
GN-AP-MW-19	9/22/2021 11:05	Temperature	20.73	C
GN-AP-MW-19	9/22/2021 11:05	Turbidity	0.79	NTU
GN-AP-MW-19	9/22/2021 11:10	Conductivity	397.86	uS/cm
GN-AP-MW-19	9/22/2021 11:10	DO	1.93	mg/L
GN-AP-MW-19	9/22/2021 11:10	Depth to Water Detail	49	ft
GN-AP-MW-19	9/22/2021 11:10	Oxidation Reduction Potention	-87.46	mv
GN-AP-MW-19	9/22/2021 11:10	pH	7.79	SU
GN-AP-MW-19	9/22/2021 11:10	Temperature	21.32	C
GN-AP-MW-19	9/22/2021 11:10	Turbidity	0.96	NTU
GN-AP-MW-19	9/22/2021 11:15	Conductivity	400.84	uS/cm
GN-AP-MW-19	9/22/2021 11:15	DO	1.04	mg/L
GN-AP-MW-19	9/22/2021 11:15	Depth to Water Detail	48.85	ft
GN-AP-MW-19	9/22/2021 11:15	Oxidation Reduction Potention	-115.33	mv
GN-AP-MW-19	9/22/2021 11:15	pH	7.84	SU
GN-AP-MW-19	9/22/2021 11:15	Temperature	21.45	C
GN-AP-MW-19	9/22/2021 11:15	Turbidity	72	NTU
GN-AP-MW-19	9/22/2021 11:20	Conductivity	401.17	uS/cm
GN-AP-MW-19	9/22/2021 11:20	DO	0.67	mg/L
GN-AP-MW-19	9/22/2021 11:20	Depth to Water Detail	48.65	ft
GN-AP-MW-19	9/22/2021 11:20	Oxidation Reduction Potention	-133.25	mv
GN-AP-MW-19	9/22/2021 11:20	pH	7.84	SU
GN-AP-MW-19	9/22/2021 11:20	Temperature	21.41	C
GN-AP-MW-19	9/22/2021 11:20	Turbidity	0.63	NTU
GN-AP-MW-19	9/22/2021 11:25	Conductivity	401.13	uS/cm
GN-AP-MW-19	9/22/2021 11:25	DO	0.6	mg/L
GN-AP-MW-19	9/22/2021 11:25	Depth to Water Detail	48.55	ft
GN-AP-MW-19	9/22/2021 11:25	Oxidation Reduction Potention	-141.58	mv
GN-AP-MW-19	9/22/2021 11:25	pH	7.85	SU
GN-AP-MW-19	9/22/2021 11:25	Temperature	21.38	C
GN-AP-MW-19	9/22/2021 11:25	Turbidity	0.68	NTU
GN-AP-MW-19	9/22/2021 11:30	Conductivity	401.15	uS/cm

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-19	9/22/2021 11:30	DO	0.56	mg/L
GN-AP-MW-19	9/22/2021 11:30	Depth to Water Detail	48.45	ft
GN-AP-MW-19	9/22/2021 11:30	Oxidation Reduction Potention	-146.72	mv
GN-AP-MW-19	9/22/2021 11:30	pH	7.86	SU
GN-AP-MW-19	9/22/2021 11:30	Temperature	21.24	C
GN-AP-MW-19	9/22/2021 11:30	Turbidity	0.66	NTU
GN-AP-MW-19	9/22/2021 11:35	Conductivity	401.18	uS/cm
GN-AP-MW-19	9/22/2021 11:35	DO	0.54	mg/L
GN-AP-MW-19	9/22/2021 11:35	Depth to Water Detail	48.32	ft
GN-AP-MW-19	9/22/2021 11:35	Oxidation Reduction Potention	-150.46	mv
GN-AP-MW-19	9/22/2021 11:35	pH	7.86	SU
GN-AP-MW-19	9/22/2021 11:35	Temperature	21.22	C
GN-AP-MW-19	9/22/2021 11:35	Turbidity	0.68	NTU
GN-AP-MW-19	9/22/2021 11:40	Conductivity	401.08	uS/cm
GN-AP-MW-19	9/22/2021 11:40	DO	0.53	mg/L
GN-AP-MW-19	9/22/2021 11:40	Depth to Water Detail	48.29	ft
GN-AP-MW-19	9/22/2021 11:40	Oxidation Reduction Potention	-151.82	mv
GN-AP-MW-19	9/22/2021 11:40	pH	7.86	SU
GN-AP-MW-19	9/22/2021 11:40	Temperature	21.28	C
GN-AP-MW-19	9/22/2021 11:40	Turbidity	0.63	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-5	9/27/2021 11:49	Conductivity	430.63	uS/cm
GN-AP-MW-5	9/27/2021 11:49	DO	4	mg/L
GN-AP-MW-5	9/27/2021 11:49	Depth to Water Detail	15.15	ft
GN-AP-MW-5	9/27/2021 11:49	Oxidation Reduction Potention	86.32	mv
GN-AP-MW-5	9/27/2021 11:49	pH	7.52	SU
GN-AP-MW-5	9/27/2021 11:49	Temperature	21.44	C
GN-AP-MW-5	9/27/2021 11:49	Turbidity	4.1	NTU
GN-AP-MW-5	9/27/2021 11:54	Conductivity	429.89	uS/cm
GN-AP-MW-5	9/27/2021 11:54	DO	4.01	mg/L
GN-AP-MW-5	9/27/2021 11:54	Depth to Water Detail	15.15	ft
GN-AP-MW-5	9/27/2021 11:54	Oxidation Reduction Potention	78.47	mv
GN-AP-MW-5	9/27/2021 11:54	pH	7.55	SU
GN-AP-MW-5	9/27/2021 11:54	Temperature	21.45	C
GN-AP-MW-5	9/27/2021 11:54	Turbidity	4.28	NTU
GN-AP-MW-5	9/27/2021 11:59	Conductivity	430.27	uS/cm
GN-AP-MW-5	9/27/2021 11:59	DO	4.04	mg/L
GN-AP-MW-5	9/27/2021 11:59	Depth to Water Detail	15.15	ft
GN-AP-MW-5	9/27/2021 11:59	Oxidation Reduction Potention	70.83	mv
GN-AP-MW-5	9/27/2021 11:59	pH	7.56	SU
GN-AP-MW-5	9/27/2021 11:59	Temperature	21.3	C
GN-AP-MW-5	9/27/2021 11:59	Turbidity	4.17	NTU
GN-AP-MW-5	9/27/2021 12:04	Conductivity	429.98	uS/cm
GN-AP-MW-5	9/27/2021 12:04	DO	4.02	mg/L
GN-AP-MW-5	9/27/2021 12:04	Depth to Water Detail	15.15	ft
GN-AP-MW-5	9/27/2021 12:04	Oxidation Reduction Potention	67.21	mv
GN-AP-MW-5	9/27/2021 12:04	pH	7.55	SU
GN-AP-MW-5	9/27/2021 12:04	Temperature	21.35	C
GN-AP-MW-5	9/27/2021 12:04	Turbidity	3.59	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-6	9/27/2021 14:57	Conductivity	646.88	uS/cm
GN-AP-MW-6	9/27/2021 14:57	DO	0.66	mg/L
GN-AP-MW-6	9/27/2021 14:57	Depth to Water Detail	13.5	ft
GN-AP-MW-6	9/27/2021 14:57	Oxidation Reduction Potention	21.88	mv
GN-AP-MW-6	9/27/2021 14:57	pH	7.91	SU
GN-AP-MW-6	9/27/2021 14:57	Temperature	20.06	C
GN-AP-MW-6	9/27/2021 14:57	Turbidity	1.58	NTU
GN-AP-MW-6	9/27/2021 15:02	Conductivity	645.45	uS/cm
GN-AP-MW-6	9/27/2021 15:02	DO	0.26	mg/L
GN-AP-MW-6	9/27/2021 15:02	Depth to Water Detail	13.5	ft
GN-AP-MW-6	9/27/2021 15:02	Oxidation Reduction Potention	17.71	mv
GN-AP-MW-6	9/27/2021 15:02	pH	7.94	SU
GN-AP-MW-6	9/27/2021 15:02	Temperature	20.12	C
GN-AP-MW-6	9/27/2021 15:02	Turbidity	2	NTU
GN-AP-MW-6	9/27/2021 15:07	Conductivity	645.06	uS/cm
GN-AP-MW-6	9/27/2021 15:07	DO	0.2	mg/L
GN-AP-MW-6	9/27/2021 15:07	Depth to Water Detail	13.5	ft
GN-AP-MW-6	9/27/2021 15:07	Oxidation Reduction Potention	16.29	mv
GN-AP-MW-6	9/27/2021 15:07	pH	7.91	SU
GN-AP-MW-6	9/27/2021 15:07	Temperature	20.11	C
GN-AP-MW-6	9/27/2021 15:07	Turbidity	1.5	NTU
GN-AP-MW-6	9/27/2021 15:12	Conductivity	645.12	uS/cm
GN-AP-MW-6	9/27/2021 15:12	DO	0.19	mg/L
GN-AP-MW-6	9/27/2021 15:12	Depth to Water Detail	13.5	ft
GN-AP-MW-6	9/27/2021 15:12	Oxidation Reduction Potention	13.8	mv
GN-AP-MW-6	9/27/2021 15:12	pH	7.92	SU
GN-AP-MW-6	9/27/2021 15:12	Temperature	19.96	C
GN-AP-MW-6	9/27/2021 15:12	Turbidity	1.3	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-7	9/27/2021 15:41	Conductivity	581.7	uS/cm
GN-AP-MW-7	9/27/2021 15:41	DO	0.2	mg/L
GN-AP-MW-7	9/27/2021 15:41	Depth to Water Detail	7	ft
GN-AP-MW-7	9/27/2021 15:41	Oxidation Reduction Potention	65.23	mv
GN-AP-MW-7	9/27/2021 15:41	pH	7.72	SU
GN-AP-MW-7	9/27/2021 15:41	Temperature	19.76	C
GN-AP-MW-7	9/27/2021 15:41	Turbidity	4.02	NTU
GN-AP-MW-7	9/27/2021 15:46	Conductivity	575.33	uS/cm
GN-AP-MW-7	9/27/2021 15:46	DO	0.11	mg/L
GN-AP-MW-7	9/27/2021 15:46	Depth to Water Detail	7	ft
GN-AP-MW-7	9/27/2021 15:46	Oxidation Reduction Potention	51.48	mv
GN-AP-MW-7	9/27/2021 15:46	pH	7.73	SU
GN-AP-MW-7	9/27/2021 15:46	Temperature	19.45	C
GN-AP-MW-7	9/27/2021 15:46	Turbidity	2.67	NTU
GN-AP-MW-7	9/27/2021 15:51	Conductivity	572.76	uS/cm
GN-AP-MW-7	9/27/2021 15:51	DO	0.1	mg/L
GN-AP-MW-7	9/27/2021 15:51	Depth to Water Detail	7	ft
GN-AP-MW-7	9/27/2021 15:51	Oxidation Reduction Potention	44.07	mv
GN-AP-MW-7	9/27/2021 15:51	pH	7.74	SU
GN-AP-MW-7	9/27/2021 15:51	Temperature	19.44	C
GN-AP-MW-7	9/27/2021 15:51	Turbidity	1.76	NTU
GN-AP-MW-7	9/27/2021 15:56	Conductivity	571.39	uS/cm
GN-AP-MW-7	9/27/2021 15:56	DO	0.1	mg/L
GN-AP-MW-7	9/27/2021 15:56	Depth to Water Detail	7	ft
GN-AP-MW-7	9/27/2021 15:56	Oxidation Reduction Potention	40	mv
GN-AP-MW-7	9/27/2021 15:56	pH	7.74	SU
GN-AP-MW-7	9/27/2021 15:56	Temperature	19.47	C
GN-AP-MW-7	9/27/2021 15:56	Turbidity	1.4	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-15R	9/28/2021 8:27	Conductivity	911.36	uS/cm
GN-AP-MW-15R	9/28/2021 8:27	DO	0.24	mg/L
GN-AP-MW-15R	9/28/2021 8:27	Depth to Water Detail	45.17	ft
GN-AP-MW-15R	9/28/2021 8:27	Oxidation Reduction Potention	66.11	mv
GN-AP-MW-15R	9/28/2021 8:27	pH	7.64	SU
GN-AP-MW-15R	9/28/2021 8:27	Temperature	19.8	C
GN-AP-MW-15R	9/28/2021 8:27	Turbidity	2.22	NTU
GN-AP-MW-15R	9/28/2021 8:32	Conductivity	909.43	uS/cm
GN-AP-MW-15R	9/28/2021 8:32	DO	0.18	mg/L
GN-AP-MW-15R	9/28/2021 8:32	Depth to Water Detail	46.15	ft
GN-AP-MW-15R	9/28/2021 8:32	Oxidation Reduction Potention	37.05	mv
GN-AP-MW-15R	9/28/2021 8:32	pH	7.63	SU
GN-AP-MW-15R	9/28/2021 8:32	Temperature	19.78	C
GN-AP-MW-15R	9/28/2021 8:32	Turbidity	0.89	NTU
GN-AP-MW-15R	9/28/2021 8:37	Conductivity	908.9	uS/cm
GN-AP-MW-15R	9/28/2021 8:37	DO	0.16	mg/L
GN-AP-MW-15R	9/28/2021 8:37	Depth to Water Detail	47.2	ft
GN-AP-MW-15R	9/28/2021 8:37	Oxidation Reduction Potention	16.09	mv
GN-AP-MW-15R	9/28/2021 8:37	pH	7.64	SU
GN-AP-MW-15R	9/28/2021 8:37	Temperature	19.8	C
GN-AP-MW-15R	9/28/2021 8:37	Turbidity	0.89	NTU
GN-AP-MW-15R	9/28/2021 8:42	Conductivity	907.77	uS/cm
GN-AP-MW-15R	9/28/2021 8:42	DO	0.25	mg/L
GN-AP-MW-15R	9/28/2021 8:42	Depth to Water Detail	46.98	ft
GN-AP-MW-15R	9/28/2021 8:42	Oxidation Reduction Potention	11.69	mv
GN-AP-MW-15R	9/28/2021 8:42	pH	7.63	SU
GN-AP-MW-15R	9/28/2021 8:42	Temperature	19.77	C
GN-AP-MW-15R	9/28/2021 8:42	Turbidity	0.83	NTU
GN-AP-MW-15R	9/28/2021 8:47	Conductivity	907.35	uS/cm
GN-AP-MW-15R	9/28/2021 8:47	DO	0.29	mg/L
GN-AP-MW-15R	9/28/2021 8:47	Depth to Water Detail	46.35	ft
GN-AP-MW-15R	9/28/2021 8:47	Oxidation Reduction Potention	-3.33	mv
GN-AP-MW-15R	9/28/2021 8:47	pH	7.63	SU
GN-AP-MW-15R	9/28/2021 8:47	Temperature	19.79	C
GN-AP-MW-15R	9/28/2021 8:47	Turbidity	0.88	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-16	9/28/2021 11:37	Conductivity	532.85	uS/cm
GN-AP-MW-16	9/28/2021 11:37	DO	0.16	mg/L
GN-AP-MW-16	9/28/2021 11:37	Depth to Water Detail	22.65	ft
GN-AP-MW-16	9/28/2021 11:37	Oxidation Reduction Potention	-101.82	mv
GN-AP-MW-16	9/28/2021 11:37	pH	8.28	SU
GN-AP-MW-16	9/28/2021 11:37	Temperature	21.04	C
GN-AP-MW-16	9/28/2021 11:37	Turbidity	5.62	NTU
GN-AP-MW-16	9/28/2021 11:42	Conductivity	537.65	uS/cm
GN-AP-MW-16	9/28/2021 11:42	DO	0.15	mg/L
GN-AP-MW-16	9/28/2021 11:42	Depth to Water Detail	22.65	ft
GN-AP-MW-16	9/28/2021 11:42	Oxidation Reduction Potention	-130.47	mv
GN-AP-MW-16	9/28/2021 11:42	pH	8.22	SU
GN-AP-MW-16	9/28/2021 11:42	Temperature	21.05	C
GN-AP-MW-16	9/28/2021 11:42	Turbidity	4.07	NTU
GN-AP-MW-16	9/28/2021 11:47	Conductivity	541.23	uS/cm
GN-AP-MW-16	9/28/2021 11:47	DO	0.14	mg/L
GN-AP-MW-16	9/28/2021 11:47	Depth to Water Detail	22.65	ft
GN-AP-MW-16	9/28/2021 11:47	Oxidation Reduction Potention	-146.9	mv
GN-AP-MW-16	9/28/2021 11:47	pH	8.21	SU
GN-AP-MW-16	9/28/2021 11:47	Temperature	21.06	C
GN-AP-MW-16	9/28/2021 11:47	Turbidity	2.91	NTU
GN-AP-MW-16	9/28/2021 11:52	Conductivity	542.86	uS/cm
GN-AP-MW-16	9/28/2021 11:52	DO	0.13	mg/L
GN-AP-MW-16	9/28/2021 11:52	Depth to Water Detail	22.65	ft
GN-AP-MW-16	9/28/2021 11:52	Oxidation Reduction Potention	-156.71	mv
GN-AP-MW-16	9/28/2021 11:52	pH	8.2	SU
GN-AP-MW-16	9/28/2021 11:52	Temperature	21.09	C
GN-AP-MW-16	9/28/2021 11:52	Turbidity	2.7	NTU

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Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-16V	9/28/2021 9:56	Conductivity	480.43	uS/cm
GN-AP-MW-16V	9/28/2021 9:56	DO	0.48	mg/L
GN-AP-MW-16V	9/28/2021 9:56	Depth to Water Detail	19.95	ft
GN-AP-MW-16V	9/28/2021 9:56	Oxidation Reduction Potention	31.68	mv
GN-AP-MW-16V	9/28/2021 9:56	pH	8.46	SU
GN-AP-MW-16V	9/28/2021 9:56	Temperature	20.69	C
GN-AP-MW-16V	9/28/2021 9:56	Turbidity	5.75	NTU
GN-AP-MW-16V	9/28/2021 10:01	Conductivity	482.65	uS/cm
GN-AP-MW-16V	9/28/2021 10:01	DO	0.41	mg/L
GN-AP-MW-16V	9/28/2021 10:01	Depth to Water Detail	20.6	ft
GN-AP-MW-16V	9/28/2021 10:01	Oxidation Reduction Potention	6.77	mv
GN-AP-MW-16V	9/28/2021 10:01	pH	8.56	SU
GN-AP-MW-16V	9/28/2021 10:01	Temperature	20.7	C
GN-AP-MW-16V	9/28/2021 10:01	Turbidity	3.23	NTU
GN-AP-MW-16V	9/28/2021 10:06	Conductivity	482.8	uS/cm
GN-AP-MW-16V	9/28/2021 10:06	DO	0.39	mg/L
GN-AP-MW-16V	9/28/2021 10:06	Depth to Water Detail	21	ft
GN-AP-MW-16V	9/28/2021 10:06	Oxidation Reduction Potention	-9.62	mv
GN-AP-MW-16V	9/28/2021 10:06	pH	8.58	SU
GN-AP-MW-16V	9/28/2021 10:06	Temperature	20.7	C
GN-AP-MW-16V	9/28/2021 10:06	Turbidity	2.02	NTU
GN-AP-MW-16V	9/28/2021 10:11	Conductivity	483.26	uS/cm
GN-AP-MW-16V	9/28/2021 10:11	DO	0.38	mg/L
GN-AP-MW-16V	9/28/2021 10:11	Depth to Water Detail	21.24	ft
GN-AP-MW-16V	9/28/2021 10:11	Oxidation Reduction Potention	-25.08	mv
GN-AP-MW-16V	9/28/2021 10:11	pH	8.59	SU
GN-AP-MW-16V	9/28/2021 10:11	Temperature	20.71	C
GN-AP-MW-16V	9/28/2021 10:11	Turbidity	1.74	NTU
GN-AP-MW-16V	9/28/2021 10:16	Conductivity	481.82	uS/cm
GN-AP-MW-16V	9/28/2021 10:16	DO	0.39	mg/L
GN-AP-MW-16V	9/28/2021 10:16	Depth to Water Detail	21.54	ft
GN-AP-MW-16V	9/28/2021 10:16	Oxidation Reduction Potention	-38.42	mv
GN-AP-MW-16V	9/28/2021 10:16	pH	8.6	SU
GN-AP-MW-16V	9/28/2021 10:16	Temperature	20.74	C
GN-AP-MW-16V	9/28/2021 10:16	Turbidity	1.44	NTU
GN-AP-MW-16V	9/28/2021 10:21	Conductivity	481.09	uS/cm
GN-AP-MW-16V	9/28/2021 10:21	DO	0.4	mg/L
GN-AP-MW-16V	9/28/2021 10:21	Depth to Water Detail	21.71	ft
GN-AP-MW-16V	9/28/2021 10:21	Oxidation Reduction Potention	-57.59	mv
GN-AP-MW-16V	9/28/2021 10:21	pH	8.58	SU
GN-AP-MW-16V	9/28/2021 10:21	Temperature	20.75	C
GN-AP-MW-16V	9/28/2021 10:21	Turbidity	1.32	NTU
GN-AP-MW-16V	9/28/2021 10:26	Conductivity	479.78	uS/cm
GN-AP-MW-16V	9/28/2021 10:26	DO	0.41	mg/L
GN-AP-MW-16V	9/28/2021 10:26	Depth to Water Detail	21.92	ft
GN-AP-MW-16V	9/28/2021 10:26	Oxidation Reduction Potention	-74.91	mv

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Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-16V	9/28/2021 10:26	pH	8.58	SU
GN-AP-MW-16V	9/28/2021 10:26	Temperature	20.76	C
GN-AP-MW-16V	9/28/2021 10:26	Turbidity	1.31	NTU
GN-AP-MW-16V	9/28/2021 10:31	Conductivity	479.99	uS/cm
GN-AP-MW-16V	9/28/2021 10:31	DO	0.53	mg/L
GN-AP-MW-16V	9/28/2021 10:31	Depth to Water Detail	21.9	ft
GN-AP-MW-16V	9/28/2021 10:31	Oxidation Reduction Potention	-83.39	mv
GN-AP-MW-16V	9/28/2021 10:31	pH	8.58	SU
GN-AP-MW-16V	9/28/2021 10:31	Temperature	20.92	C
GN-AP-MW-16V	9/28/2021 10:31	Turbidity	1.26	NTU
GN-AP-MW-16V	9/28/2021 10:36	Conductivity	480.89	uS/cm
GN-AP-MW-16V	9/28/2021 10:36	DO	0.56	mg/L
GN-AP-MW-16V	9/28/2021 10:36	Depth to Water Detail	21.8	ft
GN-AP-MW-16V	9/28/2021 10:36	Oxidation Reduction Potention	-86.37	mv
GN-AP-MW-16V	9/28/2021 10:36	pH	8.59	SU
GN-AP-MW-16V	9/28/2021 10:36	Temperature	20.91	C
GN-AP-MW-16V	9/28/2021 10:36	Turbidity	1.27	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-28H	9/28/2021 12:36	Conductivity	451.08	uS/cm
GN-AP-MW-28H	9/28/2021 12:36	DO	0.16	mg/L
GN-AP-MW-28H	9/28/2021 12:36	Depth to Water Detail	15.4	ft
GN-AP-MW-28H	9/28/2021 12:36	Oxidation Reduction Potention	-208.26	mv
GN-AP-MW-28H	9/28/2021 12:36	pH	8.36	SU
GN-AP-MW-28H	9/28/2021 12:36	Temperature	21.52	C
GN-AP-MW-28H	9/28/2021 12:36	Turbidity	1.38	NTU
GN-AP-MW-28H	9/28/2021 12:41	Conductivity	449.99	uS/cm
GN-AP-MW-28H	9/28/2021 12:41	DO	0.17	mg/L
GN-AP-MW-28H	9/28/2021 12:41	Depth to Water Detail	15.95	ft
GN-AP-MW-28H	9/28/2021 12:41	Oxidation Reduction Potention	-210.35	mv
GN-AP-MW-28H	9/28/2021 12:41	pH	8.38	SU
GN-AP-MW-28H	9/28/2021 12:41	Temperature	21.51	C
GN-AP-MW-28H	9/28/2021 12:41	Turbidity	0.98	NTU
GN-AP-MW-28H	9/28/2021 12:46	Conductivity	449.33	uS/cm
GN-AP-MW-28H	9/28/2021 12:46	DO	0.19	mg/L
GN-AP-MW-28H	9/28/2021 12:46	Depth to Water Detail	16.05	ft
GN-AP-MW-28H	9/28/2021 12:46	Oxidation Reduction Potention	-210.63	mv
GN-AP-MW-28H	9/28/2021 12:46	pH	8.4	SU
GN-AP-MW-28H	9/28/2021 12:46	Temperature	21.45	C
GN-AP-MW-28H	9/28/2021 12:46	Turbidity	0.84	NTU
GN-AP-MW-28H	9/28/2021 12:51	Conductivity	449.4	uS/cm
GN-AP-MW-28H	9/28/2021 12:51	DO	0.19	mg/L
GN-AP-MW-28H	9/28/2021 12:51	Depth to Water Detail	16.3	ft
GN-AP-MW-28H	9/28/2021 12:51	Oxidation Reduction Potention	-209.44	mv
GN-AP-MW-28H	9/28/2021 12:51	pH	8.41	SU
GN-AP-MW-28H	9/28/2021 12:51	Temperature	21.43	C
GN-AP-MW-28H	9/28/2021 12:51	Turbidity	0.75	NTU
GN-AP-MW-28H	9/28/2021 12:56	Conductivity	449.05	uS/cm
GN-AP-MW-28H	9/28/2021 12:56	DO	0.18	mg/L
GN-AP-MW-28H	9/28/2021 12:56	Depth to Water Detail	16.5	ft
GN-AP-MW-28H	9/28/2021 12:56	Oxidation Reduction Potention	-208.54	mv
GN-AP-MW-28H	9/28/2021 12:56	pH	8.42	SU
GN-AP-MW-28H	9/28/2021 12:56	Temperature	21.42	C
GN-AP-MW-28H	9/28/2021 12:56	Turbidity	1.29	NTU
GN-AP-MW-28H	9/28/2021 13:01	Conductivity	448.5	uS/cm
GN-AP-MW-28H	9/28/2021 13:01	DO	0.19	mg/L
GN-AP-MW-28H	9/28/2021 13:01	Depth to Water Detail	16.56	ft
GN-AP-MW-28H	9/28/2021 13:01	Oxidation Reduction Potention	-205.79	mv
GN-AP-MW-28H	9/28/2021 13:01	pH	8.38	SU
GN-AP-MW-28H	9/28/2021 13:01	Temperature	21.44	C
GN-AP-MW-28H	9/28/2021 13:01	Turbidity	1.77	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-29H	9/28/2021 13:33	Conductivity	542.26	uS/cm
GN-AP-MW-29H	9/28/2021 13:33	DO	0.14	mg/L
GN-AP-MW-29H	9/28/2021 13:33	Depth to Water Detail	8.65	ft
GN-AP-MW-29H	9/28/2021 13:33	Oxidation Reduction Potention	-224.81	mv
GN-AP-MW-29H	9/28/2021 13:33	pH	8.56	SU
GN-AP-MW-29H	9/28/2021 13:33	Temperature	22.67	C
GN-AP-MW-29H	9/28/2021 13:33	Turbidity	0.85	NTU
GN-AP-MW-29H	9/28/2021 13:38	Conductivity	541.52	uS/cm
GN-AP-MW-29H	9/28/2021 13:38	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 13:38	Depth to Water Detail	11.3	ft
GN-AP-MW-29H	9/28/2021 13:38	Oxidation Reduction Potention	-230.05	mv
GN-AP-MW-29H	9/28/2021 13:38	pH	8.57	SU
GN-AP-MW-29H	9/28/2021 13:38	Temperature	22.46	C
GN-AP-MW-29H	9/28/2021 13:38	Turbidity	0.73	NTU
GN-AP-MW-29H	9/28/2021 13:43	Conductivity	541.18	uS/cm
GN-AP-MW-29H	9/28/2021 13:43	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 13:43	Depth to Water Detail	13.95	ft
GN-AP-MW-29H	9/28/2021 13:43	Oxidation Reduction Potention	-233.65	mv
GN-AP-MW-29H	9/28/2021 13:43	pH	8.59	SU
GN-AP-MW-29H	9/28/2021 13:43	Temperature	22.5	C
GN-AP-MW-29H	9/28/2021 13:43	Turbidity	0.7	NTU
GN-AP-MW-29H	9/28/2021 13:48	Conductivity	541.1	uS/cm
GN-AP-MW-29H	9/28/2021 13:48	DO	0.17	mg/L
GN-AP-MW-29H	9/28/2021 13:48	Depth to Water Detail	17.4	ft
GN-AP-MW-29H	9/28/2021 13:48	Oxidation Reduction Potention	-235.74	mv
GN-AP-MW-29H	9/28/2021 13:48	pH	8.6	SU
GN-AP-MW-29H	9/28/2021 13:48	Temperature	22.62	C
GN-AP-MW-29H	9/28/2021 13:48	Turbidity	0.75	NTU
GN-AP-MW-29H	9/28/2021 13:53	Conductivity	540.35	uS/cm
GN-AP-MW-29H	9/28/2021 13:53	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 13:53	Depth to Water Detail	20.4	ft
GN-AP-MW-29H	9/28/2021 13:53	Oxidation Reduction Potention	-239.34	mv
GN-AP-MW-29H	9/28/2021 13:53	pH	8.61	SU
GN-AP-MW-29H	9/28/2021 13:53	Temperature	22.23	C
GN-AP-MW-29H	9/28/2021 13:53	Turbidity	0.69	NTU
GN-AP-MW-29H	9/28/2021 13:58	Conductivity	540.59	uS/cm
GN-AP-MW-29H	9/28/2021 13:58	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 13:58	Depth to Water Detail	22.43	ft
GN-AP-MW-29H	9/28/2021 13:58	Oxidation Reduction Potention	-242.87	mv
GN-AP-MW-29H	9/28/2021 13:58	pH	8.64	SU
GN-AP-MW-29H	9/28/2021 13:58	Temperature	22.09	C
GN-AP-MW-29H	9/28/2021 13:58	Turbidity	0.69	NTU
GN-AP-MW-29H	9/28/2021 14:03	Conductivity	539.87	uS/cm
GN-AP-MW-29H	9/28/2021 14:03	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 14:03	Depth to Water Detail	25.25	ft
GN-AP-MW-29H	9/28/2021 14:03	Oxidation Reduction Potention	-244.51	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-29H	9/28/2021 14:03	pH	8.65	SU
GN-AP-MW-29H	9/28/2021 14:03	Temperature	22.03	C
GN-AP-MW-29H	9/28/2021 14:03	Turbidity	0.84	NTU
GN-AP-MW-29H	9/28/2021 14:08	Conductivity	539.53	uS/cm
GN-AP-MW-29H	9/28/2021 14:08	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 14:08	Depth to Water Detail	28.6	ft
GN-AP-MW-29H	9/28/2021 14:08	Oxidation Reduction Potention	-245.87	mv
GN-AP-MW-29H	9/28/2021 14:08	pH	8.64	SU
GN-AP-MW-29H	9/28/2021 14:08	Temperature	22.01	C
GN-AP-MW-29H	9/28/2021 14:08	Turbidity	0.64	NTU
GN-AP-MW-29H	9/28/2021 14:13	Conductivity	539.6	uS/cm
GN-AP-MW-29H	9/28/2021 14:13	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 14:13	Depth to Water Detail	31	ft
GN-AP-MW-29H	9/28/2021 14:13	Oxidation Reduction Potention	-248.08	mv
GN-AP-MW-29H	9/28/2021 14:13	pH	8.66	SU
GN-AP-MW-29H	9/28/2021 14:13	Temperature	21.87	C
GN-AP-MW-29H	9/28/2021 14:13	Turbidity	0.65	NTU
GN-AP-MW-29H	9/28/2021 14:18	Conductivity	538.97	uS/cm
GN-AP-MW-29H	9/28/2021 14:18	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 14:18	Depth to Water Detail	33.2	ft
GN-AP-MW-29H	9/28/2021 14:18	Oxidation Reduction Potention	-249.68	mv
GN-AP-MW-29H	9/28/2021 14:18	pH	8.66	SU
GN-AP-MW-29H	9/28/2021 14:18	Temperature	21.85	C
GN-AP-MW-29H	9/28/2021 14:18	Turbidity	0.71	NTU
GN-AP-MW-29H	9/28/2021 14:23	Conductivity	538.89	uS/cm
GN-AP-MW-29H	9/28/2021 14:23	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 14:23	Depth to Water Detail	38.35	ft
GN-AP-MW-29H	9/28/2021 14:23	Oxidation Reduction Potention	-250.47	mv
GN-AP-MW-29H	9/28/2021 14:23	pH	8.65	SU
GN-AP-MW-29H	9/28/2021 14:23	Temperature	21.9	C
GN-AP-MW-29H	9/28/2021 14:23	Turbidity	0.75	NTU
GN-AP-MW-29H	9/28/2021 14:28	Conductivity	538.84	uS/cm
GN-AP-MW-29H	9/28/2021 14:28	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 14:28	Depth to Water Detail	39.62	ft
GN-AP-MW-29H	9/28/2021 14:28	Oxidation Reduction Potention	-251.43	mv
GN-AP-MW-29H	9/28/2021 14:28	pH	8.65	SU
GN-AP-MW-29H	9/28/2021 14:28	Temperature	21.82	C
GN-AP-MW-29H	9/28/2021 14:28	Turbidity	0.7	NTU
GN-AP-MW-29H	9/28/2021 14:33	Conductivity	538.69	uS/cm
GN-AP-MW-29H	9/28/2021 14:33	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 14:33	Depth to Water Detail	41.85	ft
GN-AP-MW-29H	9/28/2021 14:33	Oxidation Reduction Potention	-252.12	mv
GN-AP-MW-29H	9/28/2021 14:33	pH	8.64	SU
GN-AP-MW-29H	9/28/2021 14:33	Temperature	21.71	C
GN-AP-MW-29H	9/28/2021 14:33	Turbidity	0.67	NTU
GN-AP-MW-29H	9/28/2021 14:38	Conductivity	537.93	uS/cm

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-29H	9/28/2021 14:38	DO	0.15	mg/L
GN-AP-MW-29H	9/28/2021 14:38	Depth to Water Detail	43.82	ft
GN-AP-MW-29H	9/28/2021 14:38	Oxidation Reduction Potention	-252.98	mv
GN-AP-MW-29H	9/28/2021 14:38	pH	8.6	SU
GN-AP-MW-29H	9/28/2021 14:38	Temperature	21.73	C
GN-AP-MW-29H	9/28/2021 14:38	Turbidity	0.71	NTU
GN-AP-MW-29H	9/28/2021 14:43	Conductivity	538.3	uS/cm
GN-AP-MW-29H	9/28/2021 14:43	DO	0.21	mg/L
GN-AP-MW-29H	9/28/2021 14:43	Depth to Water Detail	44.7	ft
GN-AP-MW-29H	9/28/2021 14:43	Oxidation Reduction Potention	-247.05	mv
GN-AP-MW-29H	9/28/2021 14:43	pH	8.58	SU
GN-AP-MW-29H	9/28/2021 14:43	Temperature	22.74	C
GN-AP-MW-29H	9/28/2021 14:43	Turbidity	0.64	NTU
GN-AP-MW-29H	9/28/2021 14:48	Conductivity	536.59	uS/cm
GN-AP-MW-29H	9/28/2021 14:48	DO	0.28	mg/L
GN-AP-MW-29H	9/28/2021 14:48	Depth to Water Detail	45.25	ft
GN-AP-MW-29H	9/28/2021 14:48	Oxidation Reduction Potention	-238.09	mv
GN-AP-MW-29H	9/28/2021 14:48	pH	8.59	SU
GN-AP-MW-29H	9/28/2021 14:48	Temperature	22.79	C
GN-AP-MW-29H	9/28/2021 14:48	Turbidity	0.71	NTU
GN-AP-MW-29H	9/28/2021 14:53	Conductivity	538.35	uS/cm
GN-AP-MW-29H	9/28/2021 14:53	DO	0.37	mg/L
GN-AP-MW-29H	9/28/2021 14:53	Depth to Water Detail	45.2	ft
GN-AP-MW-29H	9/28/2021 14:53	Oxidation Reduction Potention	-233.47	mv
GN-AP-MW-29H	9/28/2021 14:53	pH	8.56	SU
GN-AP-MW-29H	9/28/2021 14:53	Temperature	23.84	C
GN-AP-MW-29H	9/28/2021 14:53	Turbidity	0.78	NTU
GN-AP-MW-29H	9/28/2021 14:58	Conductivity	538.89	uS/cm
GN-AP-MW-29H	9/28/2021 14:58	DO	0.42	mg/L
GN-AP-MW-29H	9/28/2021 14:58	Depth to Water Detail	45.1	ft
GN-AP-MW-29H	9/28/2021 14:58	Oxidation Reduction Potention	-227.18	mv
GN-AP-MW-29H	9/28/2021 14:58	pH	8.58	SU
GN-AP-MW-29H	9/28/2021 14:58	Temperature	23.82	C
GN-AP-MW-29H	9/28/2021 14:58	Turbidity	0.66	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-30H	9/29/2021 11:31	Conductivity	943.28	uS/cm
GN-AP-MW-30H	9/29/2021 11:31	DO	0.29	mg/L
GN-AP-MW-30H	9/29/2021 11:31	Depth to Water Detail	43.95	ft
GN-AP-MW-30H	9/29/2021 11:31	Oxidation Reduction Potention	-174.07	mv
GN-AP-MW-30H	9/29/2021 11:31	pH	8.03	SU
GN-AP-MW-30H	9/29/2021 11:31	Temperature	21.4	C
GN-AP-MW-30H	9/29/2021 11:31	Turbidity	0.94	NTU
GN-AP-MW-30H	9/29/2021 11:36	Conductivity	859.3	uS/cm
GN-AP-MW-30H	9/29/2021 11:36	DO	0.21	mg/L
GN-AP-MW-30H	9/29/2021 11:36	Depth to Water Detail	44.23	ft
GN-AP-MW-30H	9/29/2021 11:36	Oxidation Reduction Potention	-169.58	mv
GN-AP-MW-30H	9/29/2021 11:36	pH	7.91	SU
GN-AP-MW-30H	9/29/2021 11:36	Temperature	20.88	C
GN-AP-MW-30H	9/29/2021 11:36	Turbidity	0.77	NTU
GN-AP-MW-30H	9/29/2021 11:41	Conductivity	807.29	uS/cm
GN-AP-MW-30H	9/29/2021 11:41	DO	0.19	mg/L
GN-AP-MW-30H	9/29/2021 11:41	Depth to Water Detail	44.23	ft
GN-AP-MW-30H	9/29/2021 11:41	Oxidation Reduction Potention	-164.04	mv
GN-AP-MW-30H	9/29/2021 11:41	pH	7.8	SU
GN-AP-MW-30H	9/29/2021 11:41	Temperature	21.09	C
GN-AP-MW-30H	9/29/2021 11:41	Turbidity	0.83	NTU
GN-AP-MW-30H	9/29/2021 11:46	Conductivity	774.69	uS/cm
GN-AP-MW-30H	9/29/2021 11:46	DO	0.19	mg/L
GN-AP-MW-30H	9/29/2021 11:46	Depth to Water Detail	44.23	ft
GN-AP-MW-30H	9/29/2021 11:46	Oxidation Reduction Potention	-159.7	mv
GN-AP-MW-30H	9/29/2021 11:46	pH	7.78	SU
GN-AP-MW-30H	9/29/2021 11:46	Temperature	21.08	C
GN-AP-MW-30H	9/29/2021 11:46	Turbidity	1.01	NTU
GN-AP-MW-30H	9/29/2021 11:51	Conductivity	753.25	uS/cm
GN-AP-MW-30H	9/29/2021 11:51	DO	0.19	mg/L
GN-AP-MW-30H	9/29/2021 11:51	Depth to Water Detail	44.3	ft
GN-AP-MW-30H	9/29/2021 11:51	Oxidation Reduction Potention	-158.75	mv
GN-AP-MW-30H	9/29/2021 11:51	pH	7.8	SU
GN-AP-MW-30H	9/29/2021 11:51	Temperature	21.27	C
GN-AP-MW-30H	9/29/2021 11:51	Turbidity	0.66	NTU
GN-AP-MW-30H	9/29/2021 11:56	Conductivity	744.84	uS/cm
GN-AP-MW-30H	9/29/2021 11:56	DO	0.19	mg/L
GN-AP-MW-30H	9/29/2021 11:56	Depth to Water Detail	44.3	ft
GN-AP-MW-30H	9/29/2021 11:56	Oxidation Reduction Potention	-160.18	mv
GN-AP-MW-30H	9/29/2021 11:56	pH	7.77	SU
GN-AP-MW-30H	9/29/2021 11:56	Temperature	20.9	C
GN-AP-MW-30H	9/29/2021 11:56	Turbidity	0.84	NTU
GN-AP-MW-30H	9/29/2021 12:01	Conductivity	736.42	uS/cm
GN-AP-MW-30H	9/29/2021 12:01	DO	0.18	mg/L
GN-AP-MW-30H	9/29/2021 12:01	Depth to Water Detail	44.3	ft
GN-AP-MW-30H	9/29/2021 12:01	Oxidation Reduction Potention	-161.68	mv

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-30H	9/29/2021 12:01	pH	7.73	SU
GN-AP-MW-30H	9/29/2021 12:01	Temperature	21.01	C
GN-AP-MW-30H	9/29/2021 12:01	Turbidity	0.71	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-31VR	9/29/2021 7:58	Conductivity	538.11	uS/cm
GN-AP-MW-31VR	9/29/2021 7:58	DO	0.17	mg/L
GN-AP-MW-31VR	9/29/2021 7:58	Depth to Water Detail	43.5	ft
GN-AP-MW-31VR	9/29/2021 7:58	Oxidation Reduction Potention	-262.19	mv
GN-AP-MW-31VR	9/29/2021 7:58	pH	8.17	SU
GN-AP-MW-31VR	9/29/2021 7:58	Temperature	20.13	C
GN-AP-MW-31VR	9/29/2021 7:58	Turbidity	1.02	NTU
GN-AP-MW-31VR	9/29/2021 8:03	Conductivity	534.73	uS/cm
GN-AP-MW-31VR	9/29/2021 8:03	DO	0.16	mg/L
GN-AP-MW-31VR	9/29/2021 8:03	Depth to Water Detail	44.1	ft
GN-AP-MW-31VR	9/29/2021 8:03	Oxidation Reduction Potention	-263.32	mv
GN-AP-MW-31VR	9/29/2021 8:03	pH	8.23	SU
GN-AP-MW-31VR	9/29/2021 8:03	Temperature	20.11	C
GN-AP-MW-31VR	9/29/2021 8:03	Turbidity	1.24	NTU
GN-AP-MW-31VR	9/29/2021 8:08	Conductivity	534.26	uS/cm
GN-AP-MW-31VR	9/29/2021 8:08	DO	0.26	mg/L
GN-AP-MW-31VR	9/29/2021 8:08	Depth to Water Detail	44.4	ft
GN-AP-MW-31VR	9/29/2021 8:08	Oxidation Reduction Potention	-257.4	mv
GN-AP-MW-31VR	9/29/2021 8:08	pH	8.23	SU
GN-AP-MW-31VR	9/29/2021 8:08	Temperature	20.47	C
GN-AP-MW-31VR	9/29/2021 8:08	Turbidity	0.82	NTU
GN-AP-MW-31VR	9/29/2021 8:13	Conductivity	533.35	uS/cm
GN-AP-MW-31VR	9/29/2021 8:13	DO	0.29	mg/L
GN-AP-MW-31VR	9/29/2021 8:13	Depth to Water Detail	44.5	ft
GN-AP-MW-31VR	9/29/2021 8:13	Oxidation Reduction Potention	-255.97	mv
GN-AP-MW-31VR	9/29/2021 8:13	pH	8.24	SU
GN-AP-MW-31VR	9/29/2021 8:13	Temperature	20.49	C
GN-AP-MW-31VR	9/29/2021 8:13	Turbidity	0.99	NTU
GN-AP-MW-31VR	9/29/2021 8:18	Conductivity	531.58	uS/cm
GN-AP-MW-31VR	9/29/2021 8:18	DO	0.35	mg/L
GN-AP-MW-31VR	9/29/2021 8:18	Depth to Water Detail	44.82	ft
GN-AP-MW-31VR	9/29/2021 8:18	Oxidation Reduction Potention	-253.41	mv
GN-AP-MW-31VR	9/29/2021 8:18	pH	8.24	SU
GN-AP-MW-31VR	9/29/2021 8:18	Temperature	20.58	C
GN-AP-MW-31VR	9/29/2021 8:18	Turbidity	0.73	NTU
GN-AP-MW-31VR	9/29/2021 8:23	Conductivity	525.97	uS/cm
GN-AP-MW-31VR	9/29/2021 8:23	DO	0.41	mg/L
GN-AP-MW-31VR	9/29/2021 8:23	Depth to Water Detail	45.11	ft
GN-AP-MW-31VR	9/29/2021 8:23	Oxidation Reduction Potention	-251.42	mv
GN-AP-MW-31VR	9/29/2021 8:23	pH	8.24	SU
GN-AP-MW-31VR	9/29/2021 8:23	Temperature	20.65	C
GN-AP-MW-31VR	9/29/2021 8:23	Turbidity	0.94	NTU
GN-AP-MW-31VR	9/29/2021 8:28	Conductivity	529.2	uS/cm
GN-AP-MW-31VR	9/29/2021 8:28	DO	0.46	mg/L
GN-AP-MW-31VR	9/29/2021 8:28	Depth to Water Detail	45.3	ft
GN-AP-MW-31VR	9/29/2021 8:28	Oxidation Reduction Potention	-250.59	mv

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-31VR	9/29/2021 8:28	pH	8.24	SU
GN-AP-MW-31VR	9/29/2021 8:28	Temperature	20.69	C
GN-AP-MW-31VR	9/29/2021 8:28	Turbidity	0.72	NTU
GN-AP-MW-31VR	9/29/2021 8:33	Conductivity	528.12	uS/cm
GN-AP-MW-31VR	9/29/2021 8:33	DO	0.49	mg/L
GN-AP-MW-31VR	9/29/2021 8:33	Depth to Water Detail	45.53	ft
GN-AP-MW-31VR	9/29/2021 8:33	Oxidation Reduction Potention	-250.64	mv
GN-AP-MW-31VR	9/29/2021 8:33	pH	8.25	SU
GN-AP-MW-31VR	9/29/2021 8:33	Temperature	20.75	C
GN-AP-MW-31VR	9/29/2021 8:33	Turbidity	1.3	NTU
GN-AP-MW-31VR	9/29/2021 8:38	Conductivity	528.89	uS/cm
GN-AP-MW-31VR	9/29/2021 8:38	DO	0.49	mg/L
GN-AP-MW-31VR	9/29/2021 8:38	Depth to Water Detail	45.68	ft
GN-AP-MW-31VR	9/29/2021 8:38	Oxidation Reduction Potention	-250.7	mv
GN-AP-MW-31VR	9/29/2021 8:38	pH	8.25	SU
GN-AP-MW-31VR	9/29/2021 8:38	Temperature	20.82	C
GN-AP-MW-31VR	9/29/2021 8:38	Turbidity	0.78	NTU
GN-AP-MW-31VR	9/29/2021 8:43	Conductivity	526.12	uS/cm
GN-AP-MW-31VR	9/29/2021 8:43	DO	0.5	mg/L
GN-AP-MW-31VR	9/29/2021 8:43	Depth to Water Detail	45.9	ft
GN-AP-MW-31VR	9/29/2021 8:43	Oxidation Reduction Potention	-250.21	mv
GN-AP-MW-31VR	9/29/2021 8:43	pH	8.25	SU
GN-AP-MW-31VR	9/29/2021 8:43	Temperature	20.9	C
GN-AP-MW-31VR	9/29/2021 8:43	Turbidity	0.73	NTU
GN-AP-MW-31VR	9/29/2021 8:48	Conductivity	520.71	uS/cm
GN-AP-MW-31VR	9/29/2021 8:48	DO	0.5	mg/L
GN-AP-MW-31VR	9/29/2021 8:48	Depth to Water Detail	46.14	ft
GN-AP-MW-31VR	9/29/2021 8:48	Oxidation Reduction Potention	-251.1	mv
GN-AP-MW-31VR	9/29/2021 8:48	pH	8.27	SU
GN-AP-MW-31VR	9/29/2021 8:48	Temperature	21.02	C
GN-AP-MW-31VR	9/29/2021 8:48	Turbidity	0.86	NTU
GN-AP-MW-31VR	9/29/2021 8:53	Conductivity	525.05	uS/cm
GN-AP-MW-31VR	9/29/2021 8:53	DO	0.51	mg/L
GN-AP-MW-31VR	9/29/2021 8:53	Depth to Water Detail	46.38	ft
GN-AP-MW-31VR	9/29/2021 8:53	Oxidation Reduction Potention	-250.65	mv
GN-AP-MW-31VR	9/29/2021 8:53	pH	8.28	SU
GN-AP-MW-31VR	9/29/2021 8:53	Temperature	21.06	C
GN-AP-MW-31VR	9/29/2021 8:53	Turbidity	1.08	NTU
GN-AP-MW-31VR	9/29/2021 8:58	Conductivity	521.69	uS/cm
GN-AP-MW-31VR	9/29/2021 8:58	DO	0.51	mg/L
GN-AP-MW-31VR	9/29/2021 8:58	Depth to Water Detail	46.6	ft
GN-AP-MW-31VR	9/29/2021 8:58	Oxidation Reduction Potention	-250.5	mv
GN-AP-MW-31VR	9/29/2021 8:58	pH	8.27	SU
GN-AP-MW-31VR	9/29/2021 8:58	Temperature	21.12	C
GN-AP-MW-31VR	9/29/2021 8:58	Turbidity	1.1	NTU
GN-AP-MW-31VR	9/29/2021 9:03	Conductivity	518.3	uS/cm

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-31VR	9/29/2021 9:03	DO	0.51	mg/L
GN-AP-MW-31VR	9/29/2021 9:03	Depth to Water Detail	46.83	ft
GN-AP-MW-31VR	9/29/2021 9:03	Oxidation Reduction Potention	-251.24	mv
GN-AP-MW-31VR	9/29/2021 9:03	pH	8.28	SU
GN-AP-MW-31VR	9/29/2021 9:03	Temperature	21.32	C
GN-AP-MW-31VR	9/29/2021 9:03	Turbidity	1.01	NTU
GN-AP-MW-31VR	9/29/2021 9:08	Conductivity	510.69	uS/cm
GN-AP-MW-31VR	9/29/2021 9:08	DO	0.5	mg/L
GN-AP-MW-31VR	9/29/2021 9:08	Depth to Water Detail	47.05	ft
GN-AP-MW-31VR	9/29/2021 9:08	Oxidation Reduction Potention	-251.58	mv
GN-AP-MW-31VR	9/29/2021 9:08	pH	8.3	SU
GN-AP-MW-31VR	9/29/2021 9:08	Temperature	21.47	C
GN-AP-MW-31VR	9/29/2021 9:08	Turbidity	0.84	NTU
GN-AP-MW-31VR	9/29/2021 9:13	Conductivity	521.52	uS/cm
GN-AP-MW-31VR	9/29/2021 9:13	DO	0.53	mg/L
GN-AP-MW-31VR	9/29/2021 9:13	Depth to Water Detail	47.28	ft
GN-AP-MW-31VR	9/29/2021 9:13	Oxidation Reduction Potention	-251.31	mv
GN-AP-MW-31VR	9/29/2021 9:13	pH	8.31	SU
GN-AP-MW-31VR	9/29/2021 9:13	Temperature	21.62	C
GN-AP-MW-31VR	9/29/2021 9:13	Turbidity	0.84	NTU
GN-AP-MW-31VR	9/29/2021 9:18	Conductivity	523.79	uS/cm
GN-AP-MW-31VR	9/29/2021 9:18	DO	0.53	mg/L
GN-AP-MW-31VR	9/29/2021 9:18	Depth to Water Detail	47.5	ft
GN-AP-MW-31VR	9/29/2021 9:18	Oxidation Reduction Potention	-251.62	mv
GN-AP-MW-31VR	9/29/2021 9:18	pH	8.32	SU
GN-AP-MW-31VR	9/29/2021 9:18	Temperature	21.64	C
GN-AP-MW-31VR	9/29/2021 9:18	Turbidity	0.68	NTU
GN-AP-MW-31VR	9/29/2021 9:23	Conductivity	526.83	uS/cm
GN-AP-MW-31VR	9/29/2021 9:23	DO	0.45	mg/L
GN-AP-MW-31VR	9/29/2021 9:23	Depth to Water Detail	47.85	ft
GN-AP-MW-31VR	9/29/2021 9:23	Oxidation Reduction Potention	-253.06	mv
GN-AP-MW-31VR	9/29/2021 9:23	pH	8.37	SU
GN-AP-MW-31VR	9/29/2021 9:23	Temperature	20.57	C
GN-AP-MW-31VR	9/29/2021 9:23	Turbidity	0.82	NTU
GN-AP-MW-31VR	9/29/2021 9:28	Conductivity	530.75	uS/cm
GN-AP-MW-31VR	9/29/2021 9:28	DO	0.31	mg/L
GN-AP-MW-31VR	9/29/2021 9:28	Depth to Water Detail	48.31	ft
GN-AP-MW-31VR	9/29/2021 9:28	Oxidation Reduction Potention	-258.8	mv
GN-AP-MW-31VR	9/29/2021 9:28	pH	8.38	SU
GN-AP-MW-31VR	9/29/2021 9:28	Temperature	20.7	C
GN-AP-MW-31VR	9/29/2021 9:28	Turbidity	0.93	NTU
GN-AP-MW-31VR	9/29/2021 9:33	Conductivity	527.69	uS/cm
GN-AP-MW-31VR	9/29/2021 9:33	DO	0.27	mg/L
GN-AP-MW-31VR	9/29/2021 9:33	Depth to Water Detail	49	ft
GN-AP-MW-31VR	9/29/2021 9:33	Oxidation Reduction Potention	-262.48	mv
GN-AP-MW-31VR	9/29/2021 9:33	pH	8.41	SU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-31VR	9/29/2021 9:33	Temperature	20.71	C
GN-AP-MW-31VR	9/29/2021 9:33	Turbidity	0.87	NTU
GN-AP-MW-31VR	9/29/2021 9:38	Conductivity	524.08	uS/cm
GN-AP-MW-31VR	9/29/2021 9:38	DO	0.27	mg/L
GN-AP-MW-31VR	9/29/2021 9:38	Depth to Water Detail	49.54	ft
GN-AP-MW-31VR	9/29/2021 9:38	Oxidation Reduction Potention	-262.68	mv
GN-AP-MW-31VR	9/29/2021 9:38	pH	8.43	SU
GN-AP-MW-31VR	9/29/2021 9:38	Temperature	20.44	C
GN-AP-MW-31VR	9/29/2021 9:38	Turbidity	0.72	NTU
GN-AP-MW-31VR	9/29/2021 9:43	Conductivity	528.87	uS/cm
GN-AP-MW-31VR	9/29/2021 9:43	DO	0.21	mg/L
GN-AP-MW-31VR	9/29/2021 9:43	Depth to Water Detail	50.4	ft
GN-AP-MW-31VR	9/29/2021 9:43	Oxidation Reduction Potention	-267.32	mv
GN-AP-MW-31VR	9/29/2021 9:43	pH	8.45	SU
GN-AP-MW-31VR	9/29/2021 9:43	Temperature	20.35	C
GN-AP-MW-31VR	9/29/2021 9:43	Turbidity	0.72	NTU
GN-AP-MW-31VR	9/29/2021 9:48	Conductivity	527.78	uS/cm
GN-AP-MW-31VR	9/29/2021 9:48	DO	0.2	mg/L
GN-AP-MW-31VR	9/29/2021 9:48	Depth to Water Detail	51.15	ft
GN-AP-MW-31VR	9/29/2021 9:48	Oxidation Reduction Potention	-267.82	mv
GN-AP-MW-31VR	9/29/2021 9:48	pH	8.46	SU
GN-AP-MW-31VR	9/29/2021 9:48	Temperature	20.34	C
GN-AP-MW-31VR	9/29/2021 9:48	Turbidity	0.74	NTU
GN-AP-MW-31VR	9/29/2021 9:53	Conductivity	526.18	uS/cm
GN-AP-MW-31VR	9/29/2021 9:53	DO	0.21	mg/L
GN-AP-MW-31VR	9/29/2021 9:53	Depth to Water Detail	52	ft
GN-AP-MW-31VR	9/29/2021 9:53	Oxidation Reduction Potention	-268.04	mv
GN-AP-MW-31VR	9/29/2021 9:53	pH	8.47	SU
GN-AP-MW-31VR	9/29/2021 9:53	Temperature	20.34	C
GN-AP-MW-31VR	9/29/2021 9:53	Turbidity	0.6	NTU
GN-AP-MW-31VR	9/29/2021 9:58	Conductivity	528.68	uS/cm
GN-AP-MW-31VR	9/29/2021 9:58	DO	0.21	mg/L
GN-AP-MW-31VR	9/29/2021 9:58	Depth to Water Detail	52.8	ft
GN-AP-MW-31VR	9/29/2021 9:58	Oxidation Reduction Potention	-267.83	mv
GN-AP-MW-31VR	9/29/2021 9:58	pH	8.48	SU
GN-AP-MW-31VR	9/29/2021 9:58	Temperature	20.39	C
GN-AP-MW-31VR	9/29/2021 9:58	Turbidity	0.64	NTU
GN-AP-MW-31VR	9/29/2021 10:03	Conductivity	531.25	uS/cm
GN-AP-MW-31VR	9/29/2021 10:03	DO	0.23	mg/L
GN-AP-MW-31VR	9/29/2021 10:03	Depth to Water Detail	53.6	ft
GN-AP-MW-31VR	9/29/2021 10:03	Oxidation Reduction Potention	-267.05	mv
GN-AP-MW-31VR	9/29/2021 10:03	pH	8.49	SU
GN-AP-MW-31VR	9/29/2021 10:03	Temperature	20.38	C
GN-AP-MW-31VR	9/29/2021 10:03	Turbidity	1.47	NTU
GN-AP-MW-31VR	9/29/2021 10:08	Conductivity	530.76	uS/cm
GN-AP-MW-31VR	9/29/2021 10:08	DO	0.27	mg/L

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-31VR	9/29/2021 10:08	Depth to Water Detail	54.3	ft
GN-AP-MW-31VR	9/29/2021 10:08	Oxidation Reduction Potention	-264.01	mv
GN-AP-MW-31VR	9/29/2021 10:08	pH	8.49	SU
GN-AP-MW-31VR	9/29/2021 10:08	Temperature	20.55	C
GN-AP-MW-31VR	9/29/2021 10:08	Turbidity	0.71	NTU
GN-AP-MW-31VR	9/29/2021 10:13	Conductivity	528.35	uS/cm
GN-AP-MW-31VR	9/29/2021 10:13	DO	0.29	mg/L
GN-AP-MW-31VR	9/29/2021 10:13	Depth to Water Detail	54.94	ft
GN-AP-MW-31VR	9/29/2021 10:13	Oxidation Reduction Potention	-263.86	mv
GN-AP-MW-31VR	9/29/2021 10:13	pH	8.5	SU
GN-AP-MW-31VR	9/29/2021 10:13	Temperature	20.7	C
GN-AP-MW-31VR	9/29/2021 10:13	Turbidity	1.01	NTU
GN-AP-MW-31VR	9/29/2021 10:18	Conductivity	528.58	uS/cm
GN-AP-MW-31VR	9/29/2021 10:18	DO	0.27	mg/L
GN-AP-MW-31VR	9/29/2021 10:18	Depth to Water Detail	55.7	ft
GN-AP-MW-31VR	9/29/2021 10:18	Oxidation Reduction Potention	-265.79	mv
GN-AP-MW-31VR	9/29/2021 10:18	pH	8.51	SU
GN-AP-MW-31VR	9/29/2021 10:18	Temperature	20.69	C
GN-AP-MW-31VR	9/29/2021 10:18	Turbidity	0.76	NTU
GN-AP-MW-31VR	9/29/2021 10:23	Conductivity	528.66	uS/cm
GN-AP-MW-31VR	9/29/2021 10:23	DO	0.26	mg/L
GN-AP-MW-31VR	9/29/2021 10:23	Depth to Water Detail	56.45	ft
GN-AP-MW-31VR	9/29/2021 10:23	Oxidation Reduction Potention	-265.82	mv
GN-AP-MW-31VR	9/29/2021 10:23	pH	8.53	SU
GN-AP-MW-31VR	9/29/2021 10:23	Temperature	20.65	C
GN-AP-MW-31VR	9/29/2021 10:23	Turbidity	0.68	NTU
GN-AP-MW-31VR	9/29/2021 10:28	Conductivity	530.81	uS/cm
GN-AP-MW-31VR	9/29/2021 10:28	DO	0.29	mg/L
GN-AP-MW-31VR	9/29/2021 10:28	Depth to Water Detail	56.95	ft
GN-AP-MW-31VR	9/29/2021 10:28	Oxidation Reduction Potention	-265.18	mv
GN-AP-MW-31VR	9/29/2021 10:28	pH	8.54	SU
GN-AP-MW-31VR	9/29/2021 10:28	Temperature	20.67	C
GN-AP-MW-31VR	9/29/2021 10:28	Turbidity	0.97	NTU
GN-AP-MW-31VR	9/29/2021 10:33	Conductivity	531.46	uS/cm
GN-AP-MW-31VR	9/29/2021 10:33	DO	0.36	mg/L
GN-AP-MW-31VR	9/29/2021 10:33	Depth to Water Detail	57.38	ft
GN-AP-MW-31VR	9/29/2021 10:33	Oxidation Reduction Potention	-261.58	mv
GN-AP-MW-31VR	9/29/2021 10:33	pH	8.46	SU
GN-AP-MW-31VR	9/29/2021 10:33	Temperature	22.85	C
GN-AP-MW-31VR	9/29/2021 10:33	Turbidity	1.11	NTU
GN-AP-MW-31VR	9/29/2021 10:38	Conductivity	528.07	uS/cm
GN-AP-MW-31VR	9/29/2021 10:38	DO	0.34	mg/L
GN-AP-MW-31VR	9/29/2021 10:38	Depth to Water Detail	57.52	ft
GN-AP-MW-31VR	9/29/2021 10:38	Oxidation Reduction Potention	-263.3	mv
GN-AP-MW-31VR	9/29/2021 10:38	pH	8.45	SU
GN-AP-MW-31VR	9/29/2021 10:38	Temperature	23.47	C

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-31VR	9/29/2021 10:38	Turbidity	0.68	NTU
GN-AP-MW-31VR	9/29/2021 10:43	Conductivity	523.45	uS/cm
GN-AP-MW-31VR	9/29/2021 10:43	DO	0.36	mg/L
GN-AP-MW-31VR	9/29/2021 10:43	Depth to Water Detail	57.66	ft
GN-AP-MW-31VR	9/29/2021 10:43	Oxidation Reduction Potention	-260.54	mv
GN-AP-MW-31VR	9/29/2021 10:43	pH	8.47	SU
GN-AP-MW-31VR	9/29/2021 10:43	Temperature	23.56	C
GN-AP-MW-31VR	9/29/2021 10:43	Turbidity	0.7	NTU

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-34V	9/29/2021 12:55	Conductivity	1114.87	uS/cm
GN-AP-MW-34V	9/29/2021 12:55	DO	0.16	mg/L
GN-AP-MW-34V	9/29/2021 12:55	Depth to Water Detail	50.18	ft
GN-AP-MW-34V	9/29/2021 12:55	Oxidation Reduction Potention	-281.54	mv
GN-AP-MW-34V	9/29/2021 12:55	pH	9.44	SU
GN-AP-MW-34V	9/29/2021 12:55	Temperature	20.94	C
GN-AP-MW-34V	9/29/2021 12:55	Turbidity	0.92	NTU
GN-AP-MW-34V	9/29/2021 13:00	Conductivity	1103.42	uS/cm
GN-AP-MW-34V	9/29/2021 13:00	DO	0.17	mg/L
GN-AP-MW-34V	9/29/2021 13:00	Depth to Water Detail	51.7	ft
GN-AP-MW-34V	9/29/2021 13:00	Oxidation Reduction Potention	-267.79	mv
GN-AP-MW-34V	9/29/2021 13:00	pH	9.08	SU
GN-AP-MW-34V	9/29/2021 13:00	Temperature	21.29	C
GN-AP-MW-34V	9/29/2021 13:00	Turbidity	0.91	NTU
GN-AP-MW-34V	9/29/2021 13:05	Conductivity	1058.29	uS/cm
GN-AP-MW-34V	9/29/2021 13:05	DO	0.18	mg/L
GN-AP-MW-34V	9/29/2021 13:05	Depth to Water Detail	53.25	ft
GN-AP-MW-34V	9/29/2021 13:05	Oxidation Reduction Potention	-283.42	mv
GN-AP-MW-34V	9/29/2021 13:05	pH	8.79	SU
GN-AP-MW-34V	9/29/2021 13:05	Temperature	21.35	C
GN-AP-MW-34V	9/29/2021 13:05	Turbidity	1.1	NTU
GN-AP-MW-34V	9/29/2021 13:10	Conductivity	1056.98	uS/cm
GN-AP-MW-34V	9/29/2021 13:10	DO	0.19	mg/L
GN-AP-MW-34V	9/29/2021 13:10	Depth to Water Detail	54.3	ft
GN-AP-MW-34V	9/29/2021 13:10	Oxidation Reduction Potention	-284.41	mv
GN-AP-MW-34V	9/29/2021 13:10	pH	8.65	SU
GN-AP-MW-34V	9/29/2021 13:10	Temperature	21.49	C
GN-AP-MW-34V	9/29/2021 13:10	Turbidity	1.2	NTU
GN-AP-MW-34V	9/29/2021 13:15	Conductivity	1064.07	uS/cm
GN-AP-MW-34V	9/29/2021 13:15	DO	0.23	mg/L
GN-AP-MW-34V	9/29/2021 13:15	Depth to Water Detail	54.74	ft
GN-AP-MW-34V	9/29/2021 13:15	Oxidation Reduction Potention	-281.25	mv
GN-AP-MW-34V	9/29/2021 13:15	pH	8.39	SU
GN-AP-MW-34V	9/29/2021 13:15	Temperature	23.87	C
GN-AP-MW-34V	9/29/2021 13:15	Turbidity	0.77	NTU
GN-AP-MW-34V	9/29/2021 13:20	Conductivity	1067.78	uS/cm
GN-AP-MW-34V	9/29/2021 13:20	DO	0.29	mg/L
GN-AP-MW-34V	9/29/2021 13:20	Depth to Water Detail	54.6	ft
GN-AP-MW-34V	9/29/2021 13:20	Oxidation Reduction Potention	-279.77	mv
GN-AP-MW-34V	9/29/2021 13:20	pH	8.34	SU
GN-AP-MW-34V	9/29/2021 13:20	Temperature	24.42	C
GN-AP-MW-34V	9/29/2021 13:20	Turbidity	0.93	NTU
GN-AP-MW-34V	9/29/2021 13:25	Conductivity	1059.53	uS/cm
GN-AP-MW-34V	9/29/2021 13:25	DO	0.33	mg/L
GN-AP-MW-34V	9/29/2021 13:25	Depth to Water Detail	54.52	ft
GN-AP-MW-34V	9/29/2021 13:25	Oxidation Reduction Potention	-284.77	mv

**Alabama Power Company
Plant Gaston Ash Pond**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GN-AP-MW-34V	9/29/2021 13:25	pH	8.44	SU
GN-AP-MW-34V	9/29/2021 13:25	Temperature	24.21	C
GN-AP-MW-34V	9/29/2021 13:25	Turbidity	0.87	NTU

Appendix E

Appendix E.
Relative Percent Difference Calculations

2021 1st Semi-Annual Monitoring Event				
Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		GN-AP-MW-39	GN-AP-MW-39 Dup	
Calcium	mg/L	35	34.8	0.6
Chloride	mg/L	2.91	2.95	1.4
Fluoride	mg/L	0.163	0.151	7.6
Sulfate	mg/L	14.6	14.6	0.0
TDS	mg/L	146	145	0.7
Arsenic	mg/L	0.000946	0.00086	9.5
Barium	mg/L	0.0226	0.0224	0.9
Molybdenum	mg/L	0.00167	0.00158	5.5

Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		GN-AP-MW-40	GN-AP-MW-40 Dup	
Calcium	mg/L	22.9	23	0.4
Chloride	mg/L	4.13	4.14	0.2
Sulfate	mg/L	7.23	6.69	7.8
TDS	mg/L	118	121	2.5
Barium	mg/L	0.0107	0.0108	0.9
Molybdenum	mg/L	0.000473	0.000459	3.0

Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		GN-AP-MW-42	GN-AP-MW-42 Dup	
Calcium	mg/L	11.7	11.6	0.9
Chloride	mg/L	4.18	4.26	1.9
Sulfate	mg/L	4.92	4.81	2.3
TDS	mg/L	77.3	77.3	0.0
Cadmium	mg/L	0.000855	0.000839	1.9
Cobalt	mg/L	0.00168	0.00154	8.7

Appendix E.
Relative Percent Difference Calculations

2021 1st Semi-Annual Monitoring Event				
Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		GN-AP-MW-21	GN-AP-MW-21 Dup	
Boron	mg/L	1.75	1.76	0.6
Calcium	mg/L	72.7	73.1	0.5
Chloride	mg/L	44.8	41.8	6.9
Sulfate	mg/L	145	147	1.4
TDS	mg/L	432	434	0.5
Arsenic	mg/L	0.00103	0.00101	2.0
Barium	mg/L	0.0375	0.038	1.3
Cobalt	mg/L	0.000374	0.000365	2.4
Molybdenum	mg/L	0.00838	0.0081	3.4

Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		GN-AP-MW-16	GN-AP-MW-16 Dup	
Boron	mg/L	1.43	1.44	0.7
Calcium	mg/L	57.6	58.4	1.4
Chloride	mg/L	19.8	19.9	0.5
Fluoride	mg/L	0.159	0.154	3.2
Sulfate	mg/L	172	182	5.6
TDS	mg/L	333	335	0.6
Arsenic	mg/L	0.00452	0.00493	8.7
Barium	mg/L	0.0421	0.0436	3.5
Cobalt	mg/L	0.000679	0.000702	3.3
Lithium	mg/L	0.111	0.111	0.0
Molybdenum	mg/L	0.514	0.509	1.0

Appendix F

Date Range

2016 2022

Facility Name

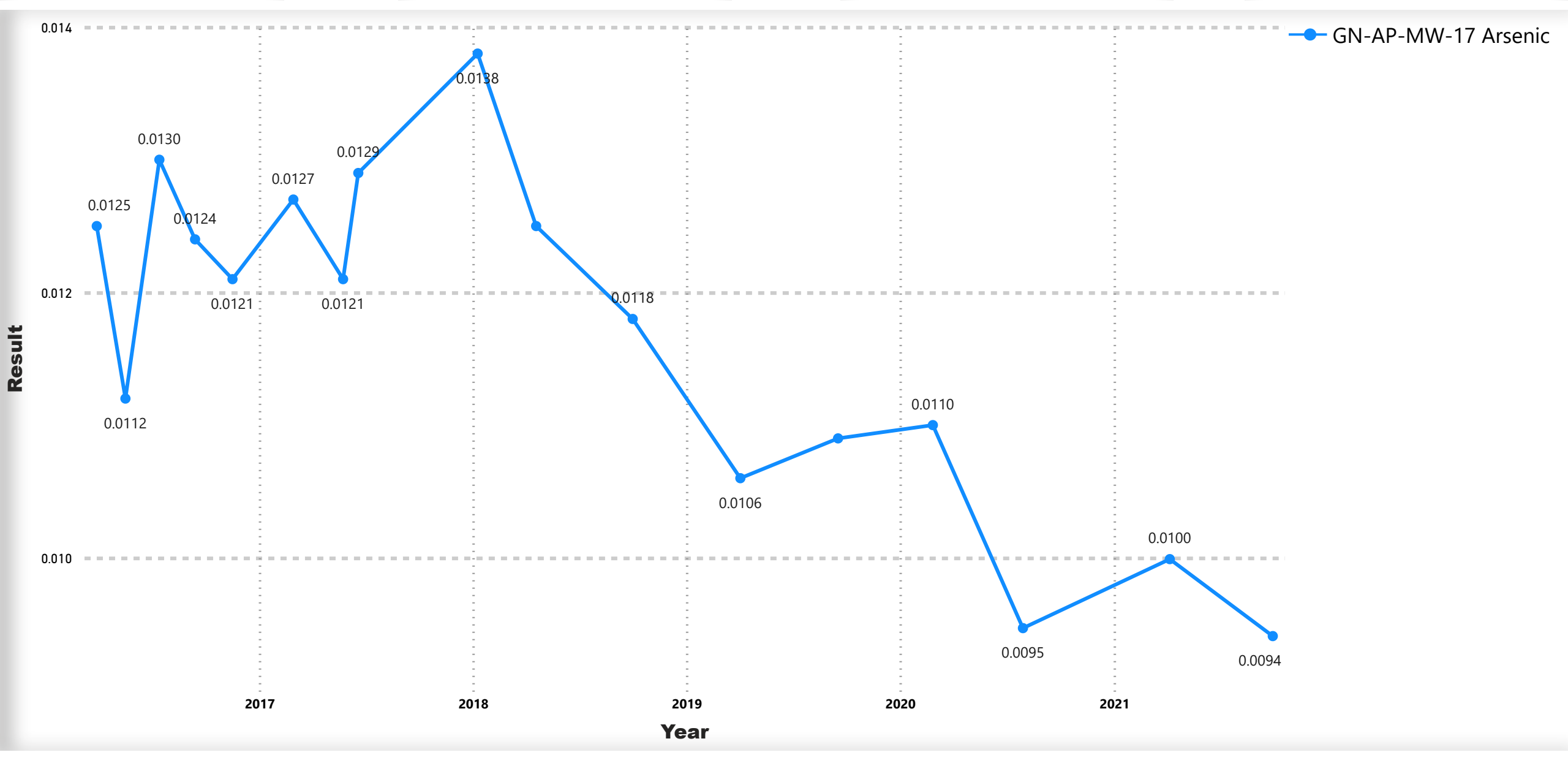
Multiple selections

Location

GN-AP-MW-17

Analyte

Arsenic



Date Range

2016 2022

Facility Name

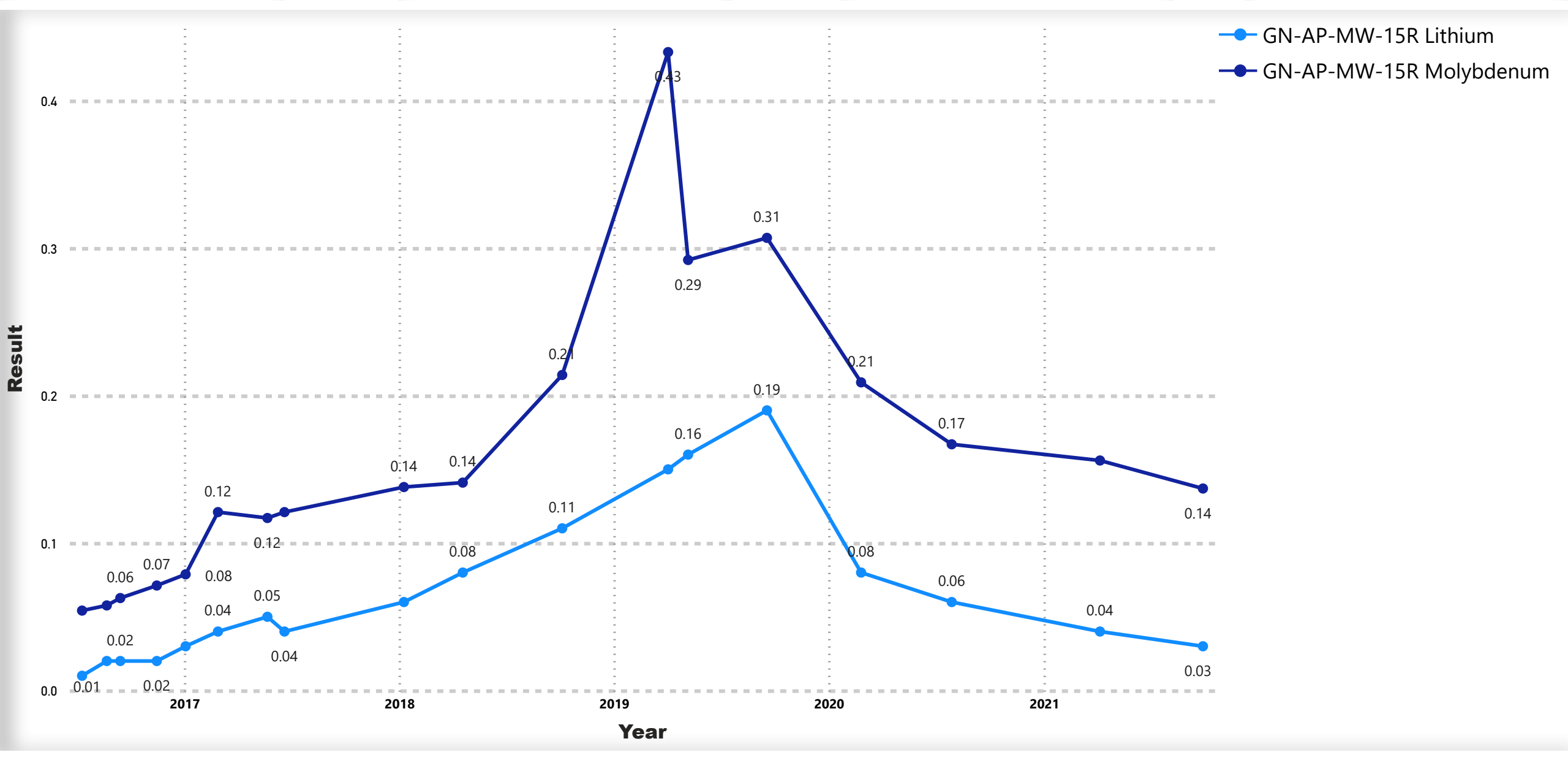
Multiple selections

Location

GN-AP-MW-15R

Analyte

Multiple selections



Date Range

2016 2022

Facility Name

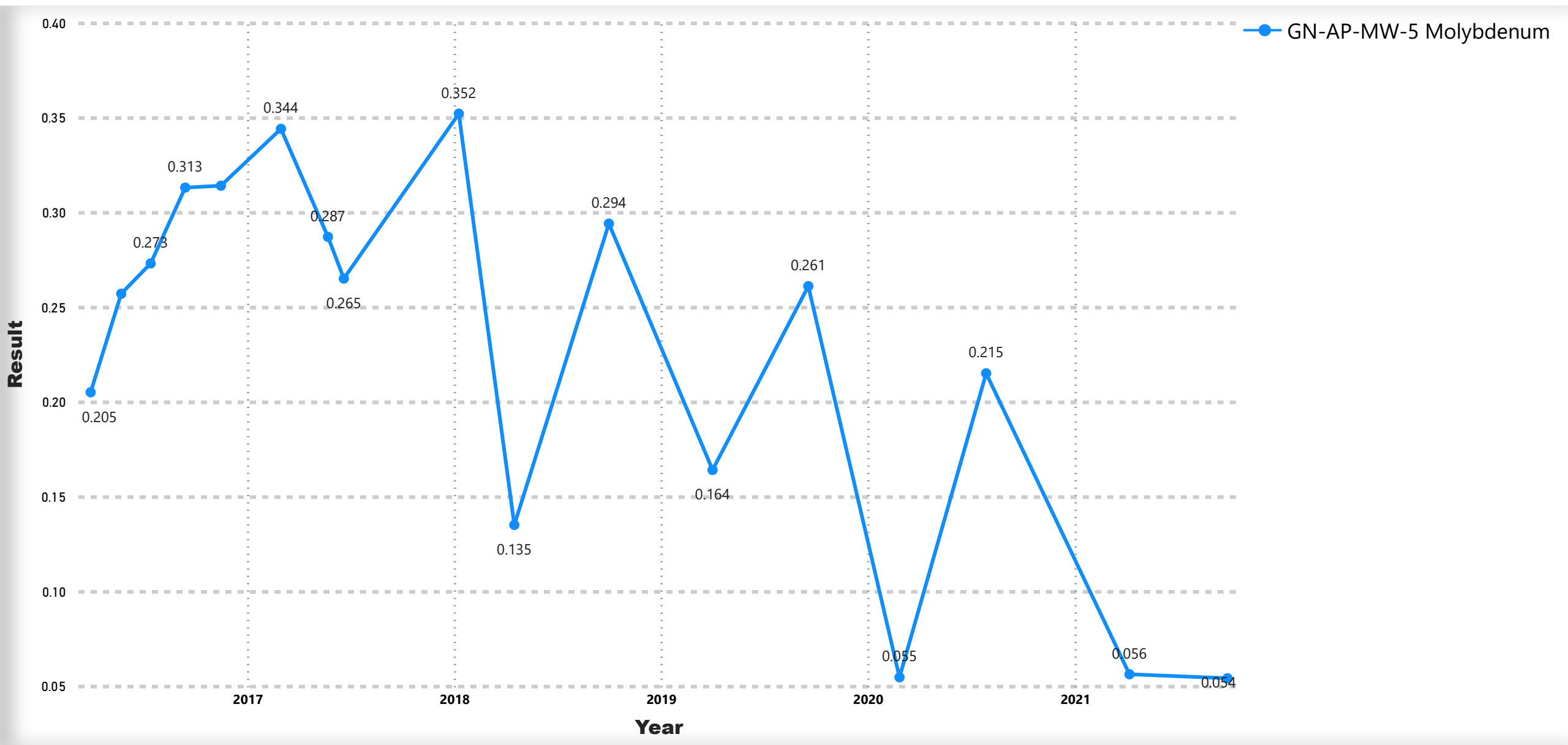
Multiple selections

Location

GN-AP-MW-5

Analyte

Molybdenum



Date Range

2016 2022

Facility Name

Multiple selections

Location

GN-AP-MW-33V

Analyte

Arsenic

