

**2023 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

**ALABAMA POWER COMPANY
PLANT MILLER
ASH POND**

January 31, 2024

Prepared for

Alabama Power Company
Birmingham, Alabama

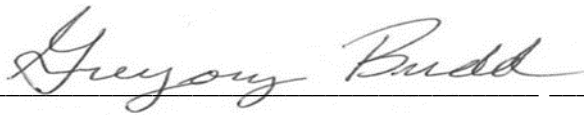
By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This 2023 Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Miller 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) and ADEM Admin. Code r. 335-13-15 and Part E of ADEM Administrative Order No. 18-098-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.



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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), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-098-GW, this 2023 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the first and second 2023 semi-annual groundwater monitoring activities at the Alabama Power Company (APC) Plant Miller Ash Pond (Site) and to satisfy the requirements of 40 CFR § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(e), and Part E of AO 18-098-GW. Semi-annual monitoring and associated reporting for Plant Miller Ash Pond is performed in accordance with the monitoring requirements 40 CFR § 257.90 through § 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

The CCR unit began the monitoring period in corrective action pursuant to 40 CFR § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9). 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 40 CFR § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order No.18-098-GW. The ACM was subsequently submitted to the Agency and posted to the Site CCR compliance web site.

Since the submittal of the ACM, extensive Site investigations have been performed to select effective corrective measures to address SSL above GWPS. A Groundwater Remedy Selection Report was prepared to meet the requirements of 40 CFR § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-098-GW and submitted to ADEM on November 30, 2021. Subsequently, within 90 days of remedy selection a Corrective Action Groundwater Monitoring Program document presenting the groundwater corrective action remedies to be implemented was submitted on February 28, 2022.

The Corrective Action Groundwater Monitoring Program was prepared to meet 40 CFR § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9) to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program has been developed to meet the requirements of 40 CFR § 257.98(a)(1) and ADEM Admin.

Code r. 335-13-15-.06(9)(a)(1) and will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

SSL of Appendix IV parameters arsenic, cobalt, lithium, and molybdenum were detected above GWPS during the first and second semi-annual monitoring events of 2023. The following summarizes activities for the annual monitoring period at the Site:

- Submitted the 2022 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2023.
- Completed the first semi-annual assessment groundwater monitoring event between April 18, 2023 and May 3, 2023, and submitted the Semi-Annual Groundwater Monitoring and Corrective Action Report summarizing the findings to ADEM on July 31, 2023.
- Completed the second semi-annual assessment groundwater monitoring event between September 25, 2023 and October 12, 2023.
- Research for the in-situ groundwater treatment of Site constituents of interest (COI) as part of a Pre-Design Investigation (PDI) for a Permeation Grouting and/or Geochemical Injection Pilot Program. Geochemical manipulation was originally not selected as corrective measure, however, because it may be a viable remedial technology it has been included as part of the PDI. This research included:
 - Completed all screening batch tests and optimization batch tests for laboratory treatability studies. The findings are summarized in the Plant Miller Laboratory Treatability Study Results (Appendix E).
 - Selected locations for pilot tests based on stratigraphy, COI in groundwater, bedrock characterization data, and accessibility.
 - Performed preliminary study of the hydraulics of reagent injections, including sustainable injection rates and distances of treatment solution delivery within the fractured bedrock.

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

- Conduct the PDI field work to remediate groundwater at two potential remediation areas (PRA) of the Site, to provide data for predictive groundwater modeling and to inform the design of pilot tests beginning in February 2024. The scope of work developed for the PDI includes the following:
 - Update the current Site hydrogeologic conceptual site model (HCSM).
 - Perform surface geophysical survey consisting of Electrical Resistivity Imaging (ERI) and Electrical Self-Potential (SP) methods for identifying the most advantageous locations for borings.
 - Advance two (or more) exploratory borings and collect detailed subsurface data to include lithologic descriptions; soil, groundwater, and rock core sample collection; packer testing; downhole geophysical logging; and lugeon hydraulic conductivity testing.
 - Monitor groundwater elevation response and fluctuations.
 - Determine and implement disposition of each borehole – for example, monitoring well, tracer injection/extraction well, or temporary securement of open borehole at ground surface – to allow for future decisions on permanent borehole disposition.
 - Evaluate the need for permeation grouting and/or geochemical injection test borings and implement as warranted.
- Continue with implementation, evaluation, and reporting of the PDI efforts as part of the Permeation Grouting/Geochemical Injection Pilot Program for the remediation of arsenic, cobalt, lithium, and molybdenum. Following complete evaluation of Site data, a report summarizing the findings and recommended future remedial techniques for the Site will be prepared.
- Conduct the first semi-annual groundwater monitoring event and submit the Semi-Annual Groundwater Monitoring and Corrective Action Report summarizing the findings to ADEM by July 31, 2024.

Pursuant to 40 CFR § 257.90(e)(6), an **Executive Summary Table** has been prepared to describe the status of groundwater monitoring and corrective action during the annual monitoring period for this report.

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

Assessment Monitoring Initiated: January 15, 2018

Monitoring Period: January 1 - December 31, 2023

Beginning Status: Corrective Action

Ending Status: Corrective Action

Statistical Analysis Results *

Appendix III SSIs

Parameter	Wells
Boron	MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-12, MR-AP-MW-15, MR-AP-MW-16.
Calcium	MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-15, MR-AP-MW-16.
Chloride	MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6.
Fluoride	MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-10, MR-AP-MW-12.
pH	MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-6, MR-AP-MW-15, MR-AP-MW-16.
Sulfate	MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-15, MR-AP-MW-16.
TDS	MR-AP-MW-2, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-15.

Appendix IV SSLs

Parameter	Wells
Arsenic	MR-AP-MW-3D.
Cobalt	MR-AP-MW-2, MR-AP-MW-13SR.
Lithium	MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-16.
Molybdenum	MR-AP-MW-10, MR-AP-MW-12.

* See the attached report for further details regarding statistical exceedances.

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

Date Initiated: January 13, 2019

Date Complete: June 12, 2019

Public Meeting Date: July 7, 2020

Groundwater Remedy

Remedy Selection Date: November 30, 2021

Initiated During Period: Yes

Ongoing During Period: Yes

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

1.0 Introduction 1

2.0 Monitoring Program Status..... 2

3.0 Site Location and Description 3

 3.1 Physical Setting 3

 3.2 Site Geology and Hydrogeology..... 3

 3.2.1 Geology and Hydrogeology 3

 3.2.2 Pottsville Formation – Rock Chemistry..... 5

 3.2.3 Uppermost Aquifer 6

 3.2.4 Flow Interpretation 7

 3.3 Groundwater Monitoring System 8

 3.3.1 Monitoring Wells..... 9

 3.3.1.1 Upgradient Wells 9

 3.3.1.2 Downgradient Wells 11

 3.3.1.3 Delineation Wells 12

 3.3.1.4 Piezometers..... 12

 3.3.1.5 Monitoring Well Replacement and Abandonment 13

 3.3.2 Monitoring Variances 13

 3.3.3 Groundwater Monitoring History 14

 3.3.3.1 Available Monitoring Data 15

 3.3.3.2 Historical Groundwater Flow 15

 3.4 Groundwater Sampling and Analysis 15

 3.4.1 Groundwater Sample Collection..... 15

 3.4.2 Sample Preservation and Handling..... 16

 3.4.3 Chain of Custody 17

 3.4.4 Laboratory Analysis..... 17

 3.4.5 Sampling Event Summary 17

4.0 Groundwater Elevations And Flow 19

 4.1 Groundwater Elevation Changes 20

 4.2 Groundwater Flow Velocity Calculations 22

Plant Miller Ash Pond
2023 Annual Groundwater Monitoring and Corrective Action Report

5.0	Evaluation of Groundwater Quality Data	23
5.1	Data Validation – Quality Assurance/Quality Control	23
5.2	Statistical Methodology and Tests	24
5.2.1	Appendix III Evaluation	24
5.2.2	Appendix IV Evaluation	25
5.3	Statistical Exceedances	26
5.3.1	Appendix III Constituents.....	26
5.3.2	Appendix IV Constituents	26
5.3.2.1	First Semi-Annual Groundwater Monitoring Event	27
5.3.2.2	Second Semi-Annual Monitoring Event	30
6.0	Groundwater Assessment and Corrective Action.....	34
6.1	Chronology of Delineation Activities	34
6.1.1	Delineation Wells	34
6.2	Nature and Quantity of Release	37
6.3	Delineation Results	38
6.4	Status of Delineation.....	50
6.5	Groundwater Remedy and Corrective Action.....	52
6.5.1	Groundwater Remedy Selection	52
6.5.2	Corrective Action – Groundwater Monitoring Program.....	53
6.5.3	Pre-Design Investigation.....	56
7.0	Summary and Conclusions	58
8.0	References	60

FIGURES

- Figure 1 Site Location Map
- Figure 2 Site Topographic Map
- Figure 3 Site Geologic Map
- Figure 4A Geologic Cross-Section A-A'
- Figure 4B Geologic Cross-Section B-B'
- Figure 4C Geologic Cross-Section C-C'
- Figure 4D Geologic Cross-Section D-D'
- Figure 4E Geologic Cross-Section E-E'
- Figure 5 Monitoring Well Location Map
- Figure 6A Potentiometric Surface Contour Map (April 18, 2023) – Mary Lee Aquifer
- Figure 6B Potentiometric Surface Contour Map (April 18, 2023) – Gillespy Lower Discrete Flow Zone
- Figure 6C Potentiometric Surface Contour Map (April 18, 2023) – Gillespy Lower Sandstone Unit(s)
- Figure 6D Potentiometric Surface Contour Map (April 18, 2023) – Gillespy Coal-Pratt Transition Zone
- Figure 6E Potentiometric Surface Contour Map (April 18, 2023) – Pratt Coal Group
- Figure 7A Potentiometric Surface Contour Map (September 25, 2023) – Mary Lee Aquifer
- Figure 7B Potentiometric Surface Contour Map (September 25, 2023) – Gillespy Lower Discrete Flow Zone
- Figure 7C Potentiometric Surface Contour Map (September 25, 2023) – Gillespy Lower Sandstone Unit(s)
- Figure 7D Potentiometric Surface Contour Map (September 25, 2023) – Gillespy-Pratt Transition Zone
- Figure 7E Potentiometric Surface Contour Map (September 25, 2023) – Pratt Coal Group
- Figure 8A Arsenic Isoconcentration Map (April to May 2023)
- Figure 8B Arsenic Isoconcentration Map (September to October 2023)
- Figure 9A Lithium Concentration Call-Out Map (April to May 2023)
- Figure 9B Mary Lee Aquifer – Lithium Isoconcentration Map (April to May 2023)
- Figure 9C Gillespy Lower Discrete Zone – Lithium Isoconcentration Map (April to May 2023)
- Figure 9D Gillespy Lower Sandstone Interval – Lithium Isoconcentration Map (April 2023)
- Figure 9E Gillespy Coal-Pratt Transition Zone – Lithium Isoconcentration Map (April to May 2023)

- Figure 9F Pratt Coal Group - Lithium Isoconcentration Map (April to May 2023)
- Figure 10A Lithium Concentration Call-Out Map (September to October 2023)
- Figure 10B Mary Lee Aquifer – Lithium Isoconcentration Map (September to October 2023)
- Figure 10C Gillespy Lower Discrete Flow Zone – Lithium Isoconcentration Map (September to October 2023)
- Figure 10D Gillespy Lower Sandstone Unit(s) – Lithium Isoconcentration Map (September to October 2023)
- Figure 10E Gillespy-Pratt Transition Zone – Lithium Isoconcentration Map (September to October 2023)
- Figure 10F Pratt Coal Group - Lithium Isoconcentration Map (September to October 2023)
- Figure 11A Cobalt Isoconcentration Map (April to May 2023)
- Figure 11B Cobalt Isoconcentration Map (September to October 2023)
- Figure 12A Molybdenum Isoconcentration Map (April to May 2023)
- Figure 12B Molybdenum Isoconcentration Map (September to October 2023)

TABLES

- Table 1a Compliance Monitoring Well Network Details
- Table 1b Delineation Well Network Details
- Table 1c Piezometer Well Network Details
- Table 1d Abandoned Well Network Details
- Table 2 Parameters and Reporting Limits
- Table 3 Groundwater Elevations Summary
- Table 4a Relative Percent Difference (RPD) Calculations
- Table 4b Field QC: Blank Detections
- Table 5 Summary of Background Levels and Groundwater Protection Standards
- Table 6 First Semi-Annual Monitoring Event Analytical Results Summary
- Table 7 Second Semi-Annual Monitoring Event Analytical Results Summary
- Table 8 Pottsville Background – Lithium and Boron Concentrations

APPENDICES

- Appendix A Analytical Data Summary
- Appendix B Historical Groundwater Elevations Summary
- Appendix C Laboratory and Field Records
- Appendix D Statistical Analyses
- Appendix E Plant Miller Laboratory Treatability Study Results

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
PDI	pre-design investigation
PE	Professional Engineer
PG	Professional Geologist
PL	prediction limits
PQL	practical quantitation limit
PRA	potential remediation area
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 increases
SSL	statistically significant levels
TAL	Test America, Inc.
TOC	top of casing
TDS	total dissolved solids
USGS	Unites States Geological Survey
UTLs	Upper Tolerance Limits
XRD	X-ray diffraction
XRF	X-ray fluorecence

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-098-GW, this 2023 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2023 semi-annual groundwater monitoring activities at the Plant Miller Ash Pond (Site or Ash Pond). Semi-annual monitoring and associated reporting for the Ash Pond is performed in accordance with the monitoring requirements of 40 CFR §§ 257.90 through 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

Semi-Annual Groundwater Monitoring and Corrective Action Reports include an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018) and corrective action activities completed since the submittal of the Corrective Action Groundwater Monitoring Program (February 28, 2022).

2.0 MONITORING PROGRAM STATUS

The Site is currently in corrective action and implementing groundwater remedies. In accordance with 40 CFR § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. Statistically significant increases (SSI) of Appendix III and statistically significant levels (SSL) of Appendix IV parameters were identified at the Plant Miller Ash Pond during sampling events conducted in 2018. Pursuant to 40 CFR § 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 40 CFR § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and AO No. 18-098-GW. The ACM was completed June 12, 2019, and a public meeting was held to discuss the ACM on July 7, 2020.

Following the ACM, the Groundwater Remedy Selection Report was prepared and submitted on November 30, 2021, to meet the requirements of 40 CFR § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No. 18-098-GW. Subsequently, within 90 days of remedy selection, the Corrective Action Groundwater Monitoring Program was submitted on February 28, 2022.

In accordance with 40 CFR § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9), APC will continue semi-annual groundwater monitoring, including all monitoring wells in the certified groundwater monitoring network and any well installed to characterize the horizontal and vertical extent of SSL. APC will continue with implementation of the groundwater remedies described in the Groundwater Remedy Selection Report and Corrective Action Groundwater Monitoring Program document.

3.0 SITE LOCATION AND DESCRIPTION

The APC James H. Miller, Jr., Electric Generating Plant (Plant Miller) is located at 4250 Porter Road, Quinton, AL 35130-9471. Plant Miller is approximately 15 miles northwest of Birmingham in western Jefferson County, Alabama. The plant occupies Sections 21, 22, 27, 28, 29, 32, 33, and 34, Township 16 South, Range 5 West and Section 4, Township 17 South, Range 5 West. Section/Township/Range data are based on visual inspection of USGS topographic quadrangle maps and GIS plant boundary files provided by Southern Company (USGS, 1982; USGS, 1983). The Ash Pond is located south of the main plant. **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 Miller is located in the Black Warrior River basin, an area typified by moderate relief, with river and stream valleys having dendritic drainage patterns. Elevations at the Site range from approximately 260 feet above mean sea level (MSL) near the Locust Fork to over 550 feet MSL along ridges north and south of the Ash Pond. **Figure 2, Site Topographic Map**, provides the topography of the Site.

3.2 SITE GEOLOGY AND HYDROGEOLOGY

3.2.1 Geology and Hydrogeology

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

The Plant Miller Ash Pond is directly underlain by rocks belonging to the Mary Lee, Gillespy, and Pratt Coal Groups (Ward II et al., 1989) of the Upper Pottsville Formation. In general, each coal group consists

of mudstone, shale, fine-grained sandstone, and interbedded coal in fining-upward sequences. Each coal group is bounded by a maximum flooding surface and marine shale unit. Upper Pottsville strata at Plant Miller are on the southeast limb of the Sequatchie Anticline and dip to the southeast between 3° and 5°. **Figures 4A, Geologic Cross-Section A-A'**, through **4E, Geologic Cross-Section E-E'**, illustrate the Pottsville Formation strata underlying the Site.

Bedrock discontinuities measured during geologic mapping and downhole geophysical surveys were statistically analyzed using lower-hemisphere equal-area stereonet to assess dominant orientations for joint sets and bedding. The average bedding from only geologic mapping measurements is 04°, 122° (dip, dip direction) or N32°E dipping 4°SE (quadrant strike/dip).

Up to four different joint sets formed due to tectonic stresses on the bedrock. These joint sets can be classified as dip, strike, or oblique joints. Dip joints form parallel to bedding dip direction and are typically perpendicular to fold axes, representing extension that is perpendicular to the maximum principal stress direction or direction of compression. These joints are commonly near vertical. Strike joints develop parallel to the strike of bedding and fold axes, typically forming from tension along fold hinges. The dip direction and angle of these joints is nearly orthogonal to the dip direction and angle of bedding. Oblique joints commonly develop diagonal ($\pm 30^\circ$) to the principal stress direction and represent conjugate sets formed from shear. An additional joint set is present at the Site that is subparallel to bedding, which is interpreted to represent exfoliation or spheroidal weathering of the rock mass. The most prominent joint sets can be grouped into the following orientations:

- Joint Set 1 (dip joint): 88°, 195°
- Joint Set 2 (strike joint): 90°, 318°
- Joint Set 3: rotated 81°, 221° to 82°, 248°
- Joint Set 4 (subparallel bedding): 06°, 167

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

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

3.2.2 Pottsville Formation – Rock Chemistry

Published data indicate that elevated arsenic concentrations occur in the Southern Appalachian coal strata where Site monitoring wells are screened. Numerous publications document elevated trace metals in Pottsville and Pottsville coal strata (Kolker et al., 1999, Diehl et al., 2004, Goldhaber et al., 2002). For instance, according to the USGS National Coal Data System (NRCDS), the average concentration of arsenic (72 ppm) in the Pottsville coal strata is three times that of the average of other coal basins (Bragg et al., 1997). Of the US coal analyses for arsenic that are at least three standard deviations above the mean, approximately 90% are from the coal fields of Alabama (Diehl et al., 2004). The United States Geological Survey (USGS) maintains an inventory of coal quality that includes trace metal concentration data. It shows an arsenic concentration range of 1.08 mg/kg to 611.0 mg/kg for Walker County coals, with a mean of 47 mg/kg. For Jefferson County, the USGS Coal Quality Database showed an arsenic concentration range of 1.22 mg/kg to 122 mg/kg with a mean of 36 mg/kg in Pratt, Gillespy-Curry, and Mary Lee Coal Groups in the vicinity of Plant Miller.

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

- Boron – 6.3 to 83.6 ppm (average of 35 ppm).
- Cobalt – 1.6 to 19.8 ppm (average of 8 ppm).
- Molybdenum – 0.8 to 22.2 ppm (average of 5 ppm).
- Lithium – 1.4 to 128 ppm (average of 28 ppm).

Bulk geochemical analyses of Pottsville stratigraphy from Plant Miller were conducted on recovered core. The data reflect arsenic concentrations between 4.4 mg/kg and 64.6 mg/kg in Pottsville core analyzed. Similarly, 21 Pottsville samples collected from the Site provided the following ranges of other trace metals:

- Boron – 10.3 to 92.8 ppm (average of 37 ppm).
- Cobalt – 5.4 to 21.2 ppm (average of 12 ppm).
- Molybdenum – non-detect to 1.9 ppm (average of 0.6 ppm).

Trace metal enrichment and pyrite origins have been linked to post-depositional (post-coalification) deformation and trace metal laden hydrothermal fluids upwelling during Alleghenian tectonism. Diehl et al., (2004) and Goldhaber et al., (2002) describe “high-pyrite” coals as a source of elevated arsenic and other trace metals. In these publications, pyrite occurrence is observed within coal banding, woody cellular fill structures, mineral overgrowths, and structural fills such as veins and microfaults.

Furthermore, the process of strip mining and backfilling these materials can increase the availability of trace metals to groundwater. These mining processes and practices lead to the physical weakening and enhanced weathering of rock, which, along with changed hydrodynamics, can lead to elevated and highly variable concentrations across a historic mine site. This may be evident adjacent to the southeast of the Plant Miller Ash Pond, where, as discussed in **Section 6.3**, lithium concentrations increase significantly in areas of previous strip mining.

3.2.3 Uppermost Aquifer

The Pottsville aquifer is the uppermost aquifer beneath the Site. Groundwater occurs in the Mary Lee, Gillespy, and Pratt Coal Groups of the Upper Pottsville Formation beneath the Site. The Mary Lee Coal Group is the uppermost aquifer north of the Ash Pond, the Gillespy Coal Group and Gillespy-Pratt transition zone are the uppermost aquifers beneath the north-central and western portions of the Ash Pond, and the Pratt Coal Group is the uppermost aquifer beneath the far southeastern portion of the pond.

The primary sources of groundwater in the uppermost aquifer are: (1) coal seams, (2) rock fractures or zones of fracture enhanced permeability, and to a lesser extent (3) bedding plains. Wells were generally screened across coal seams or groundwater yielding fractures. Depth to groundwater-producing zones were highly variable at the Site and generally ranged from 30 to 300 feet below ground surface (BGS).

Based on published data, groundwater quality produced from the Pottsville Formation can be characterized by high concentrations of sulfate, iron, and other trace metals (Jennings and Cook, 2010). Trace metals in Pottsville Formation groundwater are associated with sulfide minerals contained in organic-rich strata (e.g., mudstones and coal seams) and siliceous/carbonate healed fractures and joints. Trace element enrichment is likely the result of migrating hydrothermal fluids generated during the late Paleozoic Allegheny orogeny (Diehl et al., 2005). Arsenic, antimony, molybdenum, selenium, copper, thallium, and mercury are elevated in Warrior Basin coal strata (Goldhaber et al., 2002).

Geochemically, upgradient or natural groundwater types are typically classified as (1) calcium bicarbonate in more shallow systems, (2) sodium chloride in deeper systems, and (3) sodium bicarbonate in intermediate to deep systems where ion exchange is occurring. Together, these would generally fall in the bottom half of Piper or Trilinear diagrams. Exceptions to this can occur in areas of mining – especially strip mining – where groundwater types can often be calcium chloride (upper corner of diamond).

3.2.4 Flow Interpretation

Groundwater flow is accomplished primarily by means of fracture flow, where groundwater flows along more conductive secondary discontinuities in the rock mass such as weaknesses along bedding planes, joints, or cleat fabric in coal seams. Fractures at the Site are typically high-angle/near vertical (80° to 90°). Fracture flow in complex geologic media such as the heterogenous Pottsville Formation can be complex. Groundwater flow in rock aquifer systems is influenced by the structural strike and dip of bedding planes to varying degrees depending on dip magnitude, relative resistance to flow in bed-parallel and cross-bed directions, and orientations to hydraulic gradient. In some cases, groundwater does not flow exactly perpendicular to the head gradients, in a process called flow distortion as illustrated by potentiometric surface contours. In the Plant Miller area, the strike of rock is typically to the northeast and structural dip is most commonly towards the south and southeast with an average dip magnitude of 4 degrees. Some degree of preferential groundwater flow may occur away from the Site in these directions.

Groundwater in the Pottsville aquifer is most commonly regarded as confined due to large permeability contrasts within the aquifer (Stricklin, 1989). The Pottsville at the Site is probably best described as a series of discrete, confined to semi-confined, groundwater yielding zones where groundwater elevations can vary significantly laterally and vertically and are governed by the heterogeneity of the lithology and degree of fracture network interconnectivity.

Potentiometric data suggest the following groundwater flow patterns and characteristics:

Mary Lee Aquifer: (1) North to south to the north of the Plant Miller Ash Pond and (2) stagnant or west to east towards the Ash Pond; groundwater could be flowing towards underground Mary Lee Mine. Likely confined from Ash Pond by 150 to 300 feet of low permeability strata as evidenced by large, vertical hydraulic separation between water elevation in the Ash Pond (~423 feet MSL) and groundwater elevations in the Mary Lee coal (~280 feet MSL).

Gillespy Lower Discrete Interval: South-southeast flow direction; likely discontinuous zone of groundwater flow, especially west of topographic low/valley adjacent to the west of the north-central ash pond area.

Gillespy Lower Sandstone Interval: West to east flow direction; only present in the subsurface from an area beginning just to the north of MR-AP-MW-6V. Potentially confined from Ash Pond as evidenced by groundwater flow direction and large, vertical hydraulic separation between water elevation in the Ash Pond (~423 feet MSL) and groundwater elevations in the flow system (~259 feet NAVD88).

Gillespy-Pratt Transition Zone: Radial flow pattern emanating from east-northeastern portion of ash pond; strongest gradients appear to the southeast and then east towards adjacent Pratt Coal Mine; wells to northeast (saddle dike area) appear lateral (side-gradient) to groundwater flow pattern. Composed of two to three confined to semi-confined discrete flow systems.

Pratt Coal Group: Radial flow pattern emanating from southeastern portion of the ash pond; strongest gradients appear to the southeast and then east towards adjacent Pratt Coal Mine; vertical groundwater separation of three to eight feet generally exists between Pratt and American coal seams (discrete flow zones within Pratt Coal Group). Comprised of two to three confined to semi-confined discrete flow systems.

3.3 GROUNDWATER MONITORING SYSTEM

Pursuant to 40 CFR § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Miller has installed a groundwater monitoring network to evaluate groundwater quality 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.. Wells were sited to serve as upgradient 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

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

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

3.3.1.1 Upgradient Wells

To evaluate upgradient well locations at the Site, groundwater elevations and CCR indicator parameters were reviewed. As described in **Sections 3.2.3 and 3.2.4**, there are multiple groundwater flow regimes within the Pottsville Formation at the Site. Groundwater flow systems, as evaluated by potentiometric data, appear to have radial flow or flow away components away from the Site, and are not suitable for upgradient designations (except for Mary Lee and Lower Gillespy Discrete Zone).

Additionally, the Gillespy-Pratt Transition Zone and Pratt Coal Group, where the majority of downgradient wells are screened, do not exist in the vicinity of the Site (and the majority of the Warrior Basin) due to mining or lithology being absent (strata project above ground surface). Therefore, there is little or perhaps even no opportunity for installing upgradient locations in these areas.

Background groundwater quality data for the monitored formations is provided by wells GS-AP-MW-8, GS-AP-MW-13, and GS-AP-MW-17V installed at the nearby Plant Gorgas Ash Pond. These locations are suitable as upgradient locations due to (1) placement in similar geology and (2) screened intervals at these wells monitor recharging groundwater that has not been impacted by either Site. Well GS-AP-MW-13 is no longer in service and sampled, but the historical background database will continue to be used in background calculations. This well is installed at an elevation above the level of the Gorgas Ash Pond and exhibits a groundwater elevation approximately 30 feet higher than the Plant Gorgas Ash Pond; therefore, this well represents younger groundwater infiltrating the Pottsville and captures the natural geochemical variability within the formation.

Appendix III (detection monitoring parameters) constituent concentrations along with select other Appendix IV CCR indicator parameters were also evaluated as further basis for designating locations GS-AP-MW-8, GS-AP-MW-13, and GS-AP-MW-17V as upgradient. In general, concentrations of CCR indicator parameters reported for these well locations are well below published Groundwater Protection Standards (GWPS), downgradient wells, and pore-water (source) concentrations. The absence of elevated concentrations of CCR indicator parameters indicates younger, recharging groundwater and groundwater that has not been impacted by groundwater flowing away from the Ash Pond. These data, along with groundwater elevation data, support an upgradient designation for locations GS-AP-MW-8, GS-AP-MW-13, and GS-AP-MW-17V. Upgradient location GS-AP-MW-13 was abandoned in 2019. Historical data from this location will still be used for statistical comparison of groundwater quality data. Location GS-AP-MW-17V was originally intended for vertical delineation at the Gorgas Ash Pond but was screened at a higher elevation due to encountering the underlying Maxine Mine at depth and identifying more shallow groundwater flow. These wells provide groundwater quality information from the top of the Pratt Coal Group, although none are installed in coal measures and are likely biased towards lower concentrations of trace metals.

Potential Future Upgradient Well Locations

Six additional upgradient locations closer to the Site have been installed: MR-AP-MW-21 and MR-AP-MW-23 in 2019 and MR-AP-MW-22S, MR-AP-MW-22I, MR-AP-MW-22D, and MR-AP-MW-23A in 2020. These six additional upgradient monitoring wells are located approximately 2 miles WNW of Plant Miller. These locations were chosen based on their similar positions on the Sequatchie Anticline and APC land ownership. These locations sit on the opposite limb of the Sequatchie Anticline, but at similar elevation, structural, and stratigraphic setting.

The additional upgradient wells were installed during Phase I and Phase II delineation activities for further evaluation and comparison with downgradient compliance and delineation wells at the Site. Upgradient location MR-AP-MW-23A was paired with monitor well MR-AP-MW-23 to determine if bentonite seal or grout contamination occurred during the installation of MR-AP-MW-23.

Stratigraphically, these upgradient well locations are screened in middle to lower-middle sections of the Mary Lee Coal Group. Based on the data reviewed, the Mary Lee Coal bed may have existed 60 to 120 feet above ground surface. These wells installed between 47 and 200 feet BGS, should correlate

approximately to the Blue Creek through Jagger Coal horizons. Coal seams are noted at depths of approximately 66 feet BGS, 82 feet BGS, 104 feet BGS, 134 feet BGS, and 195 feet BGS. The most prominent coal seam occurs between 134 feet BGS and 137.5 feet BGS. These wells are deeper and screened across coal seams, and likely, provide more representative concentrations of trace metals, especially in comparison to deep or coal measure screened downgradient wells.

The additional upgradient monitoring wells were sampled for the first time during the April-May 2021 semi-annual monitoring event as part of the semi-annual assessment groundwater monitoring program. It is important to note that these six additional well locations were not included as upgradient locations in the *September 2020 Groundwater Monitoring Plan*. A sufficient data set and full evaluation of that data has been conducted and these wells have been included into the groundwater monitoring network.

Table 1A, Compliance Monitoring Well Network Details, summarizes compliance well installation data including monitoring well construction details and the lithology (flow system) adjacent to the screened interval. Potential future upgradient well locations are listed as such in **Table 1A** and it should be noted that these locations are not being used in statistical analyses.

3.3.1.2 Downgradient Wells

Currently, the groundwater monitoring network comprises 20 downgradient monitoring wells installed along the boundary of the Ash Pond. Ash pond closure activities necessitated the abandonment of nine downgradient compliance locations. Seven of the nine downgradient compliance locations were replaced. The seven replacement wells (MR-AP-MW-7SR, MR-AP-MW-7DR, MR-AP-MW-9SR, MR-AP-MW-9DR, MR-AP-MW-13SR, MR-AP-MW-13DR, and MR-AP-MW-14R) were pre-surveyed in the field, ground elevations were compared between original and replacement well locations, and a target depth for boring was pre-determined based on structural dip and the difference in ground elevation. The new groundwater wells were installed in water bearing zones as close to the wells being replaced as conditions warranted. The new wells were installed as close as feasible to the waste boundary of the CCR unit to (1) provide an accurate representation of the quality of groundwater passing the waste boundary and (2) not interfere with the closure construction activities or final cover system of the Plant Miller Ash Pond.

Borehole geophysics, hydrophysical logging, and occasional packer testing were used to determine well screen intervals. These logging techniques identify groundwater flow zones in open boreholes and are

optimally suited for use in low-yielding, fractured rock media. Heat-pulse flowmeter logging or packer testing were often used to assess or further evaluate flow zones indicated by hydrophysical logging tools. If multiple flow zones were identified, then paired wells were often installed to screen both zones.

Preferential groundwater flow away from the Site, if existing, occurs within zones of enhanced permeability such as cleated coals or zones of intersecting rock discontinuities spatially located lateral to or beneath the base of the Ash Pond. Strata of the Gillespy-Pratt Coal Groups are the uppermost aquifer lateral to or beneath the base of the Ash Pond as indicated by borehole logging and geophysics in central and southern portions of the Site. To the north, Pratt Coal Group strata exist above ground surface or are absent. In these areas, downgradient monitoring well locations were installed across the first groundwater yielding fractures identified by borehole geophysics or within the deeper Mary Lee coal seam.

Monitoring well locations are presented on **Figure 5. Table 1A**, which summarizes compliance well installation data including monitoring well construction details and the lithology (flow system) adjacent to the screened interval.

3.3.1.3 Delineation Wells

Pursuant to 40 CFR § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g), and AO No. 18-098-GW, additional monitoring wells were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring. In 2020, two horizontal delineation wells (MR-AP-MW-27HR and MR-AP-MW-36HR) were installed to replace previously installed delineation wells (MR-AP-MW-27H and MR-AP-MW-36H) that did not yield sufficient groundwater for development or sampling, and one previously installed delineation well (MR-AP-MW-31H) was redeveloped and re-designated from a piezometer to a horizontal delineation well. All three wells were sampled for the first time during the second semi-annual sampling event of 2020.

A summary of well installation dates, location, elevation, screen interval, and purpose are provided in **Table 1b, Delineation Well Network Details**, and **Figure 5**.

3.3.1.4 Piezometers

There are currently three water-level only piezometers at the Site (MR-AP-MW-2V, MR-AP-MW-3V, and MR-AP-MW-19H). These locations were originally intended as delineation locations but did not yield sufficient groundwater for development or sampling and were re-designated as piezometers.

Changes to the piezometer network occurred in 2020 as locations MR-AP-MW-27H, MR-AP-MW-29H, MR-AP-MW-31H, and MR-AP-MW-36H were reassessed in a low-yield well study conducted in July 2020. Wells MR-AP-MW-27H and MR-AP-MW-36H were abandoned and replaced, well MR-AP-MW-29H was abandoned, and well MR-AP-MW-31H was successfully redeveloped.

Figure 5 and **Table 1c, Piezometer Well Network Details**, summarize monitoring well construction details and design purpose for the Plant Miller Ash Pond.

3.3.1.5 Monitoring Well Replacement and Abandonment

Ash pond closure activities necessitated the abandonment and relocation of nine downgradient compliance locations. A plan for the abandonment and relocation of the nine monitoring wells (MR-AP-MW-7S, MR-AP-MW-7D, MR-AP-MW-8S, MR-AP-MW-8D, MR-AP-MW-9S, MR-AP-MW-9D, MR-AP-MW-13S, MR-AP-MW-13D, and MR-AP-MW-14) was submitted to ADEM in February 2020 and approved in May 2020. A revised work plan added to the original scope of work to include the abandonment and reinstallation of three previously installed horizontal delineation wells re-designated as piezometers (MR-AP-MW-27H, MR-AP-MW-29H, and MR-AP-MW-36H).

The abandonment of the nine downgradient monitor wells and three horizontal delineation wells re-designated as piezometers occurred between June and August 2020. One replacement horizontal delineation well (MR-AP-MW-29HR) boring was abandoned due to the presence of predominately mine spoils. The monitoring wells and boring were abandoned in accordance with Alabama well construction standards described in Administrative Code Div. 335-13 and the Alabama Environmental Investigation and Remediation Guidance (AEIRG; Revised 2017).

A summary of previous well abandonments is provided in **Table 1d, Abandoned Well Network Details**.

3.3.2 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.

3.3.3 Groundwater Monitoring History

Background groundwater samples were collected from July 2016 to June 2017. Semi-annual groundwater monitoring was initiated at the Ash Pond in September 2017.

In accordance with 40 CFR § 257.94(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 sampling was performed over the period of July 2016 to June 2017. Groundwater sampling for the first detection monitoring event after the background period was performed in September 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 February 2018, within 90 days of initiating the assessment monitoring program.

Statistical evaluations of 2018 assessment monitoring data identified SSL 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 No. 18-098-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 January 2019 and September 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 second semi-annual sampling event in 2020. However, occasionally, additional data collection has occurred independent of routine compliance sampling events to support continuing assessment activities at the Site.

3.3.3.1 Available Monitoring Data

Laboratory analytical data is available for the groundwater monitoring history outlined in **Section 3.3.3**. Tabulated results for Appendix III and Appendix IV constituents by monitoring well are included in **Appendix A, Analytical Data Summary**.

3.3.3.2 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 3.2.4**. 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 B, Historical Groundwater Elevations Summary**.

3.4 GROUNDWATER SAMPLING AND ANALYSIS

Site compliance wells are typically sampled semi-annually between: (1) late winter and mid-spring and (2) early to late fall. The spacing between sampling events is sufficient to yield independent groundwater samples and a general representation of the different climatic or meteorological seasons that create 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.

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

3.4.1 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 40 CFR § 257.93(a) and ADEM Admin. Code r. 335-13-15-.06(4)(a). Non-flowing (artesian) monitoring wells at Plant Miller 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 nephelometric turbidity units (NTU).
- Temperature and oxidation reduction potential (ORP) – record only, no stabilization criteria.

During purging and sampling, an in situ Aqua TROLL instrument was used to monitor and record field parameters. All downhole groundwater monitoring equipment and instrumentation was calibrated prior to sample collection per the manufacturer's specifications outlined in the Alabama Power Environmental Affairs (EA) Water and Field Group (WFG) Technical Operating Procedure, dated December 14, 2021.

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 are included in **Appendix C, Laboratory and Field Records**.

3.4.2 Sample Preservation and Handling

Groundwater samples were collected in 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.

3.4.3 Chain of Custody

A 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 C**.

3.4.4 Laboratory Analysis

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

3.4.5 Sampling Event Summary

As required by 40 CFR § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(e), the following describes monitoring-related activities performed during the monitoring period.

The first semi-annual monitoring event occurred between April 18 and May 3, 2023. The second semi-annual monitoring event occurred between September 25 and October 12, 2023. Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during monitoring period sampling events. Additional general chemistry and monitored natural attenuation monitoring parameters are also sampled and analyzed. These analytes have been incorporated for continued evaluations of geochemical facies and their evolution over time. These analytes will also support geochemical modeling and evaluations associated with monitored natural attenuation. These parameters include:

- Calcium (filtered)
- Iron (total and dissolved)
- Silicon (total and dissolved)
- Silica (total and dissolved)
- Sodium (total and dissolved)
- Sulfide

- Potassium
- Aluminum (total and dissolved)
- Manganese
- Magnesium (total and filtered)
- Nitrate-Nitrite
- Total Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity
- Total Organic Carbon.

All groundwater sampling activities were conducted by APC Field and Water Services. Pace Analytical Services (Greensburg) performed the laboratory analyses of Radium-226 and Radium-228 (reported combined) as well as the MNA parameter sulfide (Pace – New Orleans). APCEL performed the remaining Appendix III and Appendix IV analyses. Analytical data from the groundwater monitoring events is included as **Appendix C** in accordance with the requirements of 40 CFR § 257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(e)3.

4.0 GROUNDWATER ELEVATIONS AND FLOW

During the first semi-annual monitoring event, groundwater elevations ranged from 155.64 to 429.22 feet North American Vertical Datum of 1988 (NAVD88) (with exception of artesian water-level conditions observed at locations MR-AP-MW-5 and MR-AP-PZ-5). Readings and elevations in piezometers MR-AP-MW-2V and MR-AP-MW-19H are not representative of groundwater elevations in Site flow systems. During this monitoring event piezometer MR-AP-MW-2V was not gauged.

The following maps depict groundwater elevations and inferred groundwater flow direction during the first 2023 semi-annual monitoring event: **Figure 6A, Potentiometric Surface Contour Map (April 18, 2023) – Mary Lee Aquifer, Figure 6B, Potentiometric Surface Contour Map (April 18, 2023) – Gillespy Lower Discrete Flow Zone, Figure 6C, Potentiometric Surface Contour Map (April 18, 2023) – Gillespy Lower Sandstone Unit(s), Figure 6D, Potentiometric Surface Contour Map (April 18, 2023) – Gillespy Coal-Pratt Transition Zone, Figure 6E, Potentiometric Surface Contour Map (April 18, 2023) – Pratt Coal Group.**

During the second 2023 semi-annual monitoring event, groundwater elevations ranged from 168.42 to 423.02 feet NAVD88 (with exception of artesian water-level conditions observed at locations MR-AP-MW-5 and MR-AP-PZ-5). The following maps depict groundwater elevations and inferred groundwater flow direction during the second 2023 semi-annual monitoring event: **Figure 7A, Potentiometric Surface Contour Map (September 25, 2023) – Mary Lee Aquifer, Figure 7B, Potentiometric Surface Contour Map (September 25, 2023) – Gillespy Lower Discrete Flow Zone, Figure 7C, Potentiometric Surface Contour Map (September 25, 2023) – Gillespy Lower Sandstone Unit(s), Figure 7D, Potentiometric Surface Contour Map (September 25, 2023) – Gillespy Coal-Pratt Transition Zone, Figure 7E, Potentiometric Surface Contour Map (September 25, 2023) – Pratt Coal Group.**

Potentiometric surface maps for the Site are subdivided into five flow systems based on hydrostratigraphy and vertical separation in groundwater. The Gillespy-Pratt Transition Zone and Pratt Coal Group flow systems have been generalized, as these flow systems are comprised of two to three discrete, sub-flow systems often representing fractures or coal seams separated by confining units. For example, as shown on **Figures 6E and 7E**, the Pratt Group could be further subdivided (vertical separation between MW-9SR/09DR pairs).

These vertical separations in groundwater elevations prominently display the confined to semi-confined conditions described in **Sections 3.2.3 and 3.2.4**. During a detailed review of historical water levels, it was

interpreted that Upper Gillespy and Pratt Transition flow systems can largely be grouped together as one flow system for the purposes of describing groundwater flow.

In general, it is inferred that laterally continuous zones that intersect or have communication with the Ash Pond through interconnected fractures will display radial flow patterns away from the Site and emanate near the stratigraphic intersection with the Ash Pond. Hydrostratigraphic intervals that do not intersect or that have poor to no hydraulic connection with the Ash Pond will display groundwater flow pattern consistent with topography or regional flow patterns. The Gillespy-Pratt Transition Zone, which underlies the largest portion of the pond, exhibits this type of pattern on **Figures 6D and 7D**, as does the Pratt Coal Group on **Figures 6E and 7E**, although true radial flow to the northwest is uncertain in the Pratt Coal Group as these strata daylight to the northwest (proximal to MR-AP-MW-13SR/DR).

As shown on **Figures 6A and 7A**, wells screened within the Mary Lee Coal seam display little hydraulic gradient and groundwater flow towards the Ash Pond and the underground Mary Lee coal mine during the September 2023 groundwater gauging event. As shown on **Figures 6C and 7C**, wells screened within the Gillespy Lower Sandstone show an almost due west to east flow direction, which, combined with the large hydraulic separation between the ash pond and flow system groundwater elevations, indicate no direct hydraulic communication between the two. These are two flow systems that suggest limited or no hydraulic communication with the Plant Miller Ash Pond.

4.1 GROUNDWATER ELEVATION CHANGES

Extensive dewatering has occurred within the Ash Pond as part of the closure process. On April 18, 2023, the average pond elevation was 384.3 feet NAVD88 and down approximately 40 feet from historical operational levels (420 to 423 feet NAVD88). On September 25, 2023, the average pond elevation was 374.2 feet NAVD88 and down approximately 50 feet from historical operational levels. Based on data reviewed, dewatering appears to have driven changes in groundwater elevation and groundwater flow during 2023.

Groundwater elevation data prior to 2020 is used for establishing normal, reference ranges for groundwater elevations and for comparison with most recent groundwater elevations. Wells with sufficient data sets prior to 2020 are limited to compliance wells. Groundwater elevations in multiple well locations during both semi-annual monitoring events were identified as potential lower bound outliers based upon historical groundwater elevation data and screening with Interquartile Range (1.5 x IQR) statistics. These wells demonstrated groundwater elevations significantly lower than expected which implies a correlation or

relationship with lowering pond elevations. During the first semi-annual monitoring event, the following compliance wells exhibited lower bound outlier water elevations:

Well	Lower bound GW Elevation Threshold (IQR)	GW Elevation 4/18/2023	Distance below Lower bound GW Elevation
MR-AP-MW-3S	344.09	340.05	-4.04
MR-AP-MW-3D	323.57	320.24	-3.33
MR-AP-MW-4	380.59	370.50	-10.09
MR-AP-MW-4V	331.81	324.73	-7.08
MR-AP-MW-10	410.19	390.66	-19.53
MR-AP-MW-12	414.94	396.02	-18.95
MR-AP-MW-15	398.94	397.71	-1.23

During the second semi-annual monitoring event, the following compliance wells exhibited lower bound outlier water elevations:

Well	Lower bound GW Elevation Threshold (IQR)	GW Elevation 9/25/2023	Distance below Lower bound GW Elevation
MR-AP-MW-3D	322.72	314.91	-7.81
MR-AP-MW-3S	343.93	336.39	-7.54
MR-AP-MW-4	380.26	363.65	-16.61
MR-AP-MW-4V	324.30	320.19	-4.11
MR-AP-MW-10	409.50	387.03	-22.47
MR-AP-MW-12	414.45	392.32	-22.13
MR-AP-MW-15	397.53	395.35	-2.18
MR-AP-MW-16	385.69	381.57	-4.11

Nine downgradient and delineation wells displayed groundwater elevations above pond elevation (384.03 feet NAVD88 and 374.2 feet NAVD88) on April 18, 2023, and September 25, 2023, respectively. These locations are clustered east and south of the Ash Pond. These data indicate a potential transition in flow direction where: (1) groundwater may flow towards the pond from the east or (2) a no flow boundary develops in the area.

Recent groundwater elevation data recorded since 2016 have been tabulated and included in **Table 3, Groundwater Elevations Summary**. All historical available groundwater data recorded since 2016 have been tabulated and included in **Appendix B**.

4.2 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 coal cleats/fractures, zones of fracture concentration, bedding planes, and other discontinuities in the rock. Therefore, groundwater flow velocity at the Site cannot be accurately quantified using existing Site data.

Aquifer performance testing, including slug tests, has been conducted to characterize hydraulic conductivity values at the Site. Slug and packer testing provided horizontal hydraulic conductivities for the uppermost aquifer between 1.00×10^{-3} cm/sec and 6.00×10^{-7} cm/sec. Hydraulic conductivity in the uppermost aquifer typically ranges between 10^{-4} to 10^{-5} cm/sec with an average 6.15×10^{-4} cm/sec.

The lowest estimated hydraulic conductivity value of 6×10^{-7} cm/sec was derived from packer testing performed at borehole MR-AP-MW-3D (interval 170 ft to 226 ft) and borehole MR-AP-MW-4 (interval 80 ft to 137 ft). The measured recovery for these tests was on the order of 1%. This is indicative of a relatively closed system where fractures, if any, are poorly connected to the surrounding groundwater flow system. The complex lithostratigraphy, sharp permeability contrasts, and fractured nature of the Pottsville Formation contribute to vertical groundwater flow at the Site as well as confining to semi-confining conditions evidenced in the spatial distribution of hydraulic heads.

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at an interval of one sample per group of 10 well locations. Equipment blank and field blank samples were also collected during each sampling event.

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 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 (RPD) Calculations**, provides the relative percent differences for sample and sample duplicates during the annual monitoring period.

During the first 2023 semi-annual sampling event, with the exception of arsenic in wells MR-AP-MW-22S and MR-AP-MW-20HS, all RPDs were below 20%. Because (1) neither result is greater than 5 times the RL (0.0002) and (2) the difference between the original and duplicate result is less than the RL, no data validation flags are applied. All RPDs were below 20% during the second 2023 semi-annual sampling event.

Low-level (trace) detections of chromium and barium were observed in blank samples. **Table 4b – Field QC: Blank Detections**, provides a summary of these detected results. Each of these blank detections was an estimated concentration, above the MDL but below the RL, and qualified in the laboratory analytical reports with “J flags. If blank concentrations are detected above the MDL in field QC samples, all original results less than five times the field QC detection are flagged with a (+) U* and MDL/RL values are modified. The results of the above data validation procedures do not impact Site statistical analyses due to the low-level concentrations and constituents detected.

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

Intrawell prediction limits, combined with a 1-of-2 verification strategy, are used for pH to determine whether there has been SSI over background groundwater quality. Interwell prediction limits, combined with a 1-of-2 verification strategy, are used to evaluate boron, calcium, chloride, fluoride, sulfate, and TDS. Intrawell prediction limits use screened historical data within a given well to establish limits for parameters at that well. The most recent sample from the same well is compared to its respective background to identify SSI over background. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to identify SSI.

Groundwater Stats Consulting demonstrated that these test methods were appropriate in the October 2017 Statistical Analysis Plan, which was updated in August 2020 with additional data screening and evaluation. 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 are also part of the statistical analysis:

- 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.

5.2.2 Appendix IV Evaluation

When in corrective action, 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 (UTL) 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 on 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 3.3.2**), the GWPS is:

- (1) The maximum contaminant level (MCL) established under 40 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 corrective action, 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. Appendix IV constituents will be updated every 2 years initiating with the Fall 2019 event. The latest update to GWPS occurred Fall of 2023 with the succeeding update scheduled for Fall 2025. Data from upgradient wells collected between updates may still be used to support ASDs, if merited.

5.3 STATISTICAL EXCEEDANCES

Analytical data from the first and second 2023 semi-annual monitoring events were statistically analyzed in accordance with the Professional Engineer (PE)-certified Statistical Analysis Plan (October 2017) and revised in August 2020 by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV 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 D, Statistical Analyses**, 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 D**. Site GWPS were updated after the Fall 2023 sampling event. The following subsections describe statistical exceedances reported during the 2023 annual monitoring period.

Comparison with Published GWPS

For this comparison, variance limits for non-MCL constituents are used, and data from newly installed upgradient wells were not factored in.

5.3.2.1 First Semi-Annual Groundwater Monitoring Event

Statistical analysis of Appendix IV data incorporating limits defined in the 2019 ADEM Variance (**Section 3.3.2**) identified the following SSL over GWPS at the listed wells during the first semi-annual monitoring event of 2023:

- MR-AP-MW-1: Lithium.
- MR-AP-MW-2: Cobalt, Lithium.
- MR-AP-MW-3D: Lithium, Arsenic
- MR-AP-MW-3S: Lithium.
- MR-AP-MW-4: Lithium.
- MR-AP-MW-5: Lithium.
- MR-AP-MW-6: Lithium.
- MR-AP-MW-7SR: Lithium.
- MR-AP-MW-7DR: Lithium.
- MR-AP-MW-9DR: Lithium.
- MR-AP-MW-10: Lithium, Molybdenum.
- MR-AP-MW-11: Lithium.
- MR-AP-MW-12: Lithium, Molybdenum.
- MR-AP-PZ-5: Lithium.
- MR-AP-MW-13SR: Cobalt.
- MR-AP-MW-16: Lithium

Delineation Wells

Limited groundwater analytical data is available for delineation wells installed at the Site; therefore, groundwater quality is simply compared to the GWPS. Similar to above, this comparison includes variance limits for non-MCL constituents and does not include Site-specific background derived GWPS. A review of analytical data derived from delineation wells revealed the following GWPS exceedances for the first 2023 semi-annual sampling event:

- MR-AP-MW-4V: Lithium
- MR-AP-MW-6V: Lithium.
- MR-AP-MW-17H: Lithium.
- MR-AP-MW-18H: Lithium.
- MR-AP-MW-19HA: Lithium.
- MR-AP-MW-20H: Lithium.
- MR-AP-MW-20HS: Lithium.
- MR-AP-MW-27HR: Lithium
- MR-AP-MW-28H: Lithium.
- MR-AP-MW-30H: Lithium.
- MR-AP-MW-31H: Lithium
- MR-AP-MW-33H: Lithium, Cobalt.
- MR-AP-MW-34H: Lithium.
- MR-AP-MW-35H: Arsenic.
- MR-AP-MW-36HR: Lithium.
- MR-AP-MW-37H: Lithium.

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 delineation report on May 13, 2019, and subsequent progress updates submitted in September 2019 and March 2020.

Comparison with Site Background - Lithium

During the first semi-annual monitoring event, Appendix IV data were compared to background concentrations from newly installed upgradient well GS-AP-MW-17V. The primary difference is the increase in the lithium GWPS from 0.04 to 0.0809 mg/L. For this comparison, only lithium exceedances are noted.

Using concentrations from MR-AP-MW-17V as a guide for Site-specific background concentrations, the following concentrations were identified over GWPS at the listed downgradient wells:

- MR-AP-MW-1: Lithium.
- MR-AP-MW-2: Lithium.
- MR-AP-MW-3D: Lithium.
- MR-AP-MW-3S: Lithium.
- MR-AP-MW-5: Lithium.
- MR-AP-MW-7SR: Lithium.
- MR-AP-MW-7DR: Lithium.
- MR-AP-MW-10: Lithium.
- MR-AP-MW-11: Lithium.
- MR-AP-PZ-5: Lithium.

The increased GWPS (from 0.04 to 0.0809 mg/L) reduces the number of lithium exceedances from 15 to 10.

Delineation Wells

The same comparison is made with Site delineation wells. A review of analytical data derived from delineation wells revealed the following GWPS exceedances for the first semi-annual sampling event:

- MR-AP-MW-6V: Lithium.
- MR-AP-MW-18H: Lithium.
- MR-AP-MW-19HA: Lithium.
- MR-AP-MW-20H: Lithium.
- MR-AP-MW-30H: Lithium.
- MR-AP-MW-31H: Lithium.
- MR-AP-MW-33H: Lithium.
- MR-AP-MW-34H: Lithium.
- MR-AP-MW-36HR: Lithium.

The increased GWPS (from 0.04 to 0.0809 mg/L) reduces the number of lithium exceedances from 15 to 9.

Table 6, First Semi-Annual Monitoring Event Analytical Results Summary, provides a summary of all detected constituents for the first 2023 semi-annual sampling event. Statistical reporting output is included as **Appendix D**.

5.3.2.2 Second Semi-Annual Monitoring Event

During the second semi-annual monitoring event, statistical analysis of Appendix IV data incorporating limits defined in the 2019 ADEM Variance (**Section 3.3.2**) identified the following SSL over GWPS at the listed downgradient wells:

- MR-AP-MW-1: Lithium.
- MR-AP-MW-2: Cobalt, Lithium.
- MR-AP-MW-3D: Lithium, Arsenic
- MR-AP-MW-3S: Lithium.
- MR-AP-MW-4: Lithium.
- MR-AP-MW-5: Lithium.
- MR-AP-MW-6: Lithium.
- MR-AP-MW-7SR: Lithium.
- MR-AP-MW-7DR: Lithium.
- MR-AP-MW-9SR: Lithium.
- MR-AP-MW-9DR: Lithium.
- MR-AP-MW-10: Lithium, Molybdenum.
- MR-AP-MW-11: Lithium.
- MR-AP-MW-12: Lithium, Molybdenum.
- MR-AP-PZ-5: Lithium.
- MR-AP-MW-13SR: Cobalt.
- MR-AP-MW-16: Lithium

Statistical analysis of Appendix IV concentrations over GWPS from monitoring well MR-AP-MW-9SR identified lithium as an SSL for the first time during the second 2023 semi-annual sampling event.

Delineation Wells

Limited groundwater analytical data is available for delineation wells installed at the Site; therefore, groundwater quality is simply compared to the GWPS. Similar to above, this comparison includes variance limits for non-MCL constituents and does not include Site-specific background derived GWPS. A review of analytical data derived from delineation wells revealed the following GWPS exceedances for the second semi-annual sampling event:

- MR-AP-MW-6V: Lithium.
- MR-AP-MW-17H: Lithium.
- MR-AP-MW-18H: Lithium.
- MR-AP-MW-19HA: Lithium.
- MR-AP-MW-20H: Lithium.
- MR-AP-MW-27HR: Lithium
- MR-AP-MW-28H: Lithium.
- MR-AP-MW-30H: Lithium.
- MR-AP-MW-31H: Lithium
- MR-AP-MW-33H: Lithium, Cobalt.
- MR-AP-MW-34H: Lithium.
- MR-AP-MW-35H: Arsenic.
- MR-AP-MW-36HR: Lithium, Molybdenum.
- MR-AP-MW-37H: Lithium.

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 delineation report on May 13, 2019, and subsequent progress updates submitted in September 2019 and March 2020.

Comparison with Site Background - Lithium

During the second semi-annual monitoring event, Appendix IV data were compared to background concentrations from newly installed upgradient well GS-AP-MW-17V. The primary difference is the increase in the lithium GWPS from 0.04 to 0.0809 mg/L. For this comparison, only lithium exceedances are noted.

Using concentrations from MR-AP-MW-17V as a guide for Site-specific background concentrations, the following concentrations were identified over GWPS at the listed downgradient wells:

- MR-AP-MW-1: Lithium.
- MR-AP-MW-2: Lithium.
- MR-AP-MW-3D: Lithium.
- MR-AP-MW-3S: Lithium.
- MR-AP-MW-5: Lithium.
- MR-AP-MW-7SR: Lithium.
- MR-AP-MW-7DR: Lithium.
- MR-AP-MW-10: Lithium.
- MR-AP-MW-11: Lithium.
- MR-AP-PZ-5: Lithium.

The increased GWPS (from 0.04 to 0.0809 mg/L) reduces the number of lithium exceedances from 17 to 10.

Delineation Wells

The same comparison is made with Site delineation wells. A review of analytical data derived from delineation wells revealed the following GWPS exceedances for the second semi-annual sampling event:

- MR-AP-MW-17H: Lithium.
- MR-AP-MW-18H: Lithium.
- MR-AP-MW-19HA: Lithium.
- MR-AP-MW-20H: Lithium.

- MR-AP-MW-30H: Lithium.
- MR-AP-MW-31H: Lithium.
- MR-AP-MW-33H: Lithium.
- MR-AP-MW-34H: Lithium.
- MR-AP-MW-36HR: Lithium.

The increased GWPS (from 0.04 to 0.0809 mg/L) reduces the number of lithium exceedances from 13 to 9.

Table 7, Second Semi-Annual Monitoring Event Analytical Results Summary, provides a summary of all detected constituents for the second 2023 semi-annual sampling event. Statistical reporting output is included as **Appendix D**.

6.0 GROUNDWATER ASSESSMENT AND CORRECTIVE ACTION

As required by Part E of the Order (AO 18-098-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 is 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 has 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 were routinely provided to ADEM in March and September. 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 now provides ADEM with a discussion of delineation results and activities in each semi-annual groundwater monitoring and corrective action report 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 following sections describe monitoring wells installed to delineate impacts to groundwater.

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

Phase I was conducted between January 14, 2019, and August 15, 2019. **Tables 1a** through **1c** and **Figure 5** present details and locations of delineation wells. The following summarizes all activities that were completed during Phase I of groundwater delineation at the Site:

- Installed four horizontal delineation wells (MR-AP-MW17H, MR-AP-MW-18H, MR-AP-MW-20H, and MR-AP-MW-20HS), two vertical delineation wells (MR-AP-MW-4V and MR-AP-MW-6V), and three ash pond piezometers (MR-AP-MW-2V, MR-AP-MW-3V, and MR-AP-MW-19H) between January 14, 2019, and February 23, 2019. Additionally, a characterization well (MR-AP-MW-21) was

installed approximately 2 miles west-northwest of Plant Miller to assess the viability of using the well for background groundwater quality. The location was chosen based on its similar position on the Sequatchie Anticline and APC land ownership. This area is on the opposite limb of the Sequatchie Anticline, but at similar elevation, structural, and stratigraphic setting.

- Developed delineation wells between February 1, 2019, and March 3, 2019. Vertical delineation wells MW-2V and MW-3V and horizontal delineation well MW-19H did not yield sufficient water for well development or sampling and were designated as water level only piezometers.
- Sampled the newly installed wells that were successfully developed on March 5, 2019, and March 6, 2019.
- Submitted a Groundwater Investigation Report to ADEM 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 and included a well installation plan to install additional upgradient monitor wells in the area of the previously successfully installed monitor well MR-AP-MW-21. The installation of the proposed additional upgradient locations was approved in July 2019 by ADEM.
- Submitted an Assessment of Corrective Measures to ADEM on July 11, 2019, as required by Part C of the Order.
- Submitted a Phase II – Groundwater Delineation Plan to ADEM on August 15, 2019. This plan documented planned activities associated with proposed Phase II delineation efforts.
- On December 30, 2019, provided ADEM with a response to comments received from ADEM on November 14, 2019.

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

Following a review of data gathered from the Phase I Investigation, additional groundwater investigation was proposed to ADEM in a Phase II Delineation Plan submitted August 15, 2019, to further delineate extent of groundwater impacts. Additionally, ash pond closure activities necessitated the abandonment and relocation of nine downgradient compliance locations. A plan for the abandonment and relocation of the nine monitoring wells was submitted to ADEM in February 2020 and approved in May 2020. **Tables 1a through 1c** and **Figure 5** present details and locations of Phase II delineation well activities conducted between November 20, 2019, and March 10, 2020.

Phase II abandonment, replacement, and additional upgradient activities conducted between June 16, 2020, and September 25, 2020, were ongoing and at the time of this report.

The following summarizes all activities that were completed during Phase II of groundwater delineation at the Site:

- Installed twelve horizontal delineation wells (MR-AP-MW-19HA, MR-AP-MW-27H, MR-AP-MW-28H, MR-AP-MW-29H, MR-AP-MW-30H, MR-AP-MW-31H, MR-AP-MW-32H, MR-AP-MW-33H, MR-AP-MW-34H, MR-AP-MW-35H, MR-A-MW-36H, and MR-AP-MW-37H) and one additional upgradient well (MR-AP-MW-23) between November 20, 2019 and January 7, 2020.
- Developed the delineation wells and upgradient well between December 16, 2019, and February 24, 2020. Horizontal delineation wells MR-AP-MW-27H, MR-AP-MW-29H, MR-AP-MW-31H, and MR-AP-MW-36H did not yield sufficient water for well development or sampling and were designated as water-level-only piezometers.
- Sampled the newly installed wells that were successfully developed during semi-annual assessment monitoring between March 2, 2020, and March 12, 2020.
- Submitted a Groundwater Monitoring Well Installation and Abandonment Request February 19, 2020, and revised April 22, 2020, that was approved by ADEM May 4, 2020. A revised work plan added to the original scope of work to include the abandonment and reinstallation of three previously installed horizontal delineation wells re-designated as piezometers (MR-AP-MW27H, MR-AP-MW-29H, and MR-AP-MW-36H) and the installation of one additional upgradient well location (MR-AP-MW-22). Additionally, the plan included a reduction of the number of relocation monitoring wells from nine to seven.
- Abandoned nine downgradient monitor wells (MR-AP-MW-7S, MR-AP-MW-7D, MR-AP-MW-8S, MR-AP-MW-8D, MR-AP-MW-9S, MR-AP-MW-9D, MR-AP-MW-13S, MR-AP-MW-13D, and MR-AP-MW-14) due to ash pond closure activities on June 16, 2020, and June 17, 2020.
- Installed replacement downgradient monitor wells (MR-AP-MW-7SR, MR-AP-MW-7DR, MR-AP-MW-9SR, MR-AP-MW-9DR, MR-AP-MW-13SR, MR-AP-MW-13DR, and MR-AP-MW-14R) between June 29, 2020, and July 15, 2020.
- Abandoned previously installed unsuccessful horizontal delineation wells (MR-AP-MW27H, MR-AP-MW-29H, and MR-AP-MW-36H) between August 9, 2020, and August 22, 2020, and installed replacement wells (MR-AP-MW27HR and MR-AP-MW-36HR) on August 9, 2020. The replacement horizontal delineation well (MR-AP-MW-29HR) boring was abandoned August 5, 2020, due to the presence of predominately mine spoils.

- Installed four additional upgradient monitor wells (MR-AP-MW-23A, MR-AP-MW-22S, MR-AP-MW-22I, and MR-AP-MW-22D) approximately 2 miles west-northwest of Plant Miller between August 18, 2020, and September 2, 2020.
- Surveyed replacement well and additional upgradient wells between September 23, 2020, and September 25, 2020.

6.2 NATURE AND QUANTITY OF RELEASE

Part B of the Order also required 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, sampling of ash pore-water at three locations was conducted. 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 to constituents to groundwater.

6.3 DELINEATION RESULTS

Groundwater Monitoring and Corrective Action reports for the Plant Miller Ash Pond have identified SSL in groundwater for arsenic, cobalt, lithium, and molybdenum. Isoconcentration maps are presented in **Figures 8A** through **12B**, respectively.

The displayed Isoconcentration lines shown on **Figures 8A** through **12B** are data-driven contours derived from the spatial distribution of constituent concentrations in the well network. When spatially distributed objects are spatially correlated (i.e., objects close to together have similar characteristics) interpolation analysis can be used to predict “unknowns” between objects. ArcGIS and geostatistical analyst are used to interpolate chemical concentrations between well locations. This process involves the transformation of chemical concentration data to log-normal distribution prior to interpolation. In cases where concentrations decrease below the GWPS between well pairs, the extent of groundwater impacts is interpreted from the interpolated (predicted) data set. This method considers the spatial pattern of decreasing concentrations observed in nearby wells. Additionally, when applicable, isoconcentration maps have been subdivided by major flow system.

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

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

As shown on **Table 1B**, 17 delineation wells have been installed at the Site to assess potential impacts. Additionally, three delineation wells were installed but did not produce sufficient groundwater yield to sample (**Table 1C**).

A geogenic study to evaluate natural sources of arsenic, cobalt, lithium, and molybdenum began in the fall of 2022 and is currently ongoing. This study is a continuation of previous data evaluations that have

included boron isotopic analyses, tritium analyses, desktop studies on Pottsville rock chemistry, and additional background water quality analyses. These data have provided strong signals of geogenic sources of constituents of interest (COI) in many wells and areas of the Site. Upon completion of the geogenic study, a report documenting findings and recommendations will be submitted to ADEM. These recommendations could include additional groundwater assessment in areas of the Site described in this section.

The geology, hydrostratigraphy, and geochemical variability (including potential natural sources of trace metals) beneath Plant Miller is incredibly complex. The following discussion provides the most comprehensive discussion of hydrostratigraphy and results to date. **Section 6.4** provides a recommended path forward.

Arsenic Delineation

Arsenic mobilization and concentrations are significantly influenced by pH (between 6.5 and 8.5) and by redox conditions (range between 50 and -150 mV). This geochemical behavior can result in variations over time driven by changes in pH and ORP.

At the Site, arsenic has historically exceeded the GWPS at compliance wells MR-AP-MW-3D and MR-AP-MW-5, and more recently, delineation well MR-AP-MW-35H and compliance well MR-AP-MW-10. **Figure 8A, Arsenic Isoconcentration Map (April to May 2023)**, and **Figure 8B, Arsenic Isoconcentration Map (September to October 2023)**, show the locations and extent of arsenic concentrations over the GWPS during the first and second semi-annual monitoring events. Currently, arsenic in well MR-AP-MW-3D is the only SSL according to the most recent statistical analyses report (**Appendix D**). Figures were not subdivided by flow system because arsenic exceedances are so limited. The following paragraphs provide recent details and findings related to arsenic concentrations.

Mary Lee – Gillespy Transition Zone

Following the March 2022 sampling event, statistical analyses indicated that arsenic was no longer an SSL in well MR-AP-MW-3D. However, an increase in arsenic during the September 2022 sampling event resulted in the re-occurrence of an SSL and it has since remained above the GWPS.

Proximal to MR-AP-MW-3D, (1) the shallow, paired well MR-AP-MW-3S has never exceeded the GWPS for arsenic (range of non-detect to 0.0026 mg/L) and (2) a deeper focused vertical delineation well, MR-AP-MW-3V, drilled to a terminal depth of 225 feet and logged with geophysical and hydrophysical

methods, did not encounter a deeper interval of groundwater production. MR-AP-MW-3V was installed approximately 55 feet deeper than MR-AP-MW-3D and screened 10 to 20 feet above the Mary Lee Coal seam, but as indicated by logging, was not a productive well. These data show that groundwater flow in this area is likely preferential and limited to the bedding plane parallel fractures screened by wells MR-AP-MW-3S and MR-AP-MW-3D. Given the lack of groundwater production below the MR-AP-MW-3D screen interval, and the discrete nature of this flow interval, no additional vertical delineation has been recommended.

To the west of MR-AP-MW-3D, there is a steep slope down to a narrow valley, which is bordered to its west by a steep slope upward to a north-south trending ridge. These sharp changes in topography prevent horizontal delineation from occurring at a close spacing to MR-AP-MW-3D. As a result, MR-AP-MW-18H was installed on the opposite ridgeline for purposes of groundwater delineation west of MR-AP-MW-3D. The geophysical log obtained from MR-AP-MW-18H identified the equivalent stratigraphic interval screened by MR-AP-MW-3D. However, hydrophysical logging did not provide strong indications of groundwater flow or yield coming from it, and the well was ultimately installed deeper within an alternating mudstone, sandstone sequence within the Mary Lee Coal Group (~ 50 to 60 feet above the Mary Lee coal). To date, analytical results from MR-AP-MW-18H have shown arsenic to be well below GWPS.

Gillespy Lower Discrete Flow Interval

During the March 2022 sampling event, the arsenic concentration in well MR-AP-MW-5 decreased below the GWPS with a concentration of 0.00987 mg/L. Arsenic concentrations have continued to decline since March 2022 and remain below GWPS. The deeper paired location MR-AP-PZ-5 has been sampled 21 times with no arsenic exceedances observed. All 21 arsenic samples have been non-detect or low-level estimated concentrations.

Mary Lee Coal Group

As shown on **Figures 8A** and **8B**, arsenic exceeds GWPS at delineation well MR-AP-MW-35H. However, the arsenic exceedance at this location does not appear to be an impact from the facility and no further delineation is being proposed in this area. The rationales are:

- (1) Groundwater flow direction is generally towards the Ash Pond and Locust Fork, indicating a hydraulic connection does not exist between the well and ash pond (**Figures 6A** and **7A**).
- (2) Arsenic has not been detected above the GWPS in wells between MR-AP-MW-35H and the ash pond or generally along the northern and northwestern boundaries (**Figures 8A** and **8B**).

- (3) Arsenic has not been detected above the GWPS in Mary Lee Coal Group wells (**Figures 8A and 8B**).
- (4) Low boron concentrations.
- (5) Different geochemical facies than ash pond pore-water samples.
- (6) Groundwater elevations not responsive to ash pond dewatering.

No additional delineation is proposed or recommended in this area.

Pratt Coal Group

Arsenic concentrations in well MR-AP-MW-10 increased significantly during 2022 but have not yet been observed as an SSL. Prior to 2022, arsenic concentrations were “J-flagged” 15 out of 18 times and demonstrated a low concentration range between 0.001 and 0.003 mg/L. A 30-ft decrease in groundwater elevation was noted over 2022 along with increasing conductivity, sodium, sulfate, boron, and TDS. A significant DO spike was observed during the March 2022 monitoring event as well. This well appears to be in a state of change or disequilibrium.

Since the concentration spike in March 2022, arsenic concentrations have decline from 0.061 mg/L to 0.024 mg/L and 0.027 mg/L in May and October 2023 respectively. If arsenic concentrations remain elevated and trigger an SSL, additional field studies may be necessary.

Lithium Delineation

As presented in **Section 5.3.2**, lithium exceedances downgradient of the Plant Miller Ash Pond are the most numerous. Lithium concentrations have been observed above 0.04 mg/L in 44 active or historical wells, which represent 85% of wells sampled. Included in these numbers are six background locations. **Figures 9A, Lithium Concentration Call-Out Map (April to May 2023)**, and **10A, Lithium Concentration Call-Out Map (September to October 2023)**, provide lithium concentrations observed during the first and second semi-annual monitoring events. Data presented on **Figures 9A and 10A** suggest that lithium increases with distance away from the facility as well as with increasing depth, indicating a natural component of lithium.

Background piezometers, installed to the northwest of the ash pond and on the opposite side of the Locust Fork, have been sampled and analyzed for Appendix III and Appendix IV constituents to ascertain groundwater quality in the Pottsville. Additionally, upgradient wells at Plant Gorgas facilities can be used to further evaluate groundwater quality and variability in the Pottsville. A review of these data suggests that

background lithium concentrations are quite commonly elevated in respect to 0.04 mg/L and display naturally variability.

Table 8, Pottsville Background – Lithium and Boron Concentrations, provides background lithium and boron concentration ranges in groundwater by well and by coal group. As presented in this table, lithium concentrations range from 0.0252 to 1.17 mg/L in the lower Mary Lee Coal Group, ND to 0.1030 mg/L in the Upper Pratt Coal Group, and 0.0241 to 0.419 in the Pratt Coal Group + Mine Backfill category. Eight of the 13 wells had the lowest concentrations above the lithium GWPS (0.04 mg/L). The following discussion examines lithium concentrations and is broken down by flow system.

Mary Lee Flow System (Lowermost Flow System)

Figure 9B, Mary Lee Aquifer – Lithium Isoconcentration Map (April to May 2023), and **Figure 10B, Mary Lee Aquifer – Lithium Isoconcentration Map (September to October 2023)**, present lithium concentrations from the first and second sampling events in the Mary Lee Flow System.

As shown on **Figures 6A and 7A**, wells screened within the Mary Lee Coal seam display little hydraulic gradient and groundwater flow towards the Ash Pond and the underground Mary Lee coal mine during the September 2023 groundwater gauging event.

This is the result of a hydraulic connection with the underground Mary Lee mine (Porter Mine), which may have a constant head near 280 feet MSL. Groundwater elevations in Mary Lee wells demonstrate a vertical hydraulic separation of approximately 123 feet from the historic operating levels within the ash pond (423 to 280 feet NAVD88) and are physically separated by 150 to 300 feet of Pottsville strata. Given the (1) lack of hydraulic gradient away from the ash pond, (2) large, vertical hydraulic separation indicative of confining conditions, and (3) great thickness of low permeability materials in between the ash pond and the Mary Lee Flow System, it does not appear the Mary Lee Flow System is a pathway for contaminant migration or is hydraulically connected to the ash pond.

Nine of 13 Mary Lee coal samples viewed from the USGS COALQUAL database exceeded the lithium crustal average of 20 ppm, and typically ranged from 30 to 45 ppm, providing a documented natural source of lithium. Lithium concentrations in the Mary Lee flow system during the most recent sampling event ranged from 0.0298 to 0.2680 mg/L. Boron concentrations ranged from 0.0653 to 0.2710 mg/L. These results are similar to upgradient piezometers screened in the Mary Lee Coal Group presented in **Table 8** where lithium concentrations have ranged from 0.0252 to 1.20 mg/L (averaging – 0.482 mg/L) and boron concentrations have ranged from 0.0619 to 0.779 mg/L (averaging – 0.338 mg/L).

Geochemically, Piper diagrams show that four of the five wells screened across the Mary Lee coal are in geochemical facies indicative of deep, old groundwater. Two wells (MR-AP-MW-19HA and MR-AP-PZ-5) plot in the bottom quadrant of the diamond, which represents a sodium bicarbonate water type. Sodium bicarbonate water types are typical of deep groundwater that is influenced by ion-exchange processes. Two wells (MR-AP-MW-1 and MR-AP-MW-34HA) plot in the right quadrant of the diamond, which represents a sodium chloride water type. Sodium chloride water types are typical of marine and deep, ancient groundwater. This Piper and geochemical facies analyses correlate well with Site hydrogeologic and geologic data and further suggest that the Mary Lee is not a potential pathway for COI migration.

The sample from MR-AP-MW-2 plotted in the upper quadrant indicates a calcium chloride water type. This water type does match the typical water type of CCR pore water, and further geochemical analyses will be conducted to explore potential sources of elevated lithium in MR-AP-MW-2. However, boron isotopic analyses, boron to lithium ratios, and lack of groundwater elevation response to ash pond dewatering strongly suggest a natural or mine-aided source of lithium in well MR-AP-MW-2. Tritium age dating suggests potential groundwater ages of 1958 to 1961 or 1967 to 1971, which pre-date the ash pond (1978).

No additional delineation is recommended in the vicinity of wells MR-AP-MW-1, MR-AP-MW-2, MR-AP-PZ-5, MR-AP-MW-19HA, and MR-AP-MW-34H due to hydrogeologic and geochemical data discussed above.

Mary Lee – Gillespy Transition

Monitoring wells MR-AP-MW-3S and MR-AP-MW-3D occupy discrete groundwater yielding intervals between the Mary Lee coal seam (75 to 110 ft above) and the Gillespy Lower Discrete Flow Zone (40 to 60 ft below) not readily observed in wells to the south or west (perhaps in geophysical log for MR-AP-PZ-5 at depth of ~100 ft BGS). For the purpose of this discussion, we will label this discrete flow zone the Mary Lee to Gillespy Transition Zone although it likely represents the basal flow interval of the Gillespy Coal Group.

MR-AP-MW-3S has exhibited decreasing trends for lithium and boron since the May 2021 sampling event. This follows an increasing trend that began in 2018. Data analyses suggest a strong possibility that MR-AP-MW-3S has a natural or geogenic source of lithium. The rationales for this classification are: boron isotopic analyses, boron to lithium ratios, and geochemical facies indicative of older or different water from pore-water.

MR-AP-MW-3D, installed 30 feet deeper, has demonstrated downward trends for lithium and boron since the September 2021 sampling event. These paired well locations demonstrate confined conditions between

the screened intervals, as groundwater elevations in MR-AP-MW-3S typically range from 347 to 350 feet NAVD88 and groundwater elevations in MR-AP-MW-3D typically range from 325 to 330 feet NAVD88. During most monitoring events, groundwater elevations demonstrate a hydraulic separation between 19 and 21 feet.

MR-AP-MW-3V, drilled to a terminal depth of 225 feet and logged with geophysical and hydrophysical methods, did not encounter a deeper interval of groundwater production. MR-AP-MW-3V was installed approximately 55 feet deeper than MR-AP-MW-3D and screened 10 to 20 feet above the Mary Lee Coal seam, but as indicated by logging, was not a productive well. These data show groundwater flow in this area is likely preferential and limited to the bedding plane parallel fractures screened by wells MR-AP-MW-3S and MR-AP-MW-3D. Given the lack of groundwater production below the MR-AP-MW-3D screen interval, and the discrete nature of this flow interval, no additional vertical delineation has been recommended. Furthermore, as previously discussed with arsenic delineation results, the Mary Lee coal, which would be the next (deeper) flow system encountered, does not appear hydraulically connected to the ash pond.

To the west of MR-AP-MW-3D, there is a steep slope down to a narrow valley, which is bordered to its west by a steep slope upward to a north-south trending ridge. These sharp changes in topography prevent horizontal delineation from occurring at a close spacing to MR-AP-MW-3D. As a result, MR-AP-MW-18H, was installed on the opposite ridgeline for purposes of groundwater delineation west of MR-AP-MW-3D. The geophysical log obtained from MR-AP-MW-18H identified the equivalent stratigraphic interval screened by MR-AP-MW-3D, but hydrophysical logging did not provide strong indications of groundwater flow or yield coming from it. The well was ultimately installed deeper within an alternating mudstone, sandstone sequence within the Mary Lee Coal Group (~ 50 to 60 feet above the Mary Lee coal).

Stratigraphically, the screened interval of MR-AP-MW-18 is approximately 30 feet lower than the screened interval of MR-AP-MW-3D. To date, analytical results from MR-AP-MW-18H have shown seasonality, where lithium concentrations typically demonstrate lower concentrations in the late winter and spring (0.0875 to 0.167 mg/L) and higher concentrations in the late summer and early fall (0.154 to 0.230 mg/L). This further supports seasonally driven concentration patterns. This pattern is not observed in wells MR-AP-MW-3S, MR-AP-MW-3D, or any other well nearby, and perhaps suggests an alternative source of lithium.

Piper diagrams further suggest an alternate source by showing that MR-AP-MW-18H has a sodium chloride water type, which is indicative of deep, ancient groundwater and different than the calcium chloride water type typical of CCR leachates.

Gillespy – Lower Discrete Flow Zone

Figure 9C, Gillespy Lower Discrete Flow Zone – Lithium Isoconcentration Map (April to May 2023), and Figure 10C, Gillespy Lower Discrete Flow Zone – Lithium Isoconcentration Map (September to October 2023), present lithium concentrations observed in this discrete flow zone, which resides approximately 150 to 160 feet above the base of the Mary Lee coal seam. As shown on **Figure 9C**, lithium concentrations ranged from 0.0415 to 0.274 mg/L. Lithium concentrations from the April to May 2023 sampling event were near the GWPS at locations MR-AP-MW-4V and MR-AP-MW-20HS but were much higher in locations MR-AP-MW-33H, MR-AP-MW-5, and MR-AP-MW-7SR.

Historically, MR-AP-MW-4V, located proximal to the ash pond, had demonstrated fluctuating lithium concentrations below or just above the GWPS and therefore, provided northern delineation. However, in March 2022, lithium concentrations increased to 0.12 mg/L and then in September 2022 to 0.155 mg/L. Multiple parameters demonstrated an increase between April 2021 and September 2022. However, concentrations decreased sharply during sampling on May 2, 2023, with lithium concentrations observed at 0.0434 mg/L. Delineation well MR-AP-MW-4V did not produce sufficient water for sampling during the September to October 2023 sampling event. As discussed in Section 4.1, some Site wells have demonstrated groundwater elevations significantly lower than expected which implies a correlation or relationship with lowering pond elevations. The groundwater elevation in vertical delineation well MR-AP-MW-4V has decreased 16.41 feet from September 2021 (336.60 feet NAVD88) to September 2023 (320.19 feet NAVD88).

To the south, the pattern of increased concentrations may have been related to: (1) location of dam providing higher driving force (gradients) for preferential flow, (2) increased hydraulic communication via vertical fractures, or (3) increasing contributions of alternative or natural sources of lithium along the flow path.

Gillespy – Lower Sandstone Interval

Figure 9D, Gillespy Lower Sandstone Unit(s) – Lithium Isoconcentration Map (April 2023), and Figure 10D, Gillespy Lower Sandstone Unit(s) – Lithium Isoconcentration Map (September to October 2023), present lithium concentrations observed in this discrete flow zone, which resides approximately 60 to 70 feet above the Gillespy Lower Discrete Flow Zone (presented in **Figure 9C and 10C**) and approximately 250 feet above the base of the Mary Lee coal (presented in **Figure 9B and 10B**).

Due to the limited spatial occurrence (interval would daylight to the north between MR-AP-MW-4/4V and MR-AP-MW-6/6V), only four wells are installed across this interval. Lithium concentrations ranged from non-detect to 0.212 mg/L in this flow zone during the April-May 2023 sampling event and from non-detect to 0.214 mg/L during the September-October 2023 sampling event.

Groundwater elevations in this flow interval are unique, because (1) hydraulic gradients are minimal, (2) groundwater elevations indicate no connection with the ash pond (historic pond elevation = 423 feet NAVD88 vs interval groundwater elevation = ~259 feet NAVD88), and (3) groundwater flow direction is nearly due east with no apparent components of radial flow or influence from the ash pond. Furthermore, it appears there is a small upward vertical gradient from the Gillespy Lower Discrete Flow Zone towards the Lower Sandstone Interval, although more data are needed to confirm.

As shown on **Figures 9D and 10D**, the Lower Sandstone Interval is delineated to the south by well MR-AP-MW-32H. Additional evaluation of this flow interval may be conducted pending results and recommendations from the Geogenic Study.

Gillespy – Upper Sandstone Interval

Figure 9E, Gillespy Coal – Pratt Transition Zone – Lithium Isoconcentration Map (April to May 2023) and Figure 10E, Gillespy Coal – Pratt Transition Zone – Lithium Isoconcentration Map (September to October 2023), present lithium concentrations observed in this zone, which resides approximately 25 to 70 feet above the Gillespy Lower Sandstone Interval (presented in **Figures 9D and 10D**).

The lower screened intervals of this zone, captured by well MR-AP-MW-27HR, are likely discrete intervals confined from wells installed higher stratigraphically. It is important to note that this zone is not present in the subsurface west of MR-AP-MW-4, MR-AP-MW-6, and MR-AP-MW-7S due to lower topography. Similarly, this zone will not be present in the subsurface north of MR-AP-MW-4 and from a point about 200-300 feet north of MR-AP-MW-16 due to structural dip and topography (daylights north of these areas – above ground surface or not present). These areas to the west and north have already been addressed by discussion of deeper flow systems.

As shown on **Figures 9E and 10E**, lithium concentrations increase in the general direction of groundwater flow to the southeast. Lithium concentrations increase significantly under the southeastern portion of the Site that was previously strip-mined down to the American Coal (lowermost major coal of the Pratt Group). Based on this information, additional delineation in this flow system would have to occur further southeast, which is also the location of a Pratt Group coal mine. Proposing delineation within the footprint of a strip

mine is dubious because wells would likely not provide representative groundwater quality and could introduce additional sources of lithium, such as coal storage, weathered mine backfill, and mine impoundments. A single, additional delineation well southeast of MR-AP-MW-7SR could be installed for additional coverage near the property line. However, this area of the Site is adjacent to the Pratt Coal Group mine as noted above.

To the north, lithium concentrations are above the GWPS in well MR-AP-MW-16 and had been observed as an SSL for the first time during the April-May 2023 sampling event and again in the September-October 2023 sampling event. Additional evaluation and delineation near MR-AP-MW-16 may be conducted pending results and recommendations from the Geogenic Study.

Pratt Group

Figure 9F, Pratt Coal Group – Lithium Isoconcentration Map (April to May 2023) and **Figure 10F, Pratt Coal Group – Lithium Isoconcentration Map (September to October 2023)**, presents lithium concentrations observed in Pratt Coal Group strata. The Pratt Coal Group only underlies the extreme southeastern portion of the Site and was extensively strip mined directly adjacent to the ash pond. Strip mining generally occurred to the east of a line drawn from MR-AP-MW-7SR/DR to MR-AP-MW-13SR/DR. Wells installed at the Site to monitor the Pratt Coal Group largely avoided mine backfill material but are installed lateral to this backfilled strip mine.

Similar to lithium concentrations in the Gillespy-Pratt transition zone (**Figures 9E and 10E**), lithium concentrations increase significantly beneath portions of the Site previously strip mined. It is likely that historical strip mining and weathered backfilled materials contribute to the elevated lithium in these areas.

Additional delineation would typically be proposed to the southeast. However, as mentioned above, the adjacent properties to the southeast are all strip mines where the Pratt Group has been or is in the process of being removed. Aerial imagery indicates that, most, if not all, Pratt Group strata have been removed southeast of the ash pond. Further southeast and adjacent to these mines is a coalbed methane degasification field.

No additional horizontal delineation is feasible to the southeast in the Pratt Coal Group flow system. Boron isotope sampling and analyses are recommended in select wells in this flow system to determine for CCR signatures. The notable increases in lithium concentrations underlying strip mined areas combined with relatively lower boron concentrations could indicate an alternative source for some of these wells.

Cobalt Delineation

Cobalt mobilization and concentrations are significantly influenced by pH (below 6 to 6.25 SU), organic matter in aquifer materials, and by redox conditions (positive ORP conditions). This geochemical behavior can result in variations over time driven by changes in pH and ORP.

Figure 11A, Cobalt Isoconcentration Map (April to May 2023), and Figure 11B, Cobalt Isoconcentration Map (September to October 2023), show cobalt concentrations at the Site. Historically, cobalt has demonstrated GWPS exceedances at locations MR-AP-MW-2, MR-AP-MW-4, MR-AP-MW-6, and MR-AP-MW-13S/13SR. Cobalt concentrations in compliance wells MR-AP-MW-4 and MR-AP-MW-6 have been steadily decreasing over time. Neither of these wells was observed as an SSL during the most recent sampling. Cobalt concentrations increased to slightly above the GWPS at well MR-AP-MW-6 during the 2023 sampling events. Cobalt concentrations in monitor well MR-AP-MW-4 have decreased to below GWPS for the last four sampling events.

During the most recent event, cobalt concentrations were observed above the GWPS in MR-AP-MW-2, MR-AP-MW-6, MR-AP-MW-13SR, MR-AP-MW-15, and MR-AP-MW-33H. The following paragraphs provide recent details and findings related to cobalt concentrations.

Vertical delineation wells MR-AP-MW-2V, MR-AP-MW-4V, and MR-AP-MW-6V were installed to assess deeper groundwater quality. Additionally, data from compliance well MR-AP-MW-13DR can be used for vertical delineation of cobalt at well MR-AP-MW-13SR.

Well MR-AP-MW-4V has shown a cobalt concentration range between 0.002 and 0.013 mg/L with an average concentration of 0.007 mg/L. The April-May 2023 sampling event resulted in a cobalt concentration below the GWPS, and recent sampling events show a downward trend. Cobalt concentrations in both MR-AP-MW-4 and MR-AP-MW-4V were below GWPS during the April-May 2023 sampling event. Cobalt concentrations in MR-AP-MW-4 were below GWPS during the September-October 2023 sampling event. As previously discussed, vertical delineation well MR-AP-MW-4V did not produce sufficient water for sampling during the September-October 2023 sampling event.

Well MR-AP-MW-6V has been sampled 11 times and has never exceeded the GWPS for cobalt. Cobalt has been non-detect in five of these sampling events and displays an average concentration of 0.0002 mg/L. Well MR-AP-MW-6 has shown a significant decrease in cobalt concentrations since 2018 and 2019 sampling events and has been at or below GWPS concentrations during five of the most recent six sampling events increasing to slightly above GWPS during the most recent sampling events. Currently, cobalt concentrations in well MR-AP-MW-6 are not present at statistically significant levels.

MR-AP-MW-33H, located between and to the west of MR-AP-MW-4/4V and MR-AP-MW-6V, did show cobalt concentrations above the GWPS during the April-May 2023 and September-October 2023 sampling events. Cobalt concentrations at this location have been steadily decreasing since September 2021 and have fallen from 0.0123 to 0.0072 mg/L.

Cobalt concentrations in well MR-AP-MW-13SR have continued to exceed the GWPS. Cobalt concentrations and increases observed in this well appear driven by decreasing trend in pH and a general increase in DO and ORP. As previously described, these conditions serve to mobilize cobalt. It is noteworthy that well MR-AP-MW-13SR, has (1) a groundwater elevation higher than the ash pond levels, indicating upgradient water quality, and (2) lacks elevated concentrations of boron and lithium. This could support a link to a naturally occurring source of cobalt. Mobilization of cobalt in well MR-AP-MW-13SR appears related to greater meteoric influence (lower pH, higher DO) in upgradient water as closure activities continue to progress at the Site. Deeper into the Pottsville Formation, Well MR-AP-MW-13DR has been sampled seven times and has never exceeded the GWPS for cobalt. Cobalt displays a concentration range between non-detect and 0.0010 mg/L.

The cobalt exceedance in well MR-AP-MW-2 is considered vertically delineated because the attempted vertical delineation well MR-AP-MW-2V did not yield sufficient groundwater for development or sampling. As described in the lithium delineation discussion, Site geologic and hydrogeologic data are showing that the Mary Lee coal is an unlikely flow path for COI away from the ash pond. This is due to significant hydraulic separation, thickness of low permeability Pottsville separating the base of the pond from the Mary Lee, lack of apparent flow gradients away from the ash pond, and geochemical fingerprinting.

The cobalt concentration in well MR-AP-MW-15 (0.025 mg/L) exceeded GWPS for the first time during the September 2022 sampling event. During the April-May 2023 sampling event, cobalt concentrations decreased to 0.012 mg/L and increased to 0.032 mg/L during the September-October 2023. Increasing cobalt concentrations correlate with decreasing pH and increasing DO during the September-October 2023 sampling event. Historically, cobalt has been non-detect or detected only at trace concentrations in 15 of 21 sampling events. Since cobalt concentrations have only recently been observed above the GWPS, it has not been evaluated as an SSL by statistical methods. Cobalt concentrations and other indicators will be monitored over subsequent events to determine if further delineation and assessment is needed in this area of the Site.

Laterally, cobalt is to delineated (1) to the west by MR-AP-MW-17H, MR-AP-MW-34H, MR-AP-MW-19HA, MR-AP-MW-20H, MR-AP-MW-20HS, MR-AP-MW-32H, MR-AP-MW-7SR, and MR-AP-MW-

7DR, (2) to the north by MR-AP-MW-35H, and (3) to the east by MR-AP-MW-37H, MR-AP-MW-27HR, and MR-AP-MW-28H. The cobalt exceedance at delineation well MR-AP-MW-33H is delineated to the south by MR-AP-MW-5, southwest by well MR-AP-MW-19HA, and northeast by well MR-AP-MW-4V.

Molybdenum Delineation

Molybdenum was observed as an SSL for the first time during the first semi-annual monitoring period of 2022 in wells MR-AP-MW-10 and MR-AP-MW-12. Existing delineation wells downgradient to the east and south of these locations have not exhibited molybdenum concentrations over the GWPS. Monitor wells MR-AP-MW-5 and MR-AP-MW-36HR exhibited molybdenum concentrations above GWPS for the first time during the September-October 2023 sampling event. Delineation and assessment may be proposed following the conclusion of the geogenic source evaluation study. Molybdenum concentrations are presented on **Figure 12A, Molybdenum Isoconcentration Map (April to May 2023)**, and **Figure 12B, Molybdenum Isoconcentration Map (September to October 2023)**.

6.4 STATUS OF DELINEATION

A detailed review of historical geochemical and Site data conducted during the first and second 2023 semi-annual monitoring periods provided strong indications of alternative sources of COI and highlighted the need for additional background locations to capture and quantify lithium concentrations closer to the ash pond area.

Prior to completing additional assessment and delineation activities, the following tasks are recommended to better inform decision making on these types of activities:

- 1) Installation and sampling of additional background wells in the vicinity of the plant proper.
- 2) Perform geogenic source study to further evaluate natural or alternative sources of COI.
- 3) Complete additional pore-water and source characterization sampling.

The geogenic study will be an extensive and technically robust investigation into sources of COI. This study will include total COI concentrations in geologic materials along groundwater flow paths, COI associations with minerals and mineralogical assemblages, and the ability of COI to mobilize into groundwater. This study will continue the evaluation of geochemistry including geochemical facies comparisons and specialized isotopes. The study will look at groundwater elevations, stratigraphy, and flow paths to further evaluate hydraulic connections of deeper flow systems (Mary Lee and Gillespy-Lower Discrete Zone). In general, the study will closely resemble the methods described below.

Upon completion of these tasks, a formal recommendation or plan of action will be submitted to ADEM. This recommendation will address natural sources of COI as well as evaluate the ash pond as a source. This comparison will highlight potential data gaps, assessment needs, and determine if additional delineation is needed and to what extent.

6.5 GROUNDWATER REMEDY AND CORRECTIVE ACTION

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

Submittal	Submittal Date	Purpose
Assessment of Corrective Measures	06/2019	Initial evaluation of the feasibility, performance, and implementation of known and emerging groundwater remediation technologies against Site conditions and factors.
Groundwater Remedy Selection Report	11/2021	Formal selection and detailed description of groundwater remedies selected for implementation at the Site.
Corrective Action Groundwater Monitoring Program	02/2022	Plan document to describe process and program for implementation and monitoring of groundwater remedies selected at the Site.

6.5.1 Groundwater Remedy Selection

The Groundwater Remedy Selection Report described the selected remedies for groundwater corrective actions at the Site:

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

Additionally, it was determined that geochemical manipulation should be included as an alternate or companion remedy selection with permeation grouting. Geochemical manipulation using injection removes COI from groundwater and immobilizes them in situ through the creation of solid precipitates formed from injection of treatment solutions. A Laboratory Treatability Study Results report for the Plant Miller Ash Pond is included as **Appendix E**.

Closure of the CCR Unit, including dewatering, consolidation, and capping, will greatly reduce or eliminate source contributions to groundwater. Permeation grouting was selected because, as a corollary to barrier walls, it impedes groundwater flow and helps prevent the migration of COI away from the source area.

Permeation grouting can be viewed as a complementary method to MNA, where either the sealing of groundwater flow or the slowing of the flow path away from the source area provides longer residence time for MNA processes to reduce COI concentrations. MNA was selected based on the evidence gathered during initial investigations, which highlighted that these processes are already occurring.

6.5.2 Corrective Action – Groundwater Monitoring Program

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

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

Stage 1

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

Selected Remedy	Implementation Task(s)
Monitored Natural Attenuation	<ol style="list-style-type: none">1. Implementation of expanded MNA sampling parameters.2. Further assessment of MNA monitoring network.

Selected Remedy	Implementation Task(s)
Permeation Grouting/Geochemical Injection Program	<ol style="list-style-type: none"> 1. Work Scope development and field program for the detailed characterization of fracture flow characteristics and data needs supporting a permeation grouting pilot. 2. Implementation of Permeation Grouting and/or Geochemical Injection Pilot Program using data collected from detailed characterization.
Source Control/Closure Activities	<ol style="list-style-type: none"> 1. Evaluation of geochemical changes in groundwater with respect to transient closure activities such as excavation and dewatering. 2. Implementation of field data collection instruments/telemetry within key monitoring wells to further understand the nature of geochemical changes over time and with respect to closure activities and MNA/geochemical modelling.

Implementation of Monitored Natural Attenuation

MNA sampling parameters were added to the sampling plans and analyzed in the laboratory during the April-May and September-October 2023 sampling events (**Tables 6 and 7**). These parameters, in addition to field parameters, Appendix III parameters, and Appendix IV parameters, are used to study the processes that govern or facilitate MNA and changes in geochemical conditions. Parameters will be included in the Site geochemical model. Enhanced MNA or geochemical manipulation is currently being evaluated for areas of the Site.

Based on continued data evaluation for delineation and assessment of potential geogenic sources of COI, additional assessment wells may be recommended as detailed in **Section 6.4**.

Source Control and Closure Activities

The primary tasks and objectives at the onset of Stage 1 include: (1) monitoring and reviewing for changes in geochemical conditions that would invoke an adaptive trigger, (2) studying transient changes in groundwater quality that could be the result of physical closure activities, and (3) determination of primary mechanisms and geochemical relationships at play in changing geochemical conditions. The understanding of mechanisms and relationships leading to geochemical changes in groundwater provides opportunity to

further understand natural MNA processes at the Site and document the benefits and impacts of source control as closure progresses.

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

- Concentration Trends.
 - By Analyte.
 - By Locations.
 - In Aggregate.
- Geochemical Correlations.
- Concentration Trends and Geochemical Correlations cross-referenced to by recent or active ash pond closure activities.

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

Aqua TROLL instrumentation has been installed at the following monitoring locations:

- MR-AP-MW-1
- MR-AP-MW-3S
- MR-AP-MW-3D
- MR-AP-MW-6
- MR-AP-MW-6V
- MR-AP-MW-12
- MR-AP-MW-13SR
- MR-AP-MW-16
- MR-AP-MW-33H.

Permeation Grouting and/or Geochemical Injection Program

An Implementation and Data Requirements Pre-Design Investigation Plan for a permeation grouting and/or geochemical injection pilot program is being drafted to outline means and methods for the complete geologic and hydrogeologic characterization of the area of the Site selected for the pilot study. This

document provides a plan for the detailed characterization of fracture flow through the Pottsville Formation, including standards for core logging, downhole geophysical methods, hydrogeophysical methods, and aquifer performance testing. This plan will be executed in the field and data analyzed to complete the initial study or foundation phase of the Permeation Grouting/Geochemical Injection Pilot Program.

6.5.3 Pre-Design Investigation

The objective of the pre-design investigation (PDI) is to provide data specific to the potential remediation areas (PRA) to enable predictive groundwater modeling and to inform the design of a permeation grouting and/or geochemical injection pilot test. The determination of the PRA of interest was based in part on results of a surface geophysics survey (electrical resistivity imaging (ERI) and the self-potential (SP) method) that was performed in January 2024. Additionally, each PRA was assessed based on the nature and extent of Site COI concentrations, spatial distribution, drilling accessibility, etc. The most advantageous locations for this investigation include: (1) MR-AP-MW-3D and (2) MR-AP-MW-16. The investigation will further define the understanding of certain subsurface lithologic/hydrogeologic data to include:

- Bedrock fracture data
 - Fracture orientations
 - Fracture apertures and spacings
- Hydraulic data
 - Bulk hydraulic conductivity
 - Hydraulic responses between wells
- Groundwater transport continuity between wells
 - Proof of flow path continuity between and among wells
- Aquifer characteristics
 - Mineralogy and geochemical properties of fracture surfaces
 - Mineralogy and geochemical and physical properties of unfractured rock matrix
- Groundwater characteristics
 - COI concentrations
 - Groundwater geochemical properties

The overall scope of work (SOW) developed for this PDI proposed the following tasks:

- Update the hydrogeologic conceptual site model (HCSM).

- Perform a surface geophysical survey consisting of ERI and SP methods for identifying the most appropriate location for advancing borings.
- Monitor fluctuations in groundwater elevations.
- Advance an estimated two exploratory boreholes to targeted depths (with additional borings to be performed, if appropriate).
- Collect detailed borehole data, including the following:
 - Core descriptions and sample collection.
 - Packer testing (hydraulic testing and groundwater sampling via extraction of groundwater from packer-isolated bedrock intervals).
 - Downhole geophysical logging, to include conventional tools and potentially, an optical/acoustic borehole televiewer, a heat pulse flowmeter (HPFM), cross-borehole resistivity, and nuclear magnetic resonance (NMR; only in existing monitoring wells).
 - Lugeon hydraulic conductivity testing.
- Determine and implement disposition of each borehole – for example, monitoring well, tracer injection/extraction well, or temporary securement of open borehole at ground surface to allow for future decisions on permanent borehole disposition.
- Evaluate the need for tracer testing and implement as warranted.
- Evaluate the need for permeation grout test borings and implement as warranted.
- Evaluate the need for geochemical injection/manipulation test borings and implement as warranted.

Following complete evaluation of Site data collected during the PDI, a report summarizing the findings and recommended future remedial techniques for the Site will be prepared and submitted.

7.0 SUMMARY AND CONCLUSIONS

The first 2023 semi-annual monitoring activities took place from April 18 to May 3, 2023, and the second 2023 semi-annual monitoring activities took place from September 25 to October 12, 2023. Statistical evaluations of the first and second 2023 semi-annual monitoring data identified SSL of Appendix IV constituents above the GWPS. To address previously identified SSL, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on November 30, 2021, and a Corrective Action Groundwater Monitoring Program plan on February 28, 2022. Focused efforts at the Site are now shifted towards planning and implementation of the PDI, pilot testing, and selected remedies along with continued evaluation of assessment and compliance data.

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

- Conduct the PDI field work to remediate groundwater at two potential remediation areas (PRA) of the Site, to provide data for predictive groundwater modeling and to inform the design of pilot tests beginning in February 2024. The scope of work developed for the PDI includes the following:
 - Update the current Site hydrogeologic conceptual site model (HCSM).
 - Perform surface geophysical survey consisting of Electrical Resistivity Imaging (ERI) and Electrical Self-Potential (SP) methods for identifying most advantageous locations for borings.
 - Advance two (or more) exploratory borings and collect detailed subsurface data to include lithologic descriptions; soil, groundwater, and rock core sample collection; packer testing; downhole geophysical logging; and lugeon hydraulic conductivity testing.
 - Monitor groundwater elevation response and fluctuations.
 - Determine and implement disposition of each borehole – for example, monitoring well, tracer injection/extraction well, or temporary securement of open borehole at ground surface – to allow for future decisions on permanent borehole disposition.
 - Evaluate the need for permeation grouting and/or geochemical injection test borings and implement as warranted.
- Continue with implementation, evaluation, and reporting of the PDI efforts as part of the Permeation Grouting/Geochemical Injection Pilot Program for the remediation of arsenic, lithium, and

molybdenum. Following complete evaluation of Site data, a report summarizing the findings and recommended future remedial techniques for the Site will be prepared.

- Evaluation of recently collected MNA parameter data.
- Evaluation of molybdenum, south of the Ash Pond, in context of planned Remedial Action strategies.
- Conduct the first semi-annual groundwater monitoring event and submit the Annual Groundwater Monitoring and Corrective Action Report summarizing the findings to ADEM by July 31, 2024.

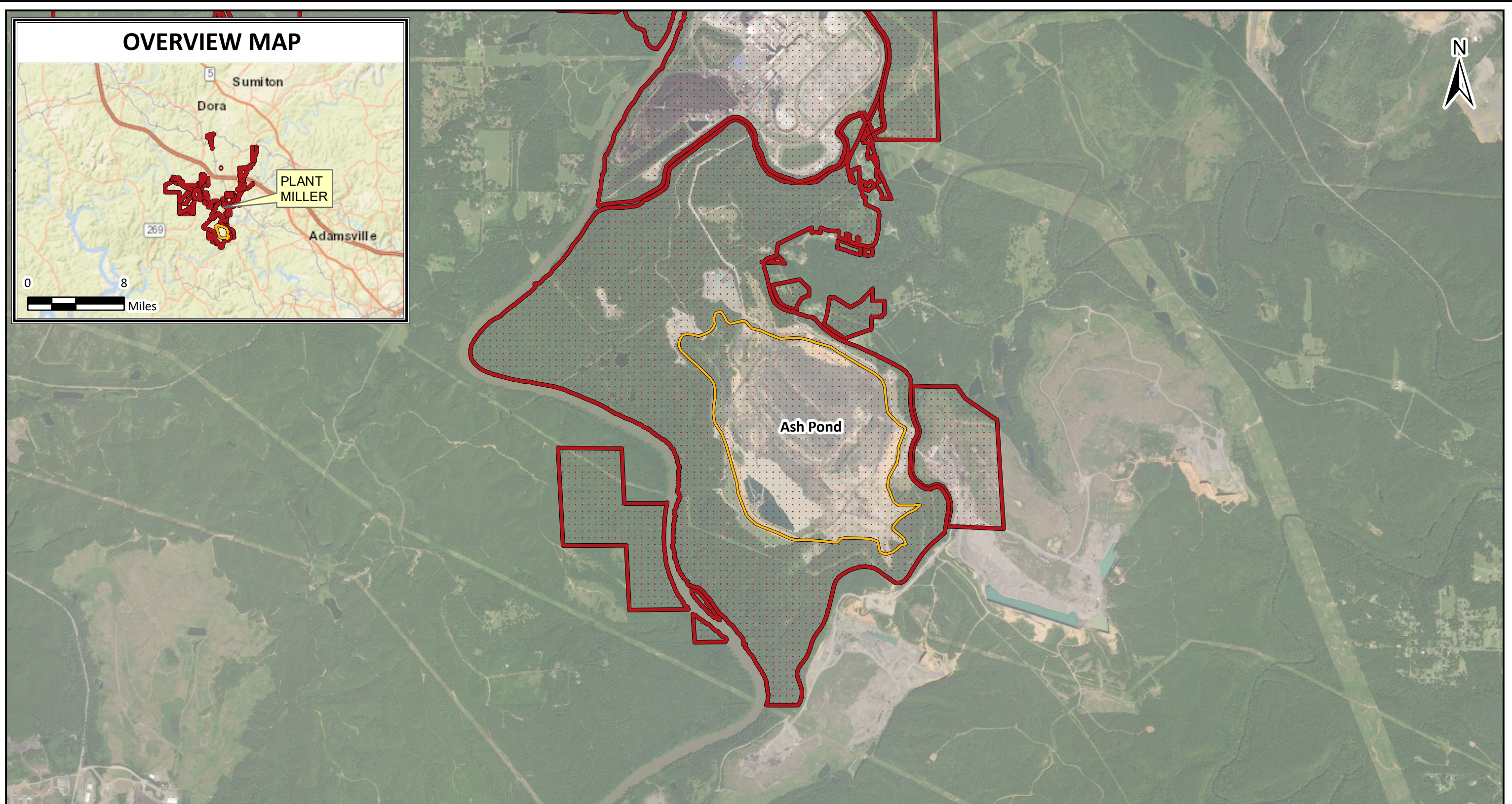
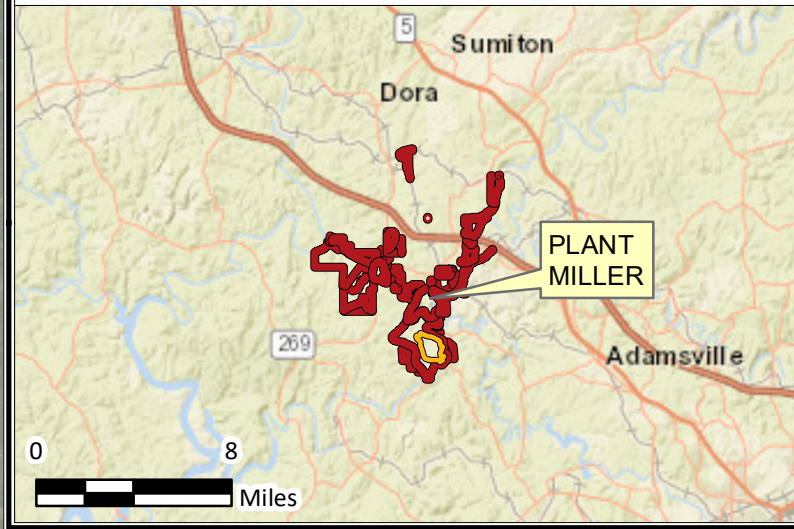
8.0 REFERENCES

- Alabama Department of Environmental Management (ADEM), 2012, Solid Waste Program, Division 13, ADEM Admin. Code r. 335-13-4.
- Alabama Power Company (APC) Environmental Affairs (EA) Water and Field Group (WFG), 2021, Technical Standard Operating Procedure (TSOP).
- Anchor QEA, December 2020, Semi-Annual Remedy Selection and Design Progress Report Plant Miller Ash Pond.
- ASTM Standard D5092, 2004(2010)e1, Standard Practice for Design and Installation of Groundwater Monitoring Wells, ASTM International, West Conshohocken, PA, DOI 10.1520/D5092-04R10E01, www.astm.org.
- Bailey, A.M. and Roberts, H.H., 1998, Minor and trace element compositions of carbonates formed during burial diagenesis of deltaic sediments, *Journal of Sedimentary Research*, v. 68, p. 185-97.
- Bragg, L.J., Oman, J.K., Tewalt, S.J., Oman, C.L., Rega, N.H., Washington, P.M., and Finkelman, R.B., 1997, U.S. Geological Survey Coal Quality (COALQUAL) database; version 2.0, U.S.
- Diehl, S.F., Goldhaber, M.B., and Hatch, J.R., 2004, Modes of occurrence of mercury and other trace-elements in coals from the warrior field, Black Warrior Basin, Northwestern Alabama, *International Journal of Coal Geology*, v. 59, p. 193-208
- Diehl, S.F., Goldhaber, M.B., Koenig, A.E., Tuttle, M.L.W., and Ruppert, L.F. 2005, Concentrations of Arsenic, Selenium, and other Trace Elements in Pyrite in Appalachian Coals of Alabama and Kentucky, 2005 National Meeting of the American Society of Mining and Reclamation, June 19-23, p. 283-298.
- Geological Survey of Alabama (GSA), 2010b, Digital Geologic Map of Alabama, URL: <http://www.gsa.state.al.us>, accessed November, 2010.
- Goldhaber, M.B., Lee, R.C., Hatch, J.R., Pashin, J.C., and Treworgy, J., 2000, Distribution of a suite of elements including arsenic and mercury in Alabama coal, U.S. Geological Survey Miscellaneous Field Study Map MF-223
- Goldhaber, M.B., Lee, R.C., Hatch, J.R., Pashin, J.C., and Treworgy, J., 2002, The role of large-scale fluid flow in subsurface arsenic enrichment, In: Welch, A., Stollenwerk, K (Eds.), *Arsenic in Ground Water: Occurrence and Geochemistry*, v. 5, p. 127-176
- Jennings, S.P., and Cook, M.R., 2010, A Report to the Hanceville Water Works and Sewer Board, Open File Report 1001
- Kolker, A., and Nordstrom, D.K. 1997, Occurrence and Micro-Distribution of Arsenic in Pyrite, U.S. Geological Survey



- O'Rear, D.M., Wahl, K.D., and Jefferson, P.O., 1972, Water availability and geology of Walker County, Alabama: Geological Survey of Alabama Map 120, 21p.
- Palmer, C.A., Oman, C.L., Park, A.J., and Luppens, J.A., 2015, The U.S. Geological Survey coal quality (COALQUAL) database version 3.0: U.S. Geological Survey Data Series 975, 43 p.with appendixes, <http://dx.doi.org/10.3133/ds975>.
- Pashin, J.C., and Raymond, D.E., 2004, Glacial-eustatic control of coalbed methane reservoir distribution (Pottsville Formation; Lower Pennsylvanian) in the Black Warrior Basin of Alabama: Tuscaloosa,
- Pashin, J.C., 2007, Hydrodynamics of Coalbed Methane Reservoirs in the Black Warrior Basin: Key to Understanding Reservoir Performance and Environmental Issues, Applied Geochemistry, v. 22, I. 10, p. 2257-2272
- Raymond, D.E., Osborne, W.E., Copeland, C.W. Jr, and Neathery, T.L., 1988, Alabama Stratigraphy: Alabama Geological Survey Circular, v. 140, p. 1-97
- Sapp, C.D., and Emplaincourt, J., 1975, Physiographic regions of Alabama, Special Map 168, Geological Survey of Alabama
- Stricklin, V.E., 1989, Geohydrology and Susceptibility of Major Aquifers to Surface Contamination in Alabama: Area 3, U.S. Geological Survey, Water-Resources Investigations Report 88-4120
- U.S. Environmental Protection Agency (EPA), 2004, Evaluation of Sampling and Field-Filtration Methods for the Analysis of Trace Metals In Groundwater Project Summary, EPA/600/SR-94/119
- United States Geological Survey (USGS), 1982 (Photo revised 1983), Sylvan Springs Quadrangle, 7.5 Minute Series Topographic Map
- Ward II, W.E., Barnett, R.L., Rheams, L.J., 1989, Coal Resources of Walker County, Alabama, Geological Survey of Alabama, Special Map 205

Figures

OVERVIEW MAP



LEGEND

-  Ash Pond Boundary
-  Property Boundary (Approximate)



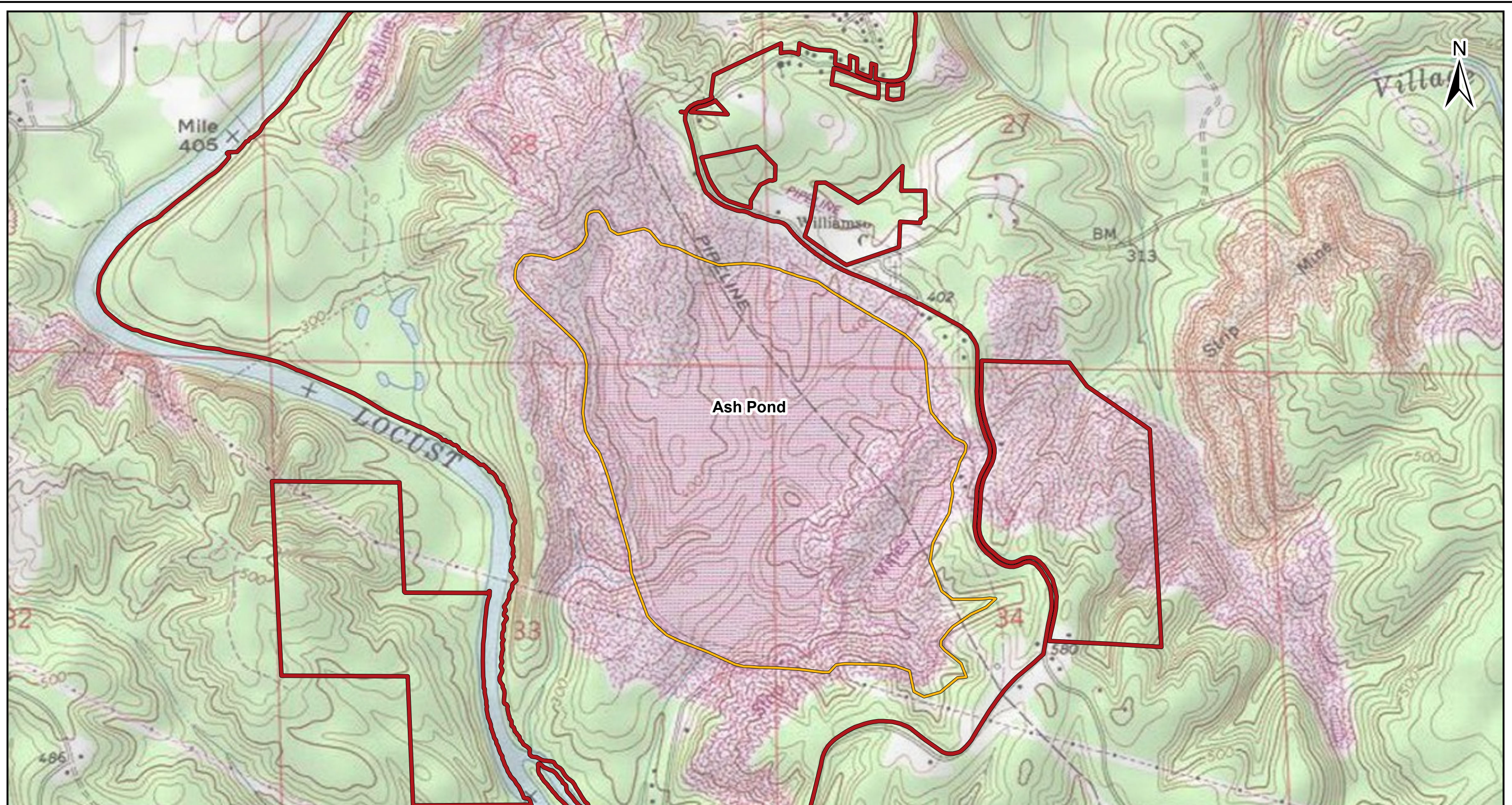
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Base Map: Maxar Vivid Advanced, 1/06/2023

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DATE	12/04/2023
DRAWN BY	KAR
CHECKED BY	ACP

DRAWING TITLE:
**SITE LOCATION MAP
PLANT MILLER ASH POND**

FIGURE NO.
FIGURE 1





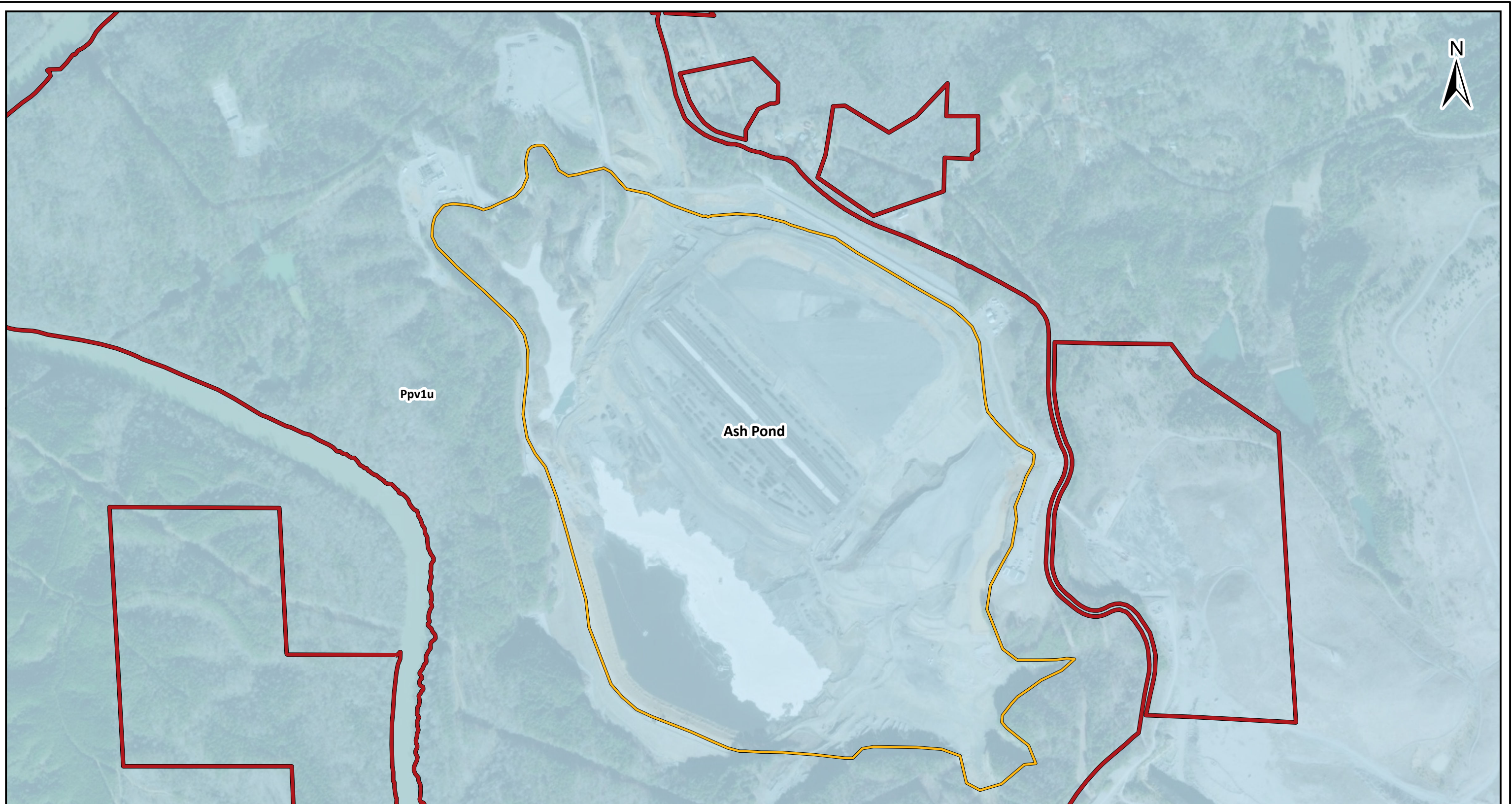
LEGEND

- Property Boundary (Approximate)
- Ash Pond Boundary



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
 Base Map: Sylvan Springs, Alabama 1971 (Photorevised 1982) US
 Geological Survey 7.5' Topographic Quadrangle.

SCALE	1:12,000	DRAWING TITLE: SITE TOPOGRAPHIC MAP PLANT MILLER ASH POND
DATE	12/04/2023	FIGURE NO. FIGURE 2
DRAWN BY	KAR	Southern Company
CHECKED BY	ACP	

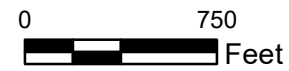


LEGEND

- Ash Pond Boundary
- Property Boundary (Approximate)

Geologic Units

- Pottsville Formation (upper part), Appalachian Plateaus (Ppv1u)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
 Base Map: Maxar Vivid Advanced, 1/06/2023

SCALE 1:9,000

DATE 12/04/2023

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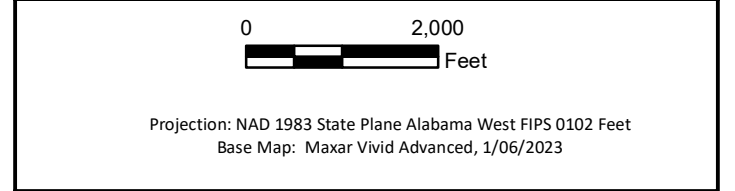
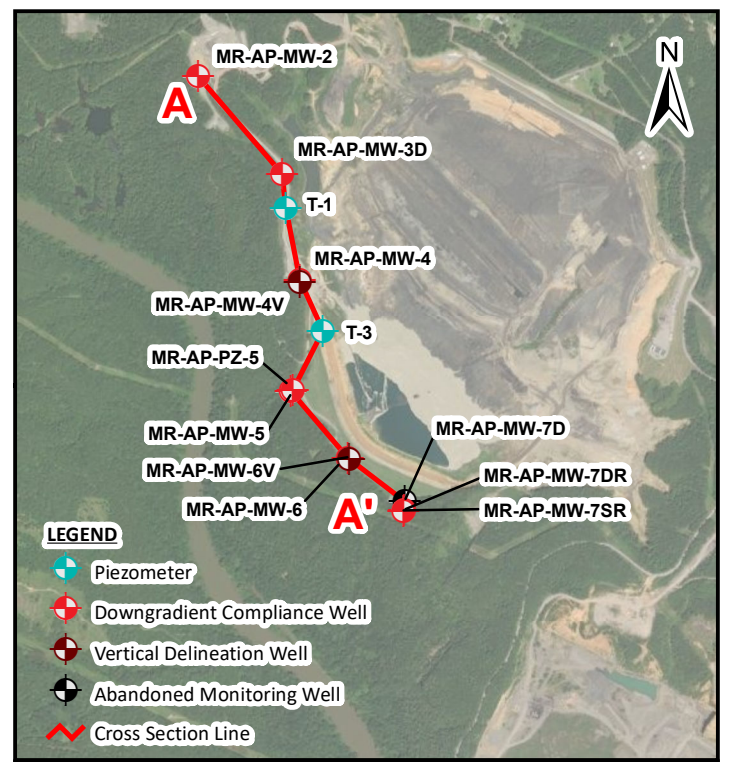
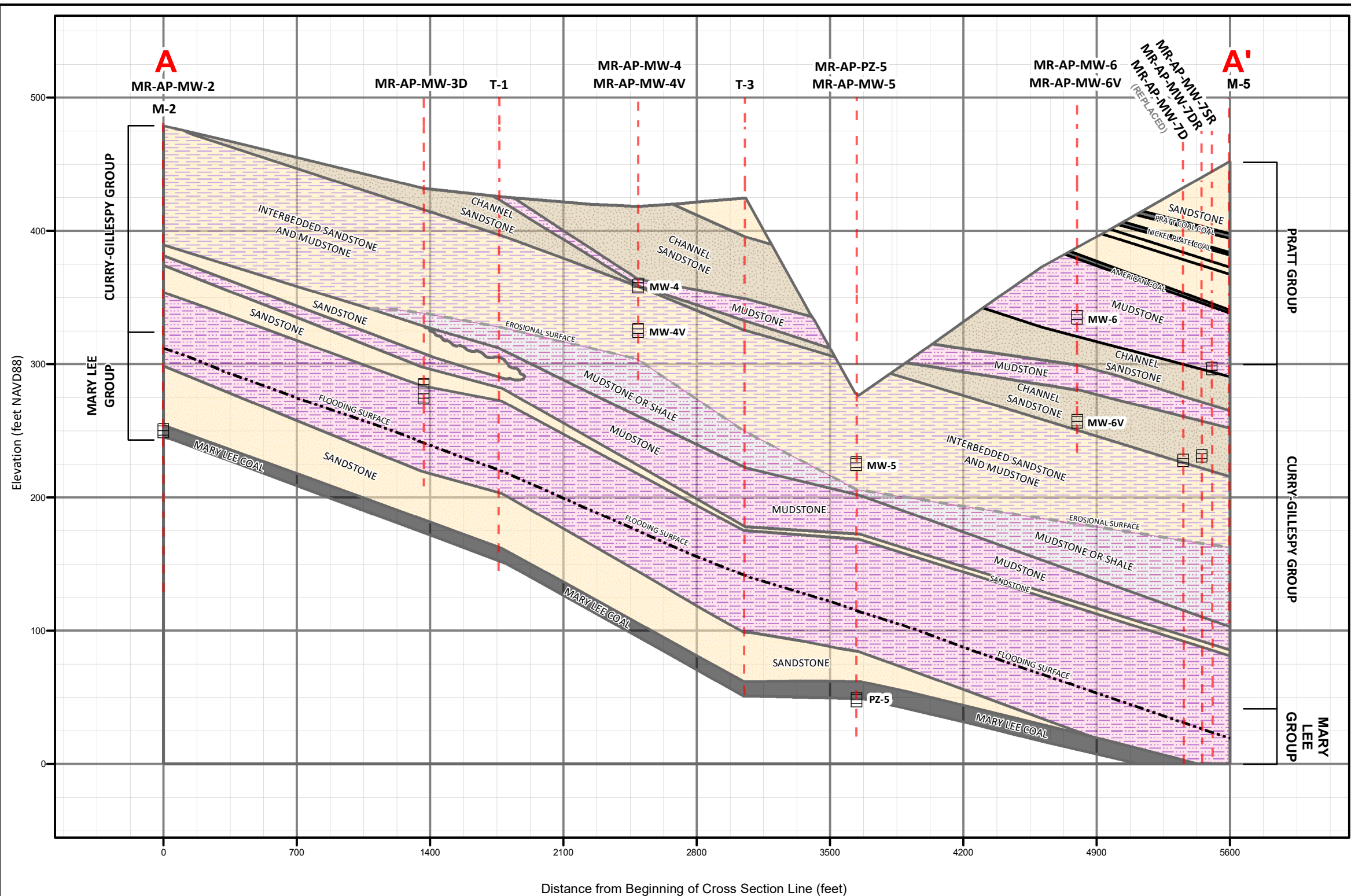
DRAWING TITLE:

**SITE GEOLOGIC MAP
 PLANT MILLER ASH POND**

FIGURE NO.

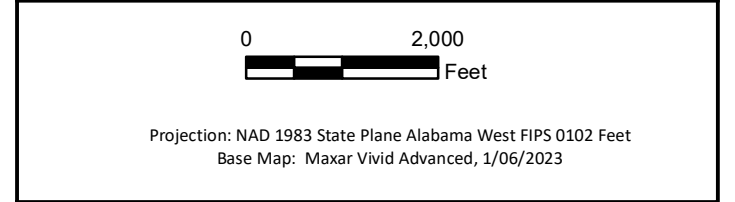
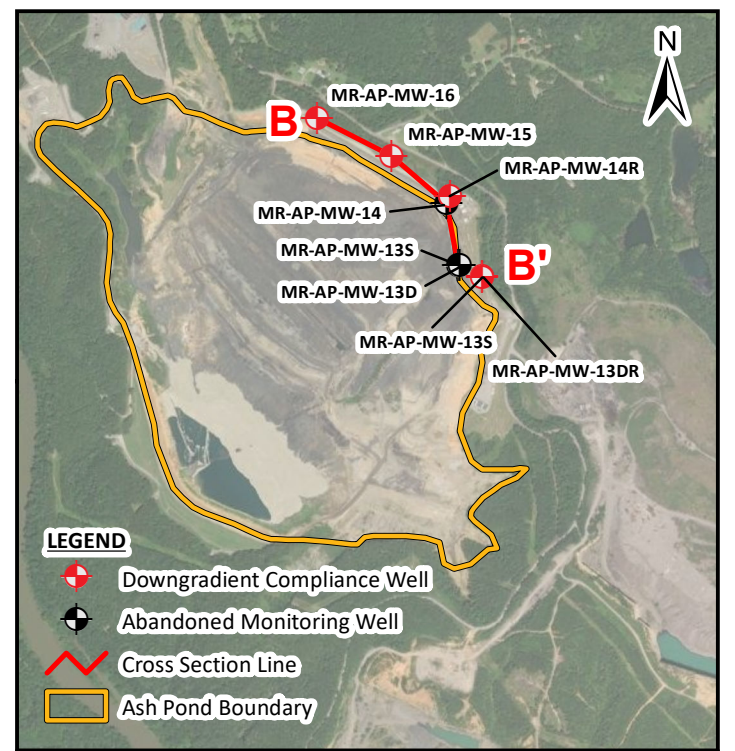
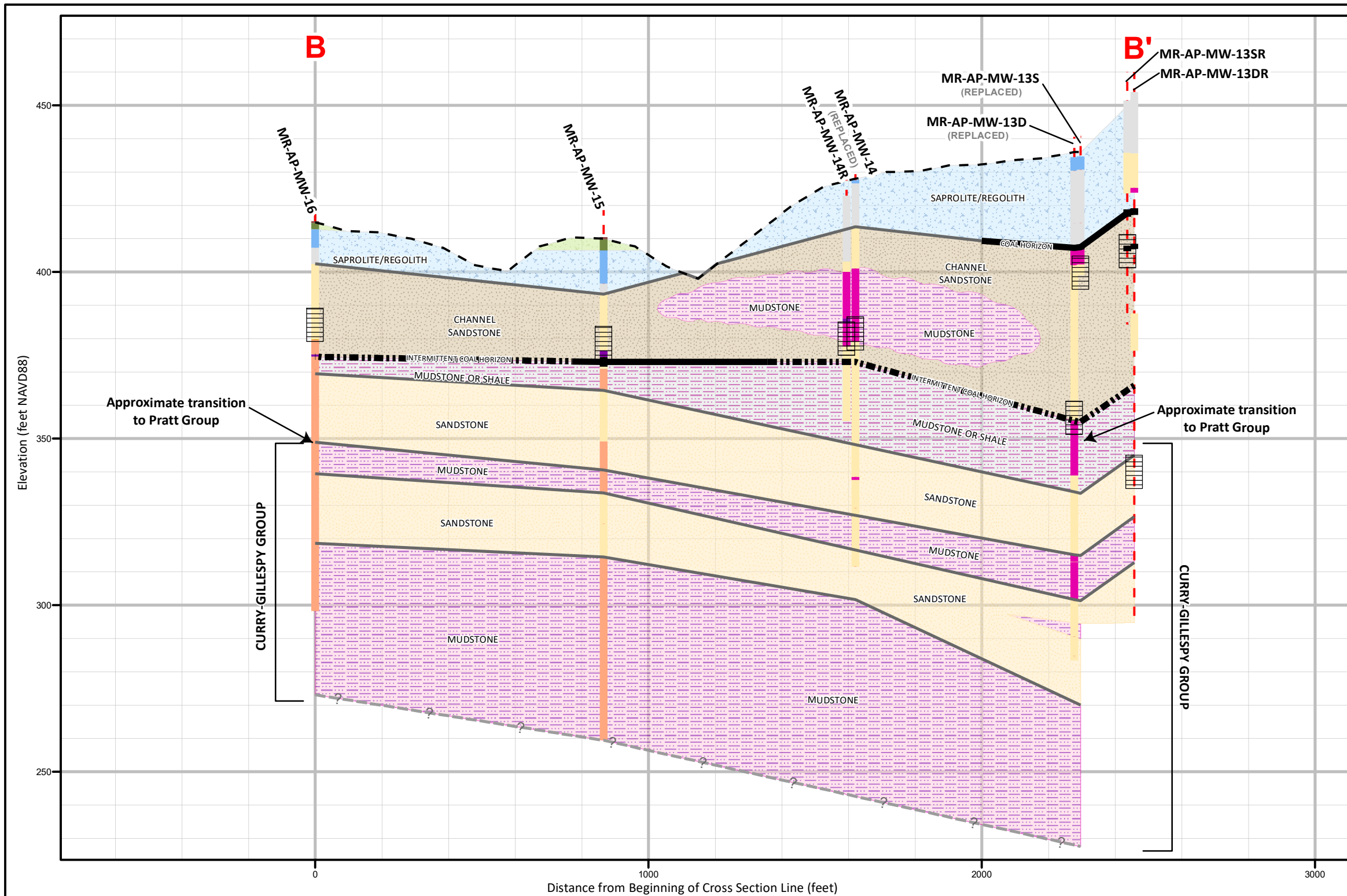
FIGURE 3





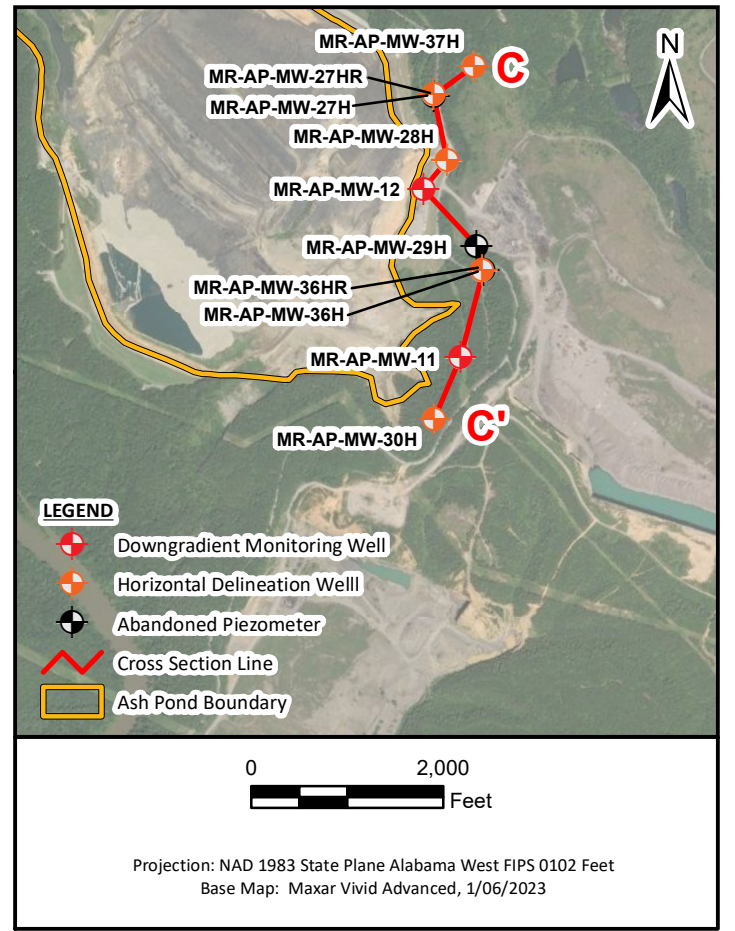
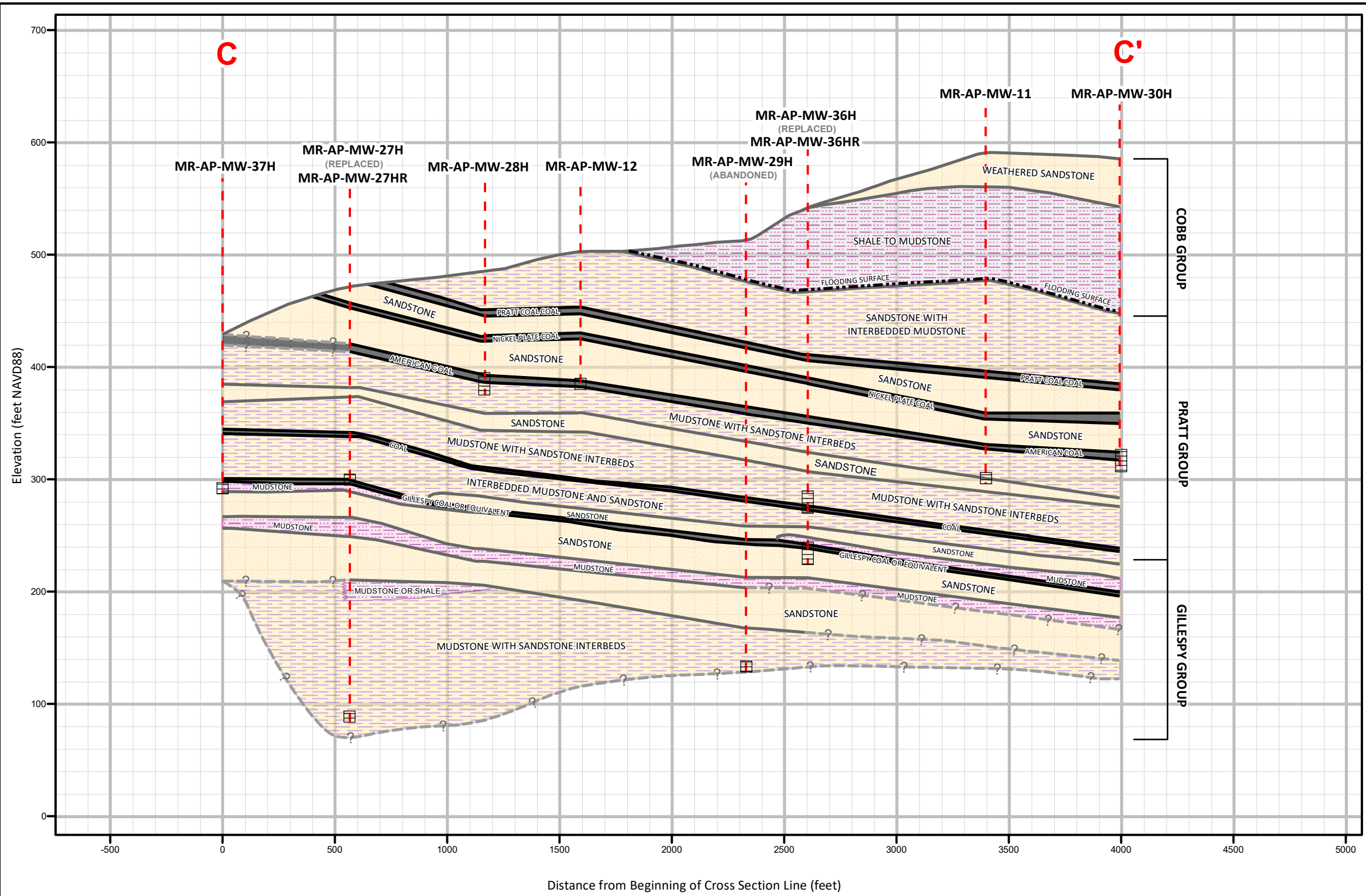
Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Pratt Group Strata are projected onto this cross section.
 3. NAVD88 indicates North American Vertical Datum of 1988.

LEGEND Monitoring Well Location Screen Interval Strata Boundary Flooding Surface Erosional Surface Geologic Units Mudstone or Shale Mudstone Interbedded Mudstone and Sandstone Channel Sandstone Sandstone Coal	SCALE AS SHOWN	DRAWING TITLE GEOLOGIC CROSS SECTION A - A' PLANT MILLER ASH POND	
	DATE 12/05/2023	FIGURE NO FIGURE 4A	
	DRAWN BY KAR		
	CHECKED BY ACP		



Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Source of ground surface elevation data: Lidar
 3. NAVD88 indicates North American Vertical Datum of 1988.

LEGEND		Borehole Descriptions		Geologic Units		SCALE	DRAWING TITLE	
— · — · —	Ground Surface Elevation	■	Coal	■	Mudstone	AS SHOWN	GEOLOGIC CROSS SECTION B - B' PLANT MILLER ASH POND	
▨	Screen Interval	■	Organic Silt	■	Shale	DATE		
— · — · —	Inferred Strata Boundary	■	Data unavailable	■	Sandstone	12/05/2023	FIGURE 4B	
— · — · —	Strata Boundary	■	Saprolite/Regolith	■	Interbedded Mudstone and Sandstone	DRAWN BY		Southern Company
■	Intermittent Coal	■	Clayey Silt	■	Sandstone with Thin Coal Beds	KAR		
■	Coal	■	Sand	■	Coal	CHECKED BY		
		■	Gravel and Sand	■	Coal lense	ACP		



Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Approximate Groundwater Elevation data are reported using North American Vertical Datum of 1988 (NAVD88).

LEGEND

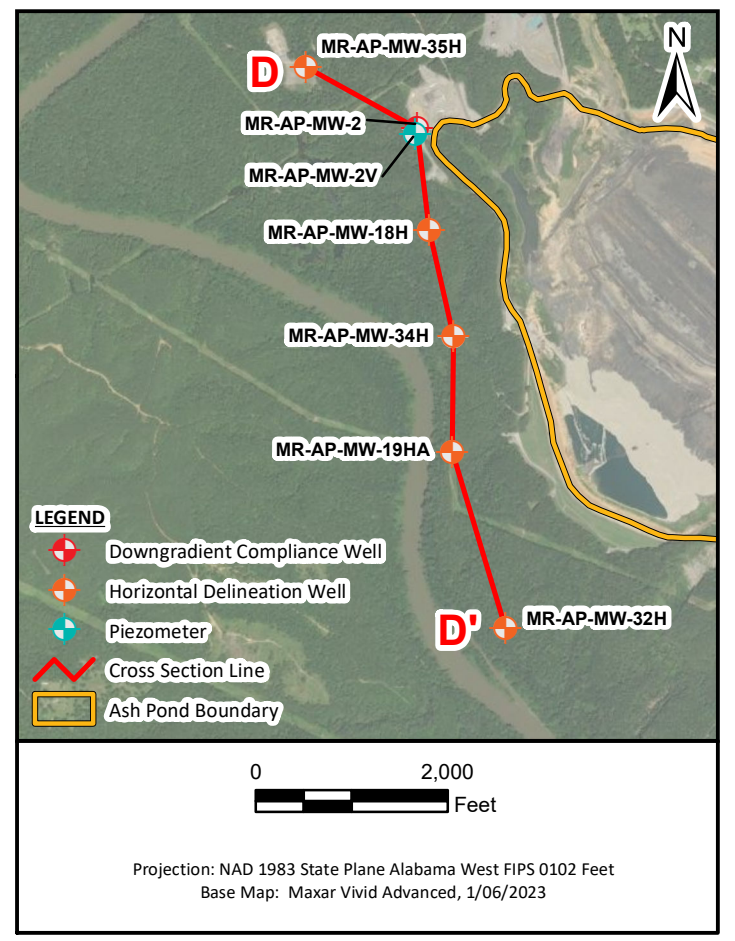
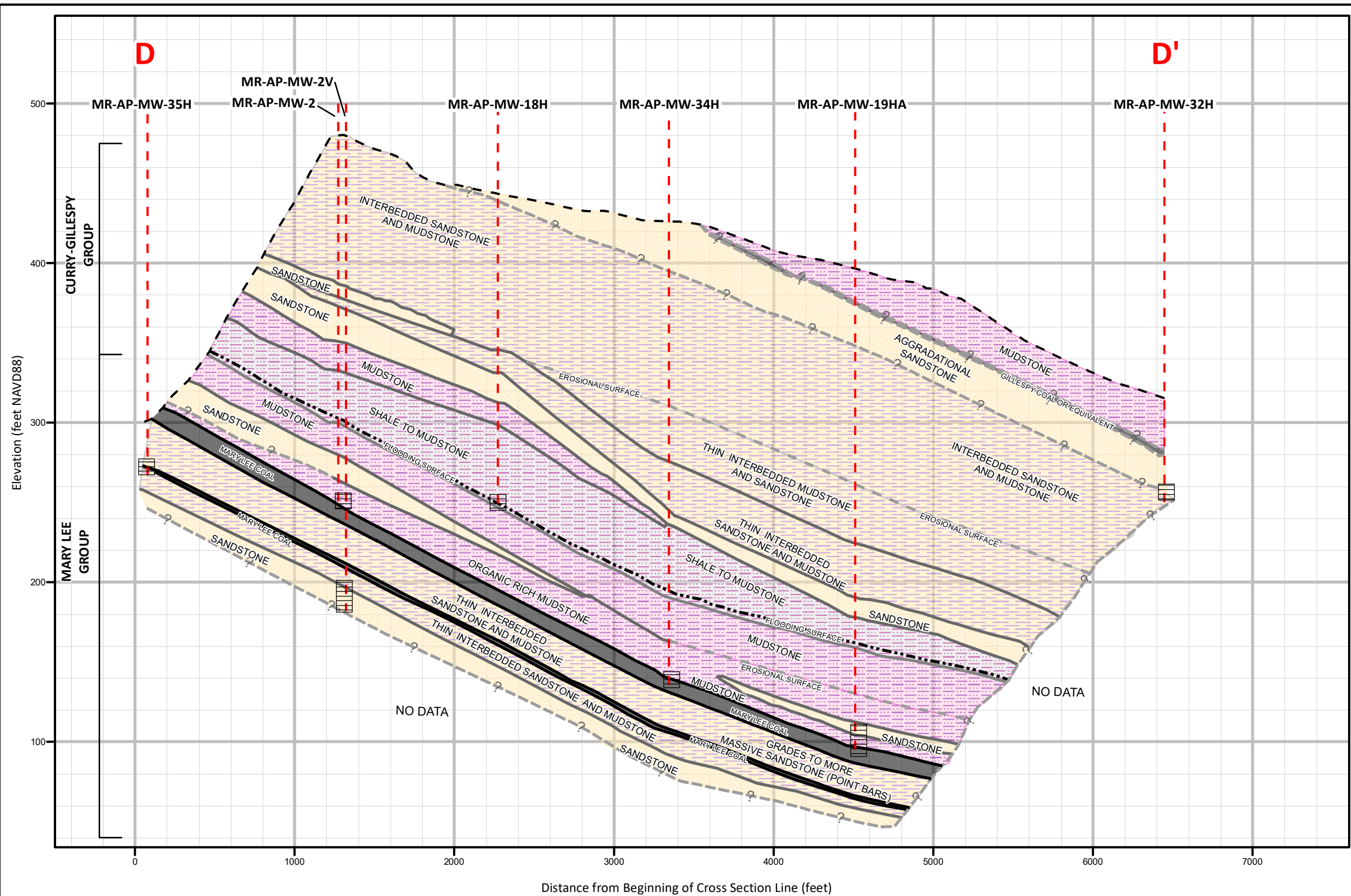
	Screen Interval
	Monitoring Well Location
	Strata Boundary
	Flooding Surface
	Inferred Strata Boundary
	Coal

Geologic Units

	Mudstone or Shale
	Mudstone
	Interbedded Mudstone and Sandstone
	Sandstone
	Coal

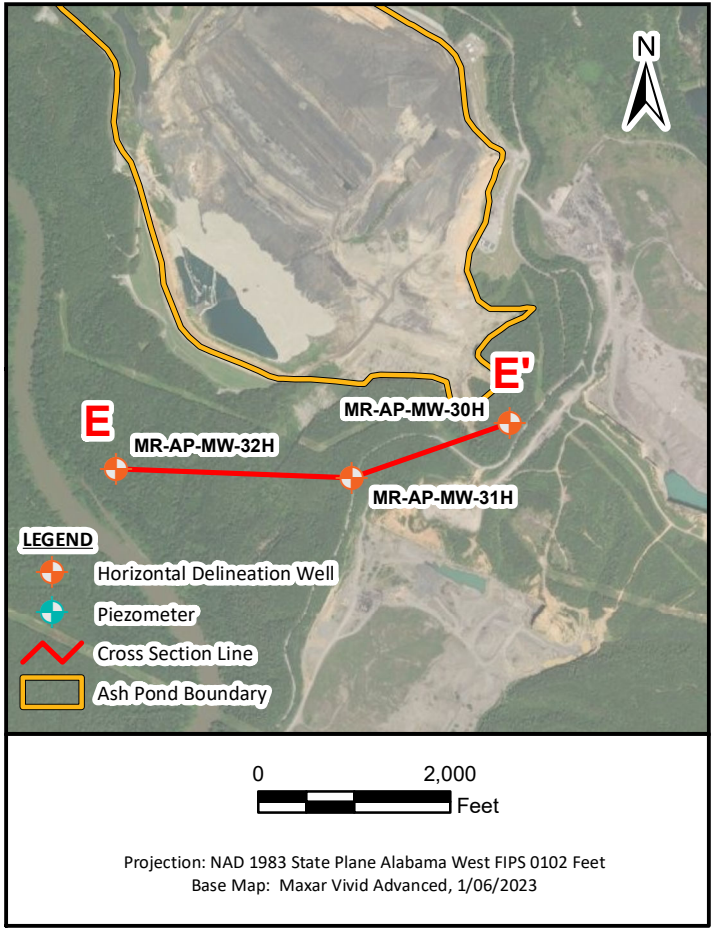
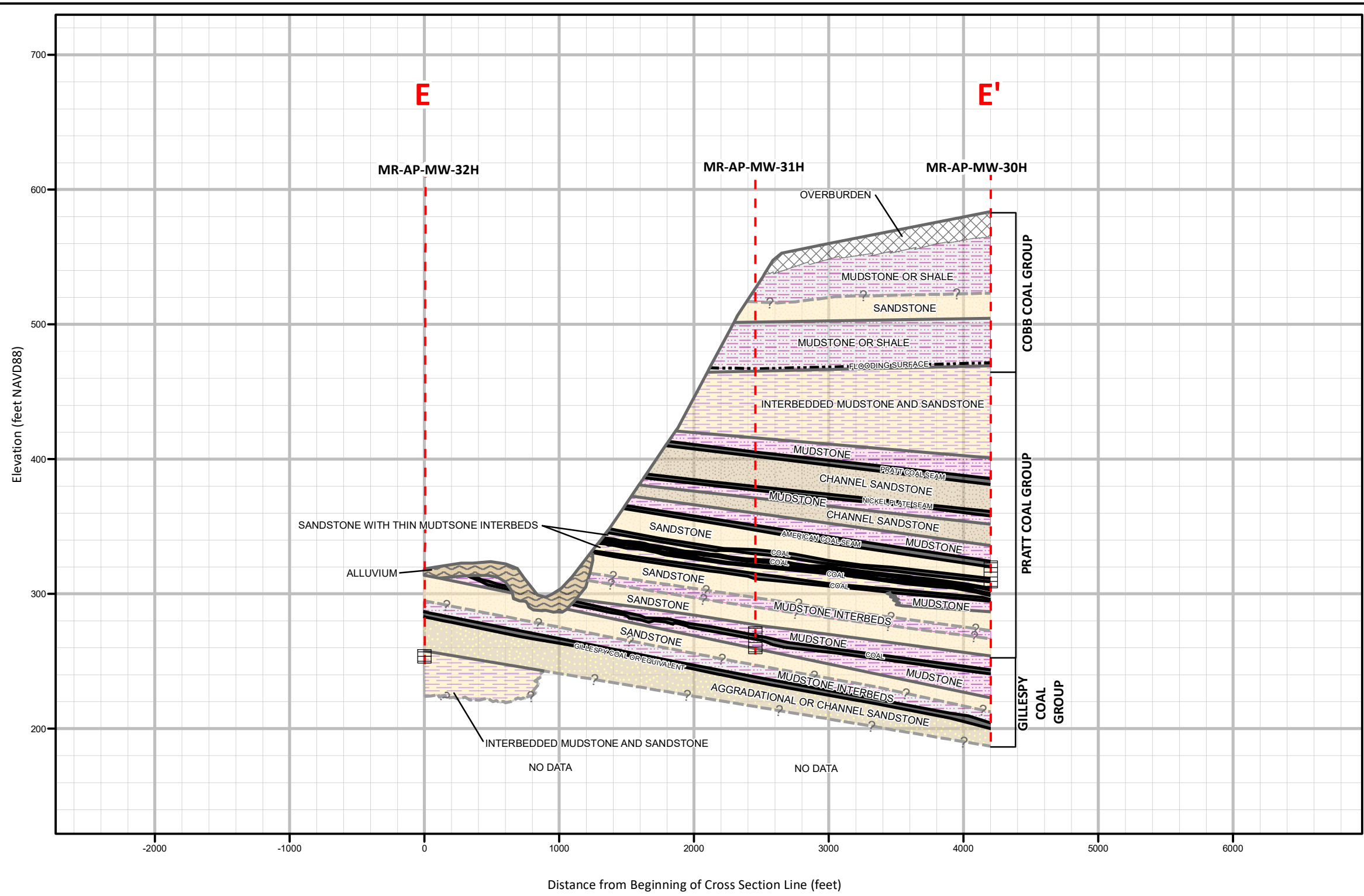
SCALE	AS SHOWN
DATE	12/05/2023
DRAWN BY	KAR
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DRAWING TITLE	
GEOLOGIC CROSS SECTION C - C' PLANT MILLER ASH POND	
FIGURE NO	FIGURE 4C
Southern Company	



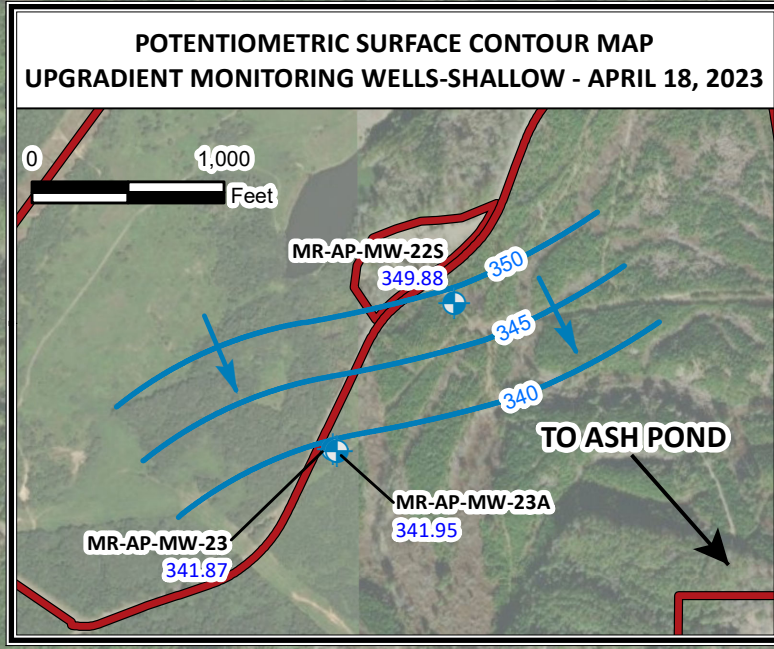
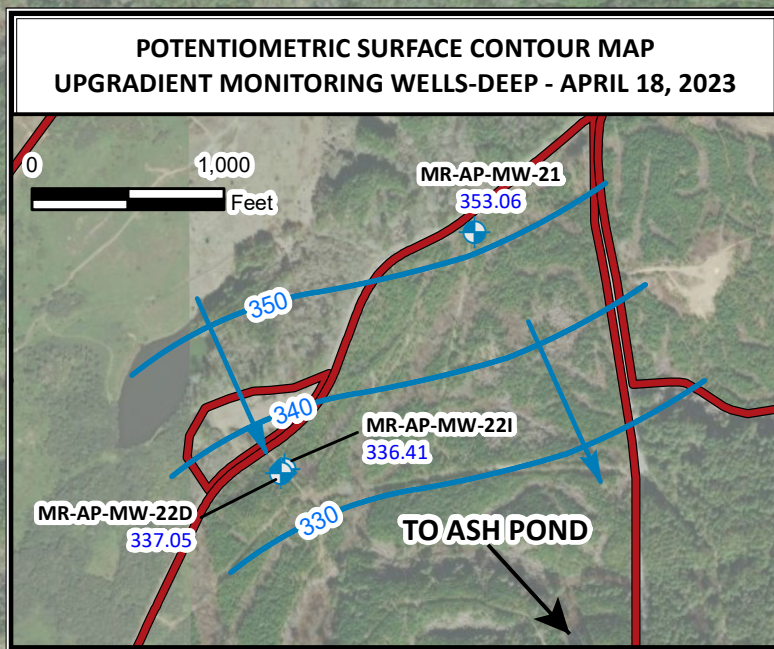
Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. NAVD88 indicates North American Vertical Datum of 1988.

LEGEND 	Geologic Units 		SCALE AS SHOWN	DRAWING TITLE GEOLOGIC CROSS SECTION D - D' PLANT MILLER ASH POND	
			DATE 12/05/2023		
			DRAWN BY KAR	FIGURE NO FIGURE 4D	
			CHECKED BY ACP		



Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Approximately 260 feet down to Mary Lee

LEGEND 	Geological Units Alluvium Overburden Mudstone or Shale Mudstone Interbedded Mudstone and Sandstone Channel Sandstone Aggradational or Channel Sandstone Sandstone Coal		SCALE AS SHOWN	DRAWING TITLE GEOLOGIC CROSS SECTION E - E' PLANT MILLER ASH POND	
			DATE 12/05/2023		
			DRAWN BY KAR	FIGURE NO FIGURE 4E	
			CHECKED BY ACP		



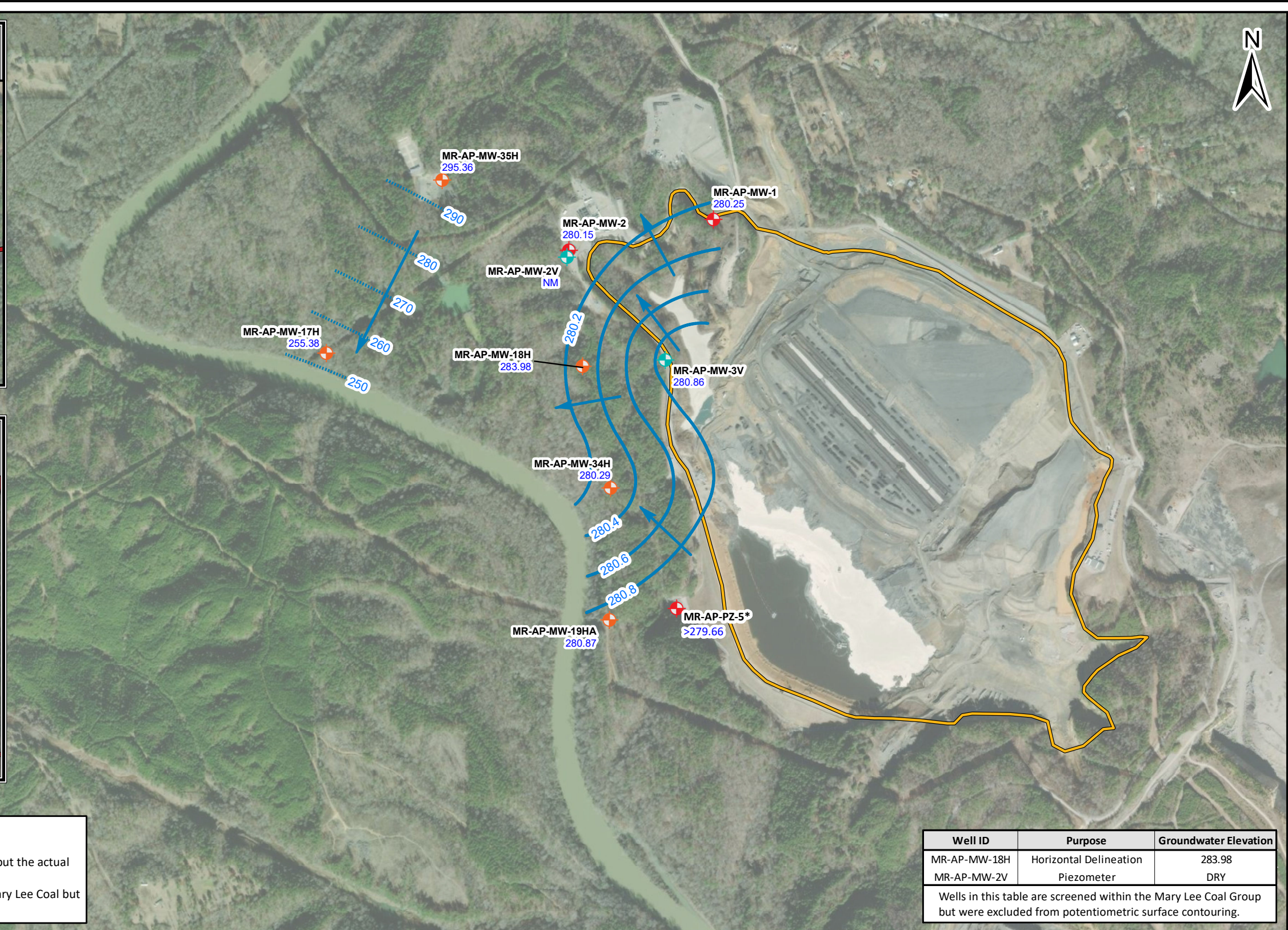
NOTES:

1. ft NAVD88 indicates feet above the North American Vertical Datum of 1988.
2. *MR-AP-PZ-5 is an artesian well; groundwater elevation is higher than 279.66, but the actual groundwater elevation is unknown.
3. MR-AP-MW-3V and MR-AP-MW-18H are located stratigraphically above the Mary Lee Coal but within the Mary Lee Coal Group.

Legend

- Downgradient Compliance Well
- Horizontal Delineation Well
- Piezometer
- Ash Pond Boundary
- Potentiometric Surface Contour (ft NAVD88)
- Lower Mary Lee Group Contour
- Approximate Groundwater Flow Direction

MR-AP-MW-1 Well ID
280.25 Groundwater Elevation



Well ID	Purpose	Groundwater Elevation
MR-AP-MW-18H	Horizontal Delineation	283.98
MR-AP-MW-2V	Piezometer	DRY

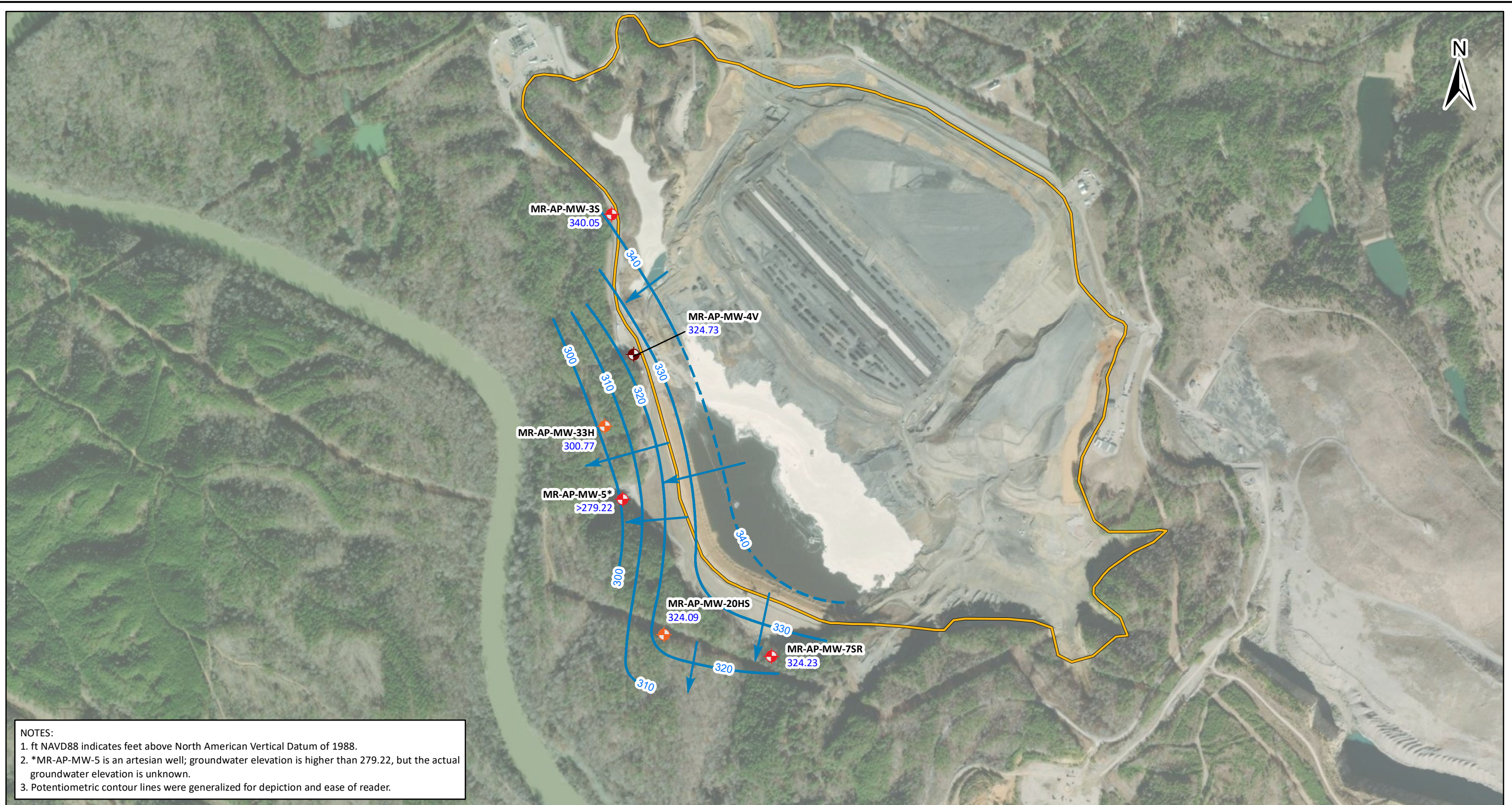
Wells in this table are screened within the Mary Lee Coal Group but were excluded from potentiometric surface contouring.

Scale: 0 to 1,000 Feet

Base Map: Maxar Vivid Advanced, 1/06/2023
Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:12,000	DRAWING TITLE	POTENTIOMETRIC SURFACE CONTOUR MAP MARY LEE AQUIFER - APRIL 18, 2023 PLANT MILLER ASH POND
DATE	1/30/2024		
DRAWN BY	KAR	FIGURE NO.	FIGURE 6A
CHECKED BY	ACP		

Southern Company



NOTES:
 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. *MR-AP-MW-5 is an artesian well; groundwater elevation is higher than 279.22, but the actual groundwater elevation is unknown.
 3. Potentiometric contour lines were generalized for depiction and ease of reader.

LEGEND	
	Downgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Ash Pond Boundary
	Conceptual Potentiometric Surface Contour (ft NAVD88)
	Inferred Conceptual Potentiometric Surface Contour (ft NAVD88)
	Approximate Groundwater Flow Direction
MR-AP-MW-4V	Well ID
324.73	Groundwater Elevation



Base Map: Maxar Vivid Advanced, 1/06/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:9,000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP GILLESPY LOWER DISCRETE FLOW ZONE - APRIL 18, 2023 PLANT MILLER ASH POND
DATE	1/27/2024	
DRAWN BY	KAR	FIGURE NO.
CHECKED BY	ACP	FIGURE 6B



NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Potentiometric contour lines were generalized for depiction and ease of reader.
 3. Wells MW-6V, MW-7DR, and MW-32H monitor parallel-to-bedding-plane fractures within Gillespy Coal Group sandstones.
 4. MW-20H, while screened lower, appears hydraulically connected.

LEGEND	
Downgradient Compliance Well	Conceptual Potentiometric Surface Contour (ft NAVD88)
Horizontal Delineation Well	Approximate Groundwater Flow Direction
Vertical Delineation Well	Ash Pond Boundary

MR-AP-MW-6V Well ID
 259.95 Groundwater Elevation



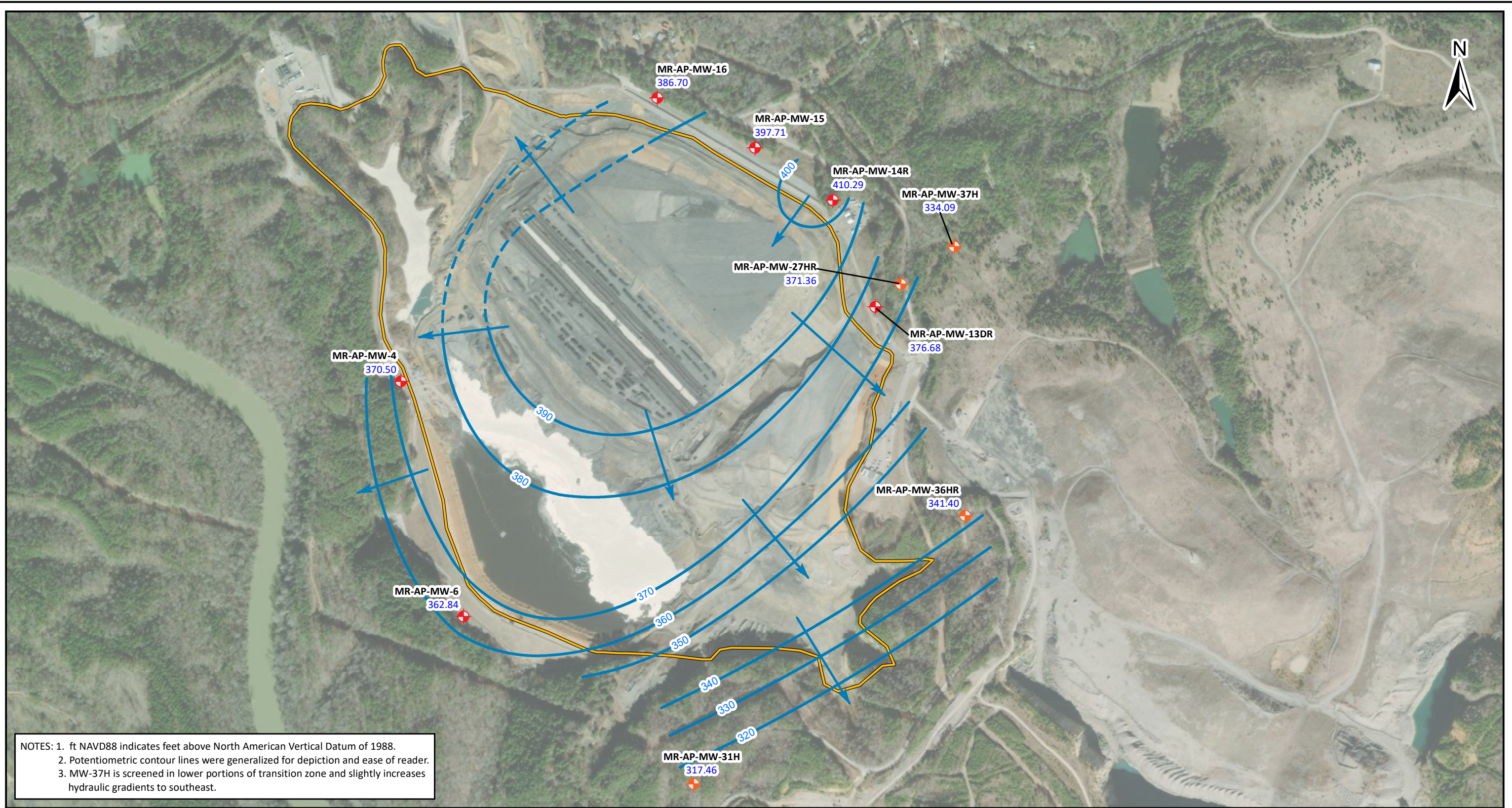
Base Map: Maxar Vivid Advanced, 1/06/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:9,000
DATE	1/30/2024
DRAWN BY	KAR
CHECKED BY	ACP

DRAWING TITLE
**POTENTIOMETRIC SURFACE CONTOUR MAP
 GILLESPIY LOWER SANDSTONE UNIT(S) - APRIL 18, 2023
 PLANT MILLER ASH POND**

FIGURE NO.
FIGURE 6C





NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Potentiometric contour lines were generalized for depiction and ease of reader.
 3. MW-37H is screened in lower portions of transition zone and slightly increases hydraulic gradients to southeast.

LEGEND

- Downgradient Compliance Well
- Horizontal Delineation Well
- Ash Pond Boundary
- MR-AP-MW-4** Well ID
370.50 Groundwater Elevation
- Conceptual Potentiometric Surface Contour (ft NAVD88)
- Inferred Conceptual Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction



Base Map: Maxar Vivid Advanced, 1/06/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:9,000
DATE	1/30/2024
DRAWN BY	KAR
CHECKED BY	ACP

DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
GILLESPY COAL-PRATT TRANSITION ZONE - APRIL 18, 2023
PLANT MILLER ASH POND

FIGURE NO.
FIGURE 6D





NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Potentiometric contour lines were generalized for depiction and ease of reader.
 3. Pratt Coal Group is comprised of discrete flow zones with different groundwater elevations; these differences may impact hydraulic gradients shown.
 4. Mine dewatering to southeast could also increase hydraulic gradients in this direction.
 5. The average water surface elevation of the pond was 384.00 on April 18, 2023.

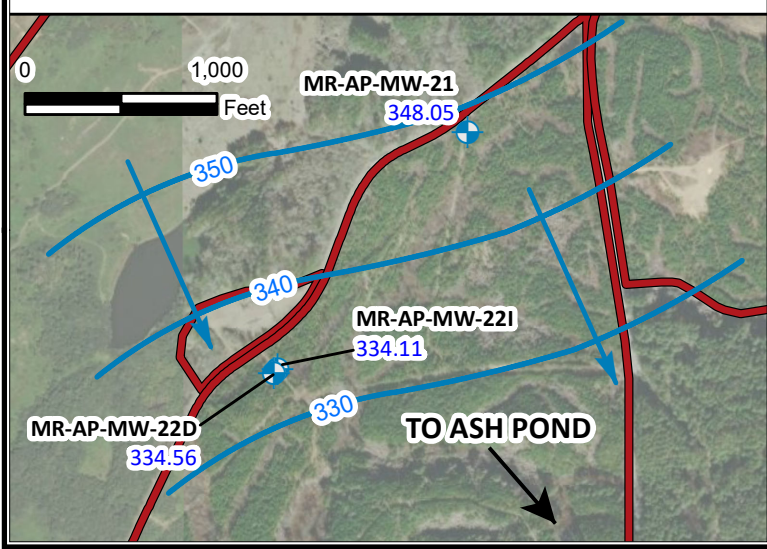
LEGEND	
Downgradient Compliance Well	Conceptual Potentiometric
Horizontal Delineation Well	Approximate Groundwater Flow
MR-AP-MW-9SR Well ID 390.80 Groundwater Elevation	Ash Pond Boundary



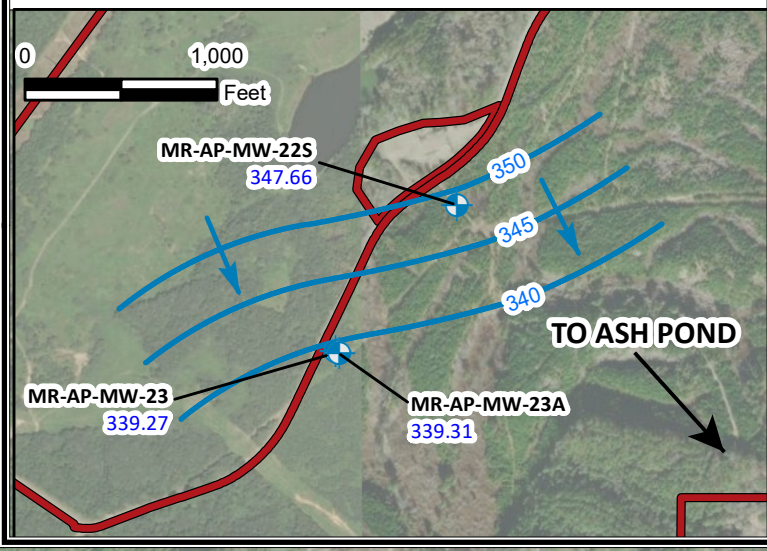
Base Map: Maxar Vivid Advanced, 1/06/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:9,000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP PRATT COAL GROUP (GENERALIZED) - APRIL 18, 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KAR	FIGURE NO.
CHECKED BY	ACP	FIGURE 6E
		Southern Company

**POTENTIOMETRIC SURFACE CONTOUR MAP
UPGRADIENT MONITORING WELLS-DEEP - SEPTEMBER 25, 2023**



**POTENTIOMETRIC SURFACE CONTOUR MAP
UPGRADIENT MONITORING WELLS-SHALLOW - SEPTEMBER 25, 2023**

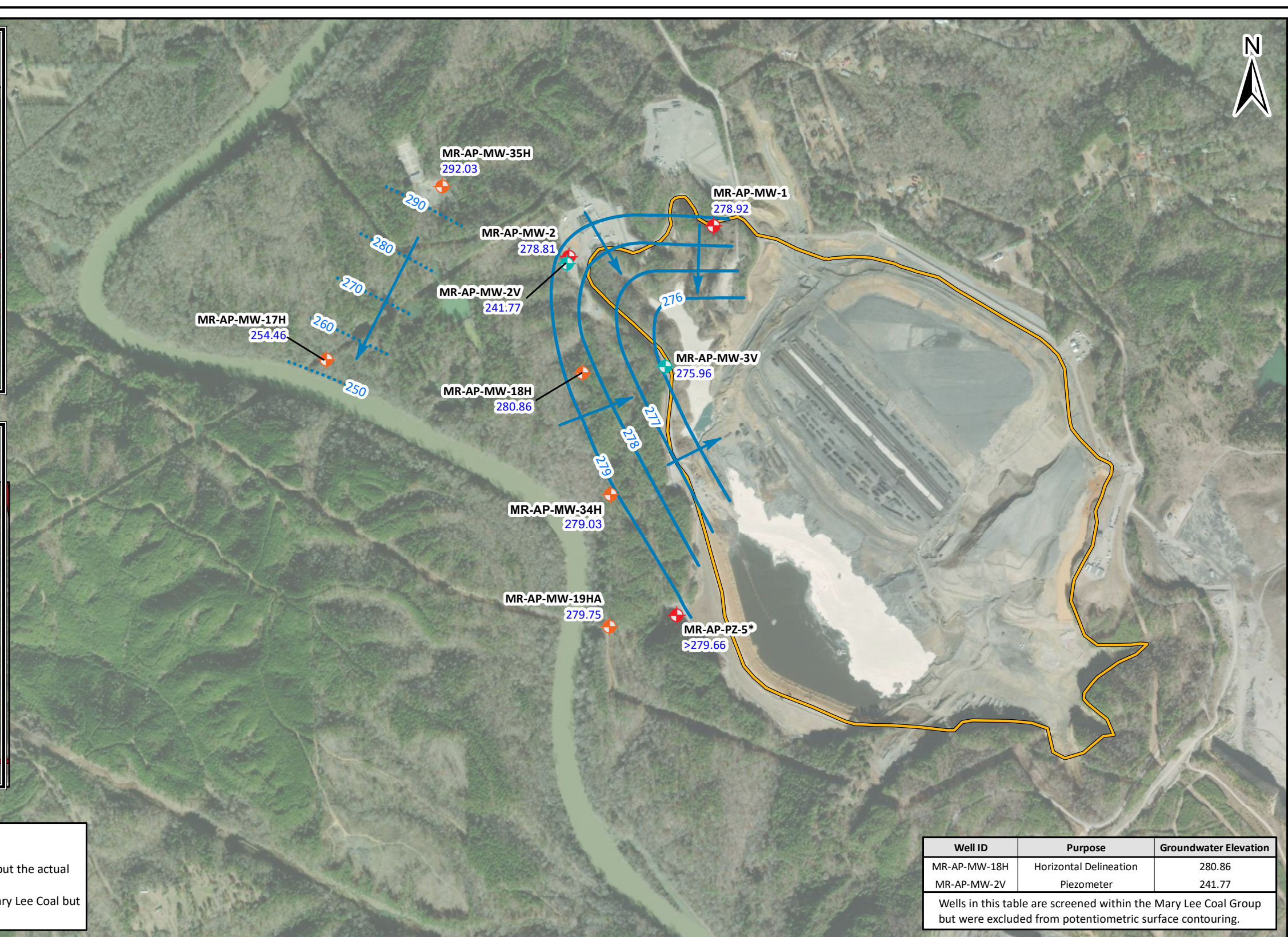


NOTES:
 1. ft NAVD88 indicates feet above the North American Vertical Datum of 1988.
 2. *MR-AP-PZ-5 is an artesian well; groundwater elevation is higher than 279.66, but the actual groundwater elevation is unknown.
 3. MR-AP-MW-3V and MR-AP-MW-18H are located stratigraphically above the Mary Lee Coal but within the Mary Lee Coal Group.

LEGEND

Downgradient Compliance Well	Conceptual Potentiometric Surface Contour (ft NAVD88)
Horizontal Delineation Well	Lower Mary Lee Group Contour
Piezometer	Approximate Groundwater Flow Direction
Ash Pond Boundary	

MR-AP-MW-1 Well ID
278.92 Groundwater Elevation



Well ID	Purpose	Groundwater Elevation
MR-AP-MW-18H	Horizontal Delineation	280.86
MR-AP-MW-2V	Piezometer	241.77

Wells in this table are screened within the Mary Lee Coal Group but were excluded from potentiometric surface contouring.



Base Map: Maxar Vivid Advanced, 1/06/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:12,000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP MARY LEE AQUIFER - SEPTEMBER 25, 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KAR	FIGURE NO. FIGURE 7A
CHECKED BY	ACP	



NOTES:
 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. *MR-AP-MW-5 is an artesian well; groundwater elevation is higher than 279.22, but the actual groundwater elevation is unknown.
 3. Potentiometric contour lines were generalized for depiction and ease of reader.

LEGEND	
	Downgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Ash Pond Boundary
	Conceptual Potentiometric Surface
	Approximate Groundwater Flow
	MR-AP-MW-4V Well ID 320.19 Groundwater Elevation



Base Map: Maxar Vivid Advanced, 1/06/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:9,000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP GILLESPY LOWER DISCRETE FLOW ZONE - SEPTEMBER 25, 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KAR	FIGURE NO. FIGURE 7B
CHECKED BY	ACP	Southern Company



NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Potentiometric contour lines were generalized for depiction and ease of reader.
 3. Wells MR-AP-MW-6V, MR-AP-MW-7DR, and MR-AP-MW-32H monitor parallel-to-bedding-plane fractures within Gillespy Coal Group sandstones.
 4. MR-AP-MW-20H, while screened lower, appears hydraulically connected.

LEGEND	
	Downgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Conceptual Potentiometric Surface Contour (ft NAVD88)
	Approximate Groundwater Flow Direction
	Ash Pond Boundary

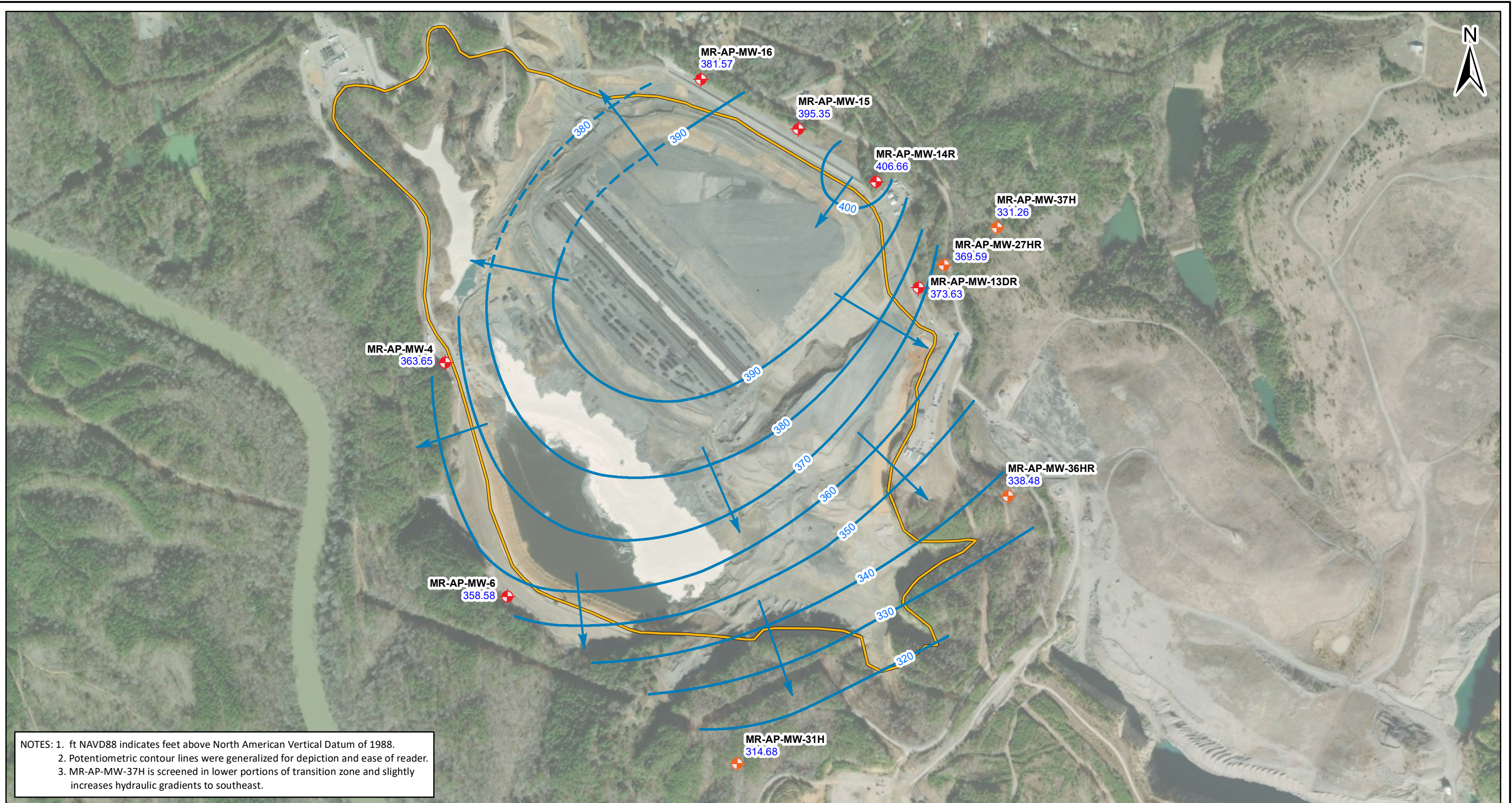
MR-AP-MW-6V Well ID
 259.00 Groundwater Elevation



Base Map: Maxar Vivid Advanced, 1/06/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:9,000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP GILLESPY LOWER SANDSTONE UNIT(S) - SEPTEMBER 25, 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KAR	FIGURE NO. FIGURE 7C
CHECKED BY	ACP	





NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Potentiometric contour lines were generalized for depiction and ease of reader.
 3. MR-AP-MW-37H is screened in lower portions of transition zone and slightly increases hydraulic gradients to southeast.

LEGEND

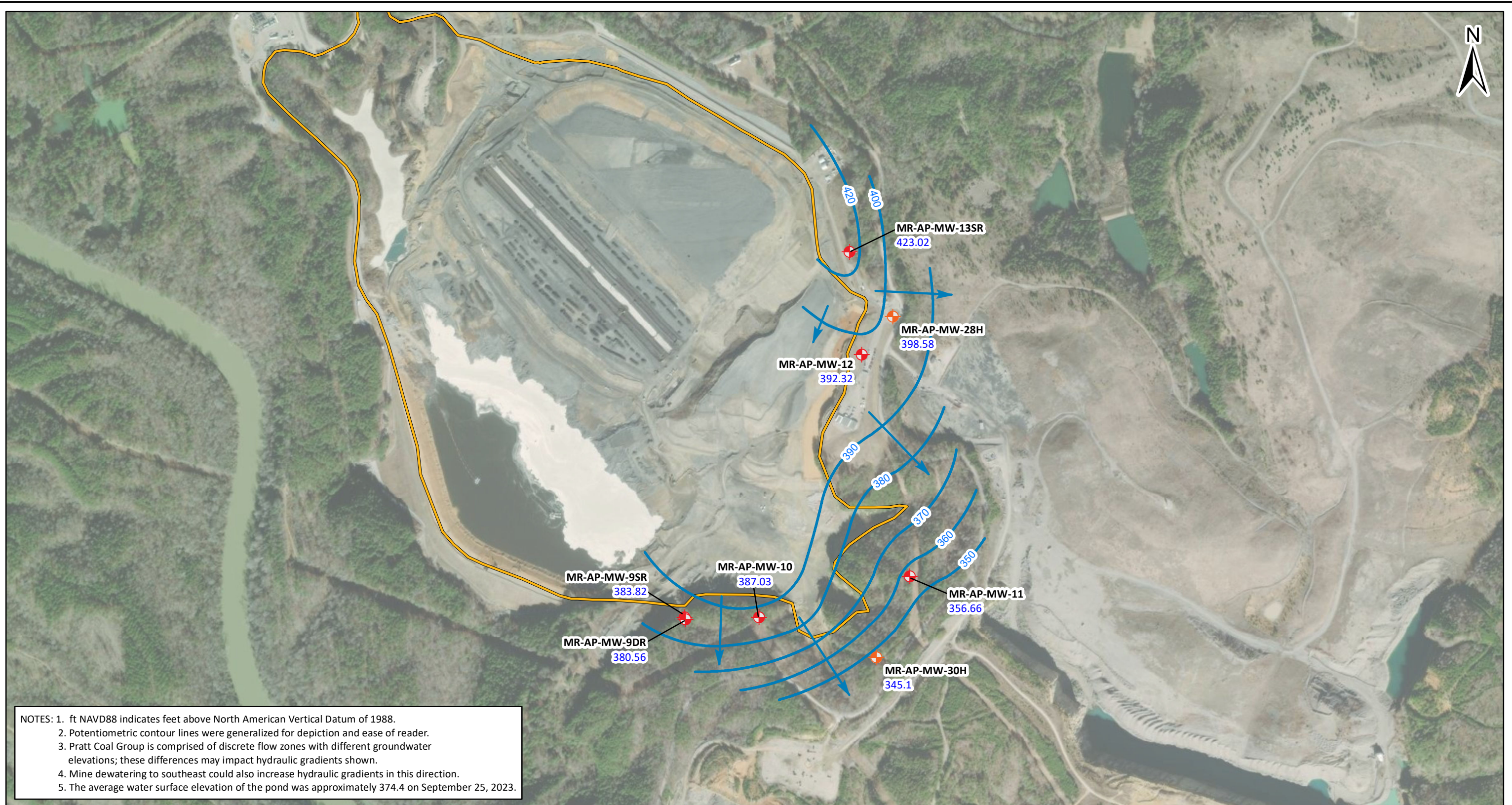
- Downgradient Compliance
- Horizontal Delineation Well
- Ash Pond Boundary
- Well ID
- Groundwater Elevation
- Conceptual Potentiometric Surface Contour (ft NAVD88)
- Inferred Conceptual Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater

MR-AP-MW-4 Well ID
370.50 Groundwater Elevation



Base Map: Maxar Vivid Advanced, 1/06/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:9,000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP GILLESPIY COAL-PRATT TRANSITION ZONE - SEPTEMBER 25, 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KAR	FIGURE NO.
CHECKED BY	ACP	FIGURE 7D
		Southern Company



NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. Potentiometric contour lines were generalized for depiction and ease of reader.
 3. Pratt Coal Group is comprised of discrete flow zones with different groundwater elevations; these differences may impact hydraulic gradients shown.
 4. Mine dewatering to southeast could also increase hydraulic gradients in this direction.
 5. The average water surface elevation of the pond was approximately 374.4 on September 25, 2023.

LEGEND
 Downgradient Compliance Well
 Horizontal Delineation Well
MR-AP-MW-9SR Well ID
390.80 Groundwater Elevation

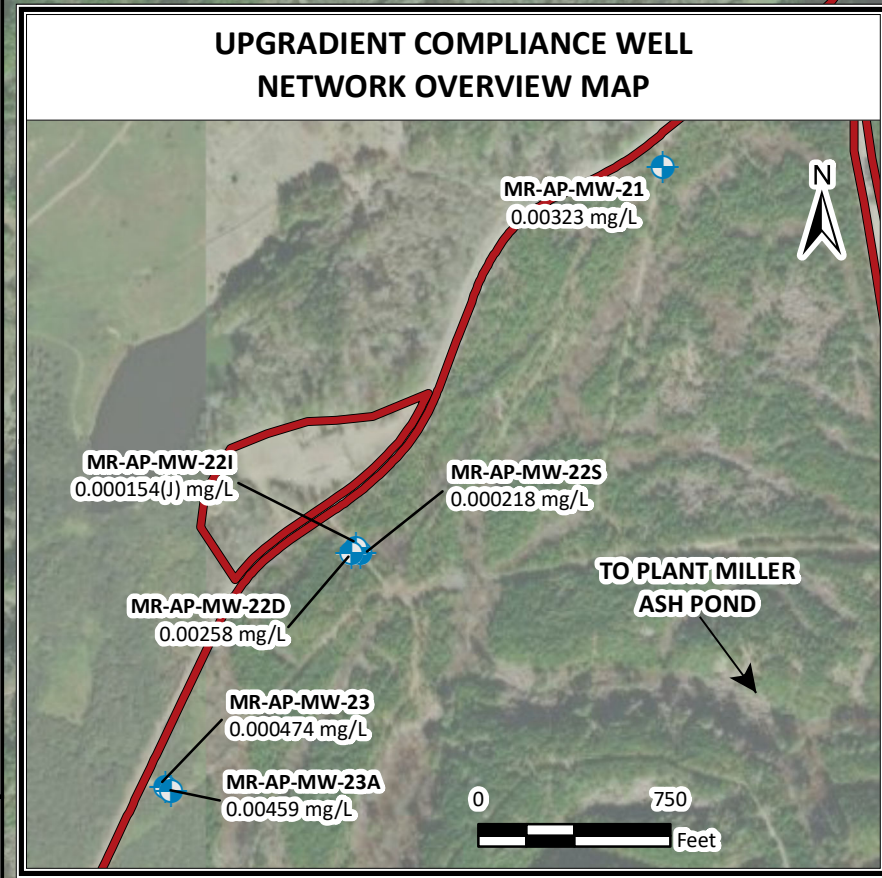
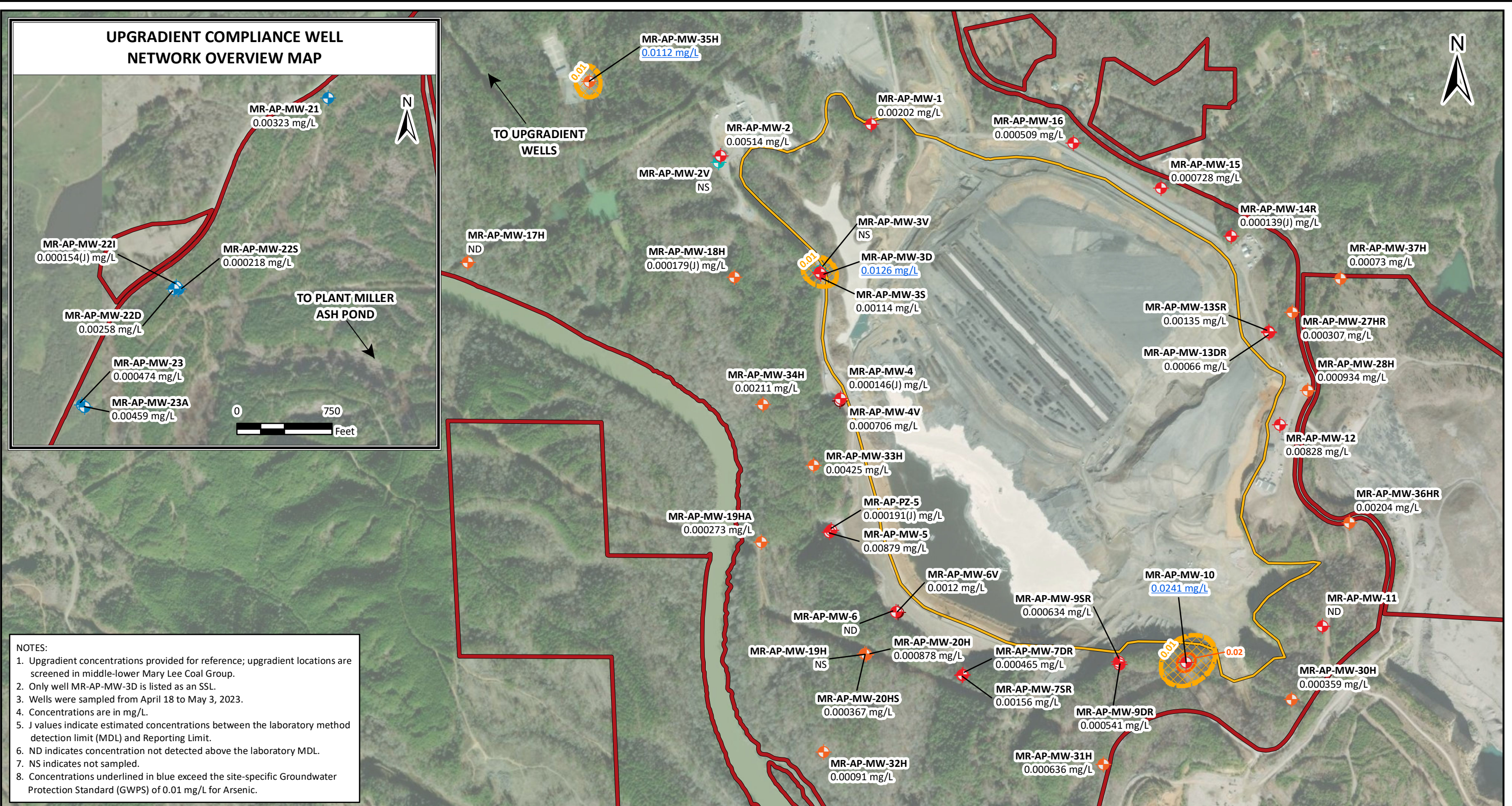
Conceptual Potentiometric Surface Contour (ft NAVD88)
 Approximate Groundwater Flow Direction
 Ash Pond Boundary



Base Map: Maxar Vivid Advanced, 1/06/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:9,000
DATE	1/30/2024
DRAWN BY	KAR
CHECKED BY	ACP

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP PRATT COAL GROUP (GENERALIZED) - SEPTEMBER 25, 2023 PLANT MILLER ASH POND	
FIGURE NO.	FIGURE 7E
Southern Company	



NOTES:

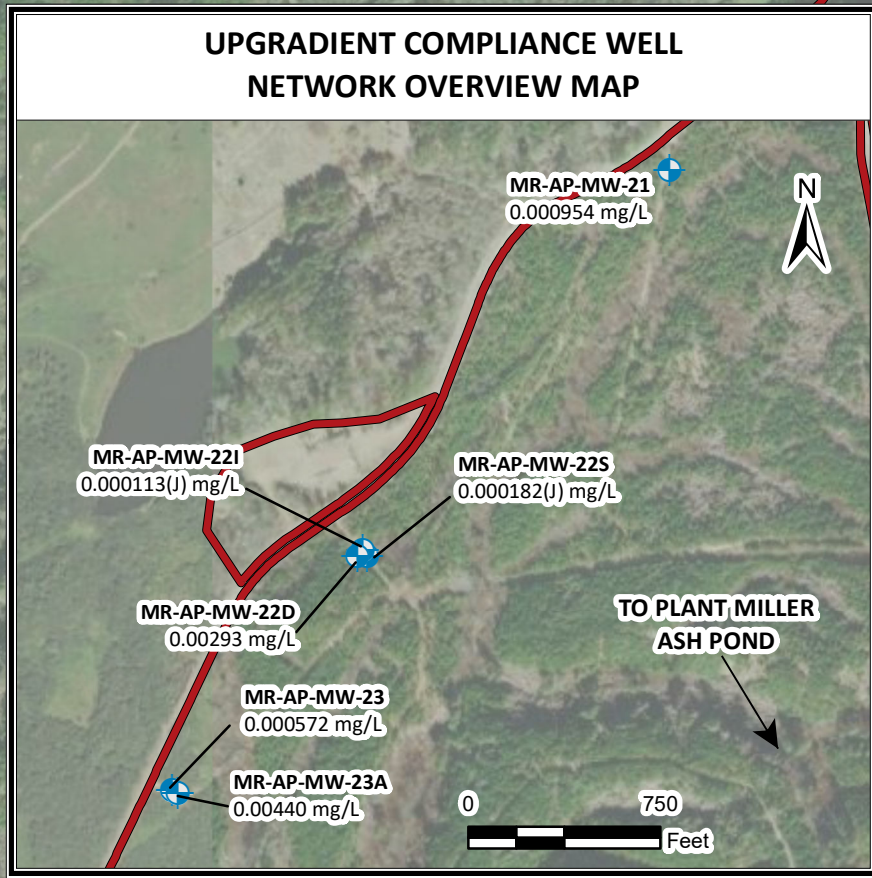
1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
2. Only well MR-AP-MW-3D is listed as an SSL.
3. Wells were sampled from April 18 to May 3, 2023.
4. Concentrations are in mg/L.
5. J values indicate estimated concentrations between the laboratory method detection limit (MDL) and Reporting Limit.
6. ND indicates concentration not detected above the laboratory MDL.
7. NS indicates not sampled.
8. Concentrations underlined in blue exceed the site-specific Groundwater Protection Standard (GWPS) of 0.01 mg/L for Arsenic.

LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Piezometer
	Arsenic Isoconcentration Contour (mg/L) and Area of GWPS Exceedance
	Ash Pond Boundary
	Property Boundary (Approximate)
MR-AP-MW-1	Well ID
0.00202	Arsenic Concentration (mg/L)

0 1,000
Feet

Base Map: Maxar Vivid Advanced, 1/06/2023;
Maxar Vivid Standard, 8/14/2023
Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:12,000	DRAWING TITLE ARSENIC ISOCONCENTRATION MAP APRIL TO MAY 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KAR	FIGURE NO. FIGURE 8A
CHECKED BY	ACP	
		Southern Company



NOTES:

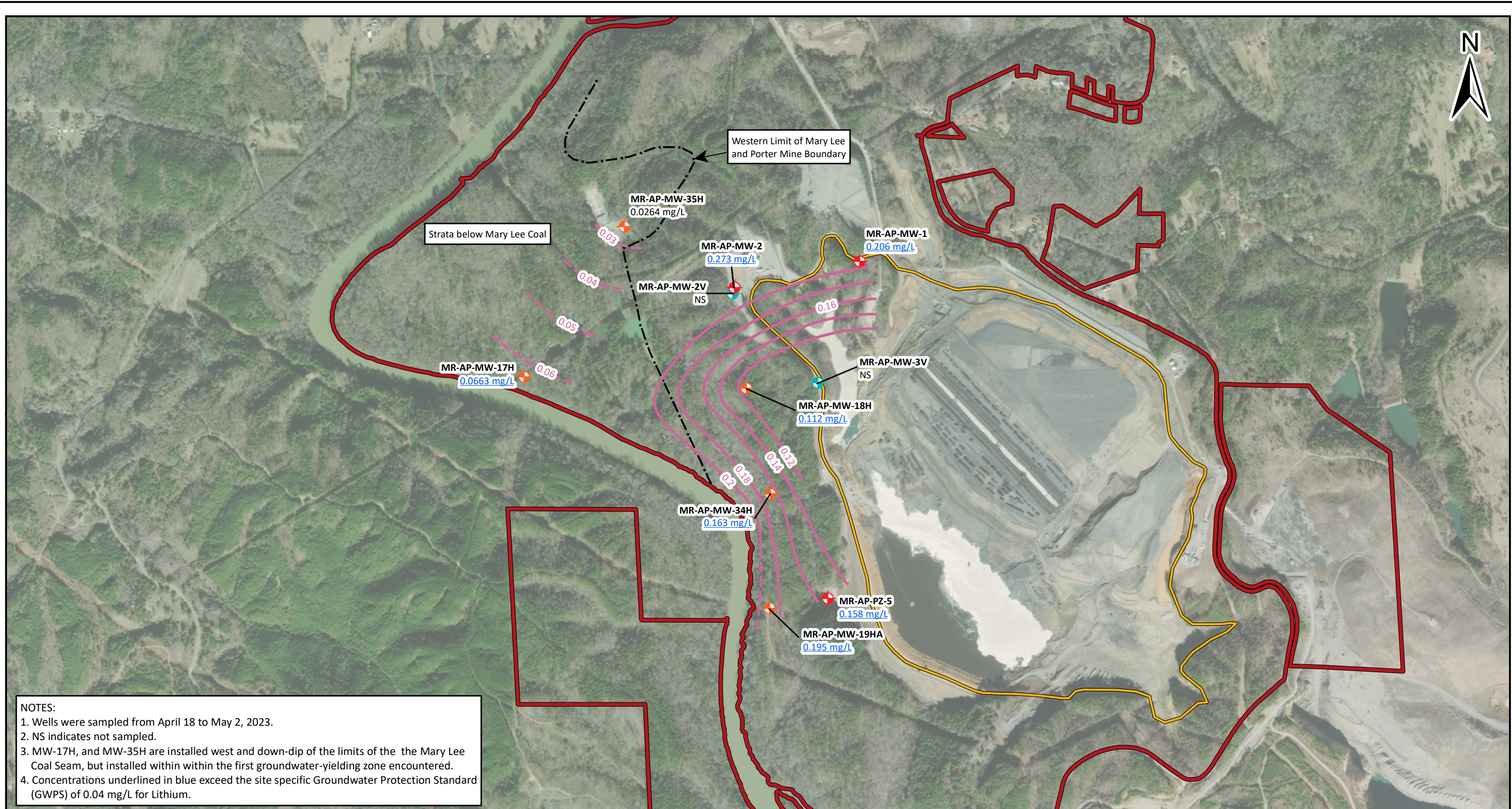
1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
2. Only well MR-AP-MW-3D is listed as an SSL.
3. Wells were sampled from September 11 to October 12, 2023.
4. Concentrations are in mg/L.
5. J values indicate estimated concentrations between the laboratory Method Detection Limit (MDL) and Reporting Limit.
6. ND indicates concentration not detected above the laboratory MDL.
7. NS indicates not sampled.
8. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.01 mg/L for Arsenic.
9. *Well MR-AP-MW-4V had insufficient water for sampling.

LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Piezometer
	Arsenic Isoconcentration Contour (mg/L) and Area of GWPS Exceedance
	Ash Pond Boundary
	Property Boundary (Approximate)
MR-AP-MW-1	Well ID
0.00100	Arsenic Concentration (mg/L)

0 1,000 Feet

Base Map: Maxar Vivid Advanced, 1/06/2023;
Maxar Vivid Standard, 8/14/2023
Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:12,000	DRAWING TITLE ARSENIC ISOCONCENTRATION MAP SEPTEMBER TO OCTOBER 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KAR	FIGURE NO. FIGURE 8B
CHECKED BY	ACP	



NOTES:
 1. Wells were sampled from April 18 to May 2, 2023.
 2. NS indicates not sampled.
 3. MW-17H, and MW-35H are installed west and down-dip of the limits of the the Mary Lee Coal Seam, but installed within within the first groundwater-yielding zone encountered.
 4. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.

LEGEND

	Downgradient Compliance Well		Lithium Isoconcentration Contour (mg/L)		Ash Pond Boundary
	Horizontal Delineation Well		Inferred Lithium Isoconcentration Contour (mg/L)		Property Boundary (Approximate)
	Piezometer		Western Limit of Mary Lee and Porter Mine Boundary		

MR-AP-MW-1 Well ID
0.206 Lithium Concentration (mg/L)

0 1,000 Feet

Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
Base Map: Vivid Imagery, 1/6/2023

SCALE	1:12000	DRAWING TITLE: LITHIUM ISOCONCENTRATION MAP MARY LEE AQUIFER APRIL TO MAY 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KWR	FIGURE NO.
CHECKED BY	ACP	FIGURE 9B
		Southern Company



NOTES:

1. Wells were sampled from April 19 to May 2, 2023.
2. Concentrations are in mg/L.
3. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.

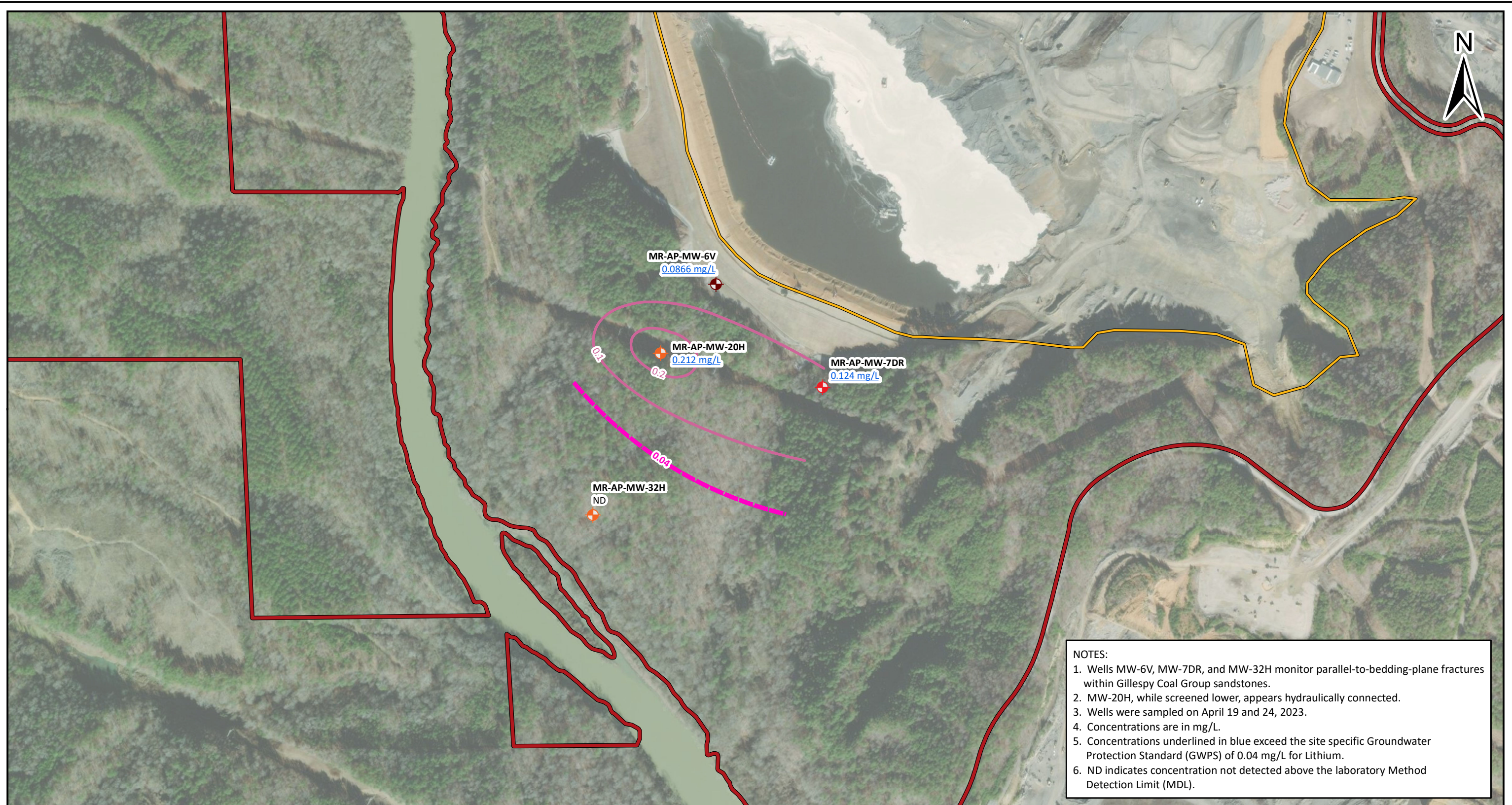
LEGEND

- Downgradient Compliance Well
 - Horizontal Delineation Well
 - Vertical Delineation Well
 - Lithium Isoconcentration Contour (mg/L)
 - Ash Pond Boundary
 - Property Boundary (Approximate)
- MR-AP-MW-4V** Well ID
0.0434 Lithium Concentration (mg/L)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
Base Map: Vivid Imagery, 1/6/2023








SCALE	1:9000	DRAWING TITLE: LITHIUM ISOCONCENTRATION MAP GILLESPIY LOWER DISCRETE FLOW ZONE APRIL TO MAY 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KWR	FIGURE NO. FIGURE 9C
CHECKED BY	AWH	



NOTES:

1. Wells MW-6V, MW-7DR, and MW-32H monitor parallel-to-bedding-plane fractures within Gillespy Coal Group sandstones.
2. MW-20H, while screened lower, appears hydraulically connected.
3. Wells were sampled on April 19 and 24, 2023.
4. Concentrations are in mg/L.
5. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.
6. ND indicates concentration not detected above the laboratory Method Detection Limit (MDL).

LEGEND

-  Downgradient Compliance Well
-  Horizontal Delineation Well
-  Vertical Delineation Well
-  Lithium GWPS Contour (0.04 mg/L)
-  Lithium Isoconcentration Contour (mg/L)
-  Ash Pond Boundary
-  Property Boundary (Approximate)

MR-AP-MW-6V Well ID
0.0866 Lithium Concentration (mg/L)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
Base Map: Vivid Imagery, 1/6/2023

SCALE 1:6000

DATE 1/30/2024

DRAWN BY KWR

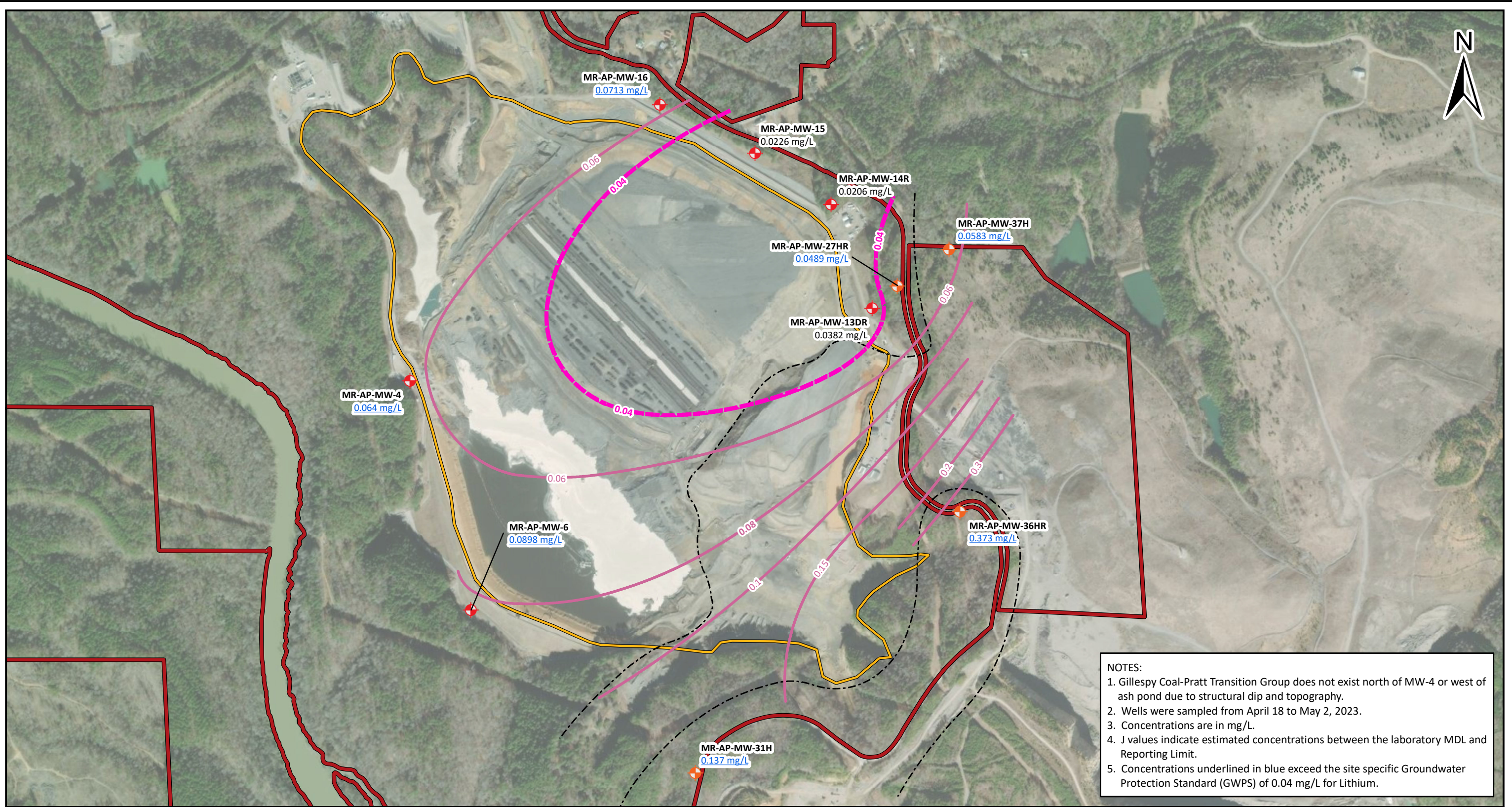
CHECKED BY ACP

DRAWING TITLE: **LITHIUM ISOCONCENTRATION MAP
GILLESPIY LOWER SANDSTONE UNIT(S)
APRIL 2023
PLANT MILLER ASH POND**

FIGURE NO.

FIGURE 9D





MR-AP-MW-16
0.0713 mg/L

MR-AP-MW-15
0.0226 mg/L

MR-AP-MW-14R
0.0206 mg/L

MR-AP-MW-37H
0.0583 mg/L

MR-AP-MW-27HR
0.0489 mg/L

MR-AP-MW-13DR
0.0382 mg/L

MR-AP-MW-4
0.064 mg/L

MR-AP-MW-6
0.0898 mg/L

MR-AP-MW-36HR
0.373 mg/L

MR-AP-MW-31H
0.137 mg/L

- NOTES:
1. Gillespy Coal-Pratt Transition Group does not exist north of MW-4 or west of ash pond due to structural dip and topography.
 2. Wells were sampled from April 18 to May 2, 2023.
 3. Concentrations are in mg/L.
 4. J values indicate estimated concentrations between the laboratory MDL and Reporting Limit.
 5. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.

LEGEND

- Downgradient Compliance Well
- Horizontal Delineation Well
- Lithium Isoconcentration Contour (mg/L)
- Lithium GWPS Contour (0.04 mg/L)
- Extent of Strip Mining
- Ash Pond Boundary
- Property Boundary (Approximate)

MR-AP-MW-4 Well ID
0.064 Lithium Concentration (mg/L)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
Base Map: Vivid Imagery, 1/6/2023

SCALE 1:9235

DATE 1/30/2024

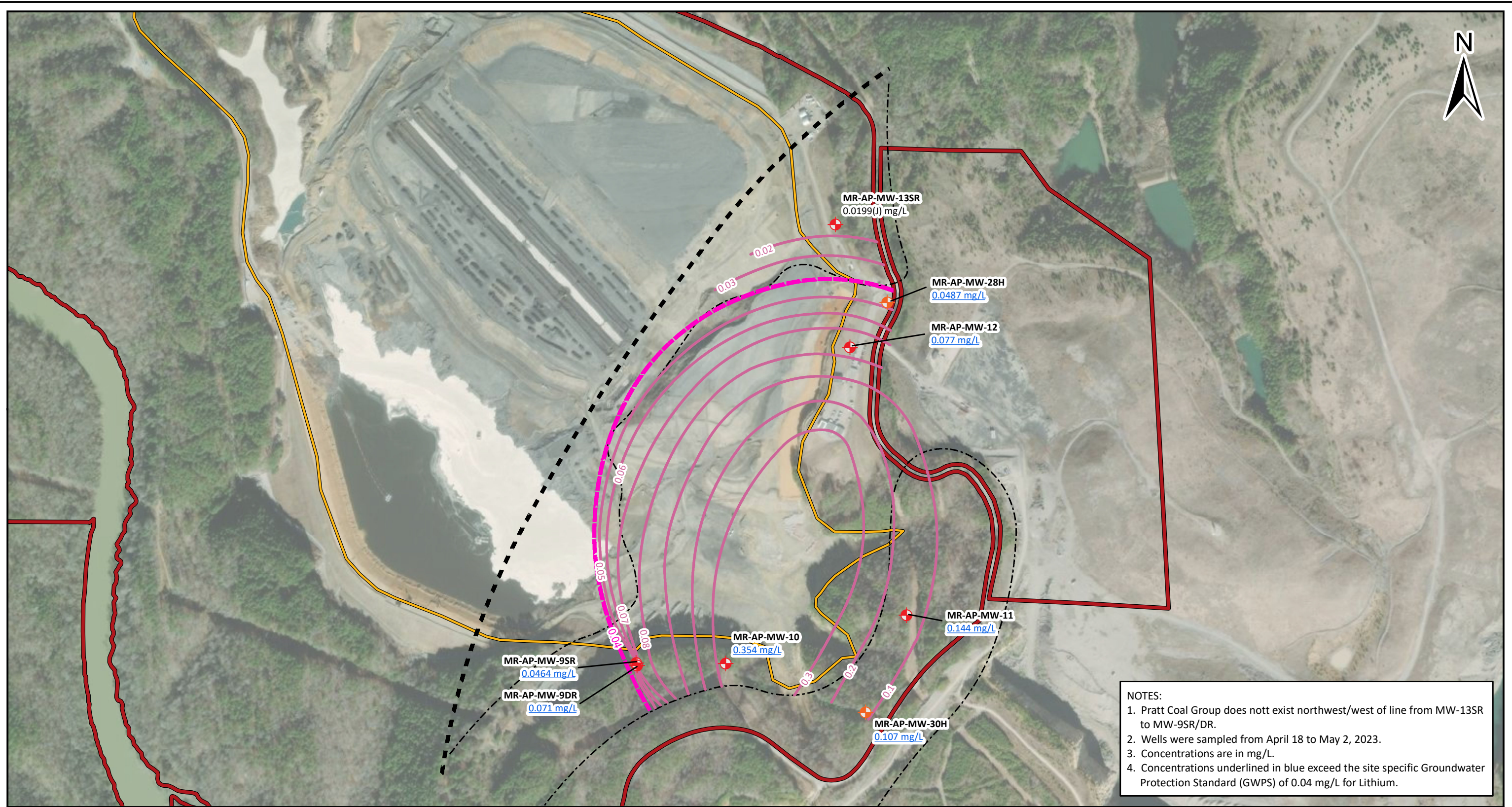
DRAWN BY KWR

CHECKED BY ACP

DRAWING TITLE: **LITHIUM ISOCONCENTRATION MAP
GILLESPIY COAL - PRATT TRANSITION ZONE
APRIL TO MAY 2023
PLANT MILLER ASH POND**

FIGURE NO.
FIGURE 9E





NOTES:
 1. Pratt Coal Group does not exist northwest/west of line from MW-13SR to MW-9SR/DR.
 2. Wells were sampled from April 18 to May 2, 2023.
 3. Concentrations are in mg/L.
 4. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.

LEGEND

- Downgradient Compliance Well
- Horizontal Delineation Well
- Lithium GWPS Contour (0.04 mg/L)
- Lithium Isoconcentration Contour (mg/L)
- Extent of Strip Mining
- Pre-mining limit of Pratt Coal Group
- Ash Pond Boundary
- Property Boundary (Approximate)

MR-AP-MW-10 Well ID
 0.354 Lithium Concentration (mg/L)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
 Base Map: Vivid Imagery, 1/6/2023

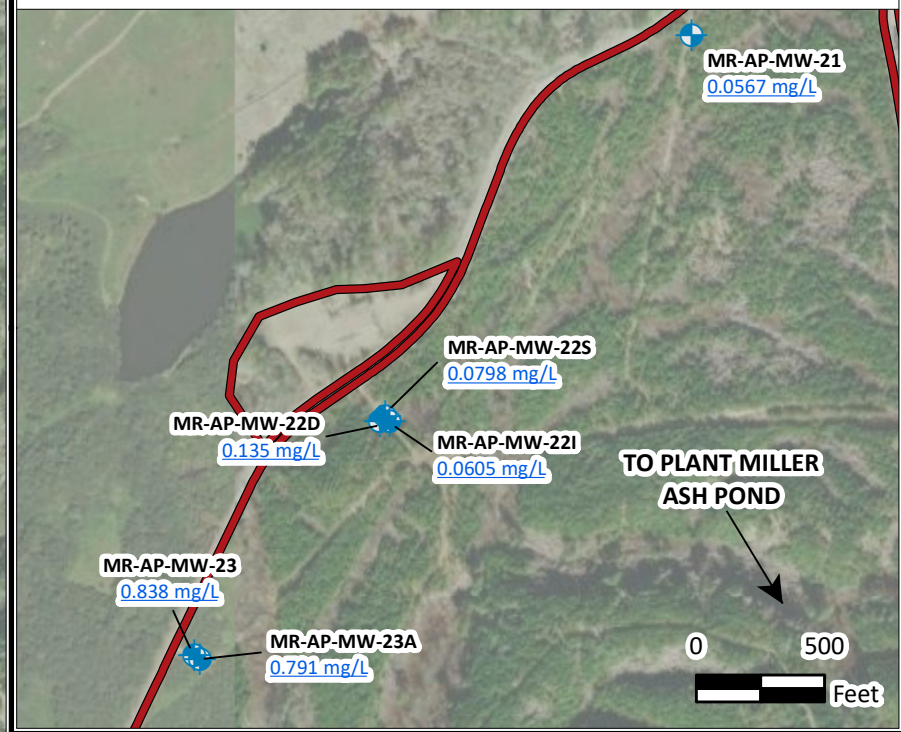
SCALE	1:9000
DATE	1/30/2024
DRAWN BY	KWR
CHECKED BY	ACP

DRAWING TITLE: **LITHIUM ISOCONCENTRATION MAP
 PRATT COAL GROUP (GENERALIZED)
 APRIL TO MAY 2023
 PLANT MILLER ASH POND**

FIGURE NO.
FIGURE 9F



UPGRADIENT COMPLIANCE WELL NETWORK OVERVIEW MAP



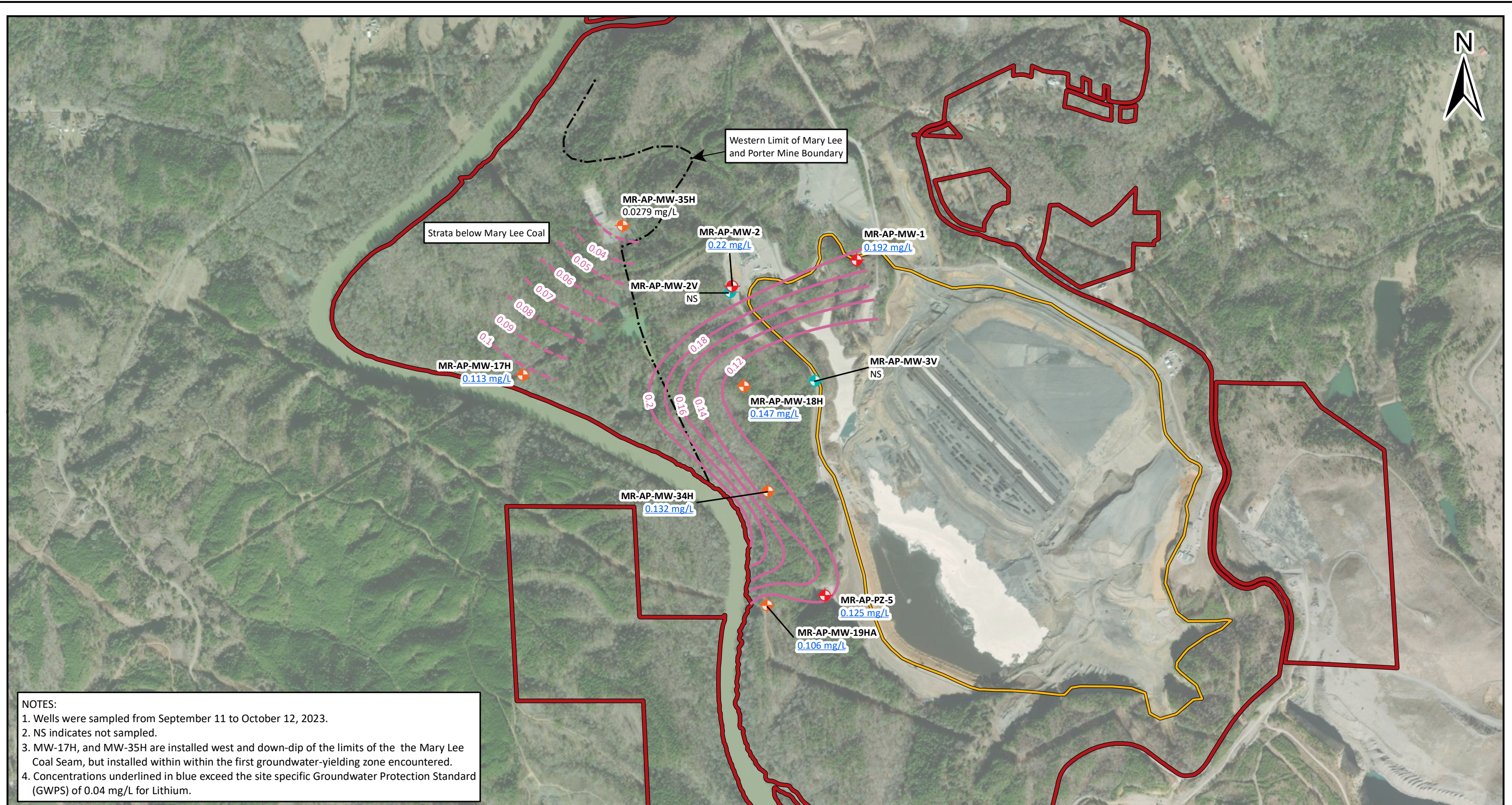
- NOTES:**
1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
 2. Concentrations are in mg/L.
 3. Wells were sampled from September 11 to October 12, 2023.
 4. ND indicates concentration not detected above laboratory method detection limit.
 5. NS indicates not sampled.
 6. J value indicates an estimated concentration between the laboratory MDL and Reporting Limit.
 7. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.
 8. Contours are generalized for reader and span multiple flow systems.

LEGEND	
	Downgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Piezometer
	Upgradient Compliance Well
	Ash Pond Boundary
	Property Boundary (Approximate)
MR-AP-MW-1	Well ID
0.192	Lithium Concentration (mg/L)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
Base Map: Vivid Imagery, 1/6/2023

SCALE	1:9000	DRAWING TITLE: LITHIUM CONCENTRATION CALL-OUT MAP SEPTEMBER TO OCTOBER 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KWR	FIGURE NO. FIGURE 10A
CHECKED BY	ACP	



NOTES:

1. Wells were sampled from September 11 to October 12, 2023.
2. NS indicates not sampled.
3. MW-17H, and MW-35H are installed west and down-dip of the limits of the the Mary Lee Coal Seam, but installed within the first groundwater-yielding zone encountered.
4. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.

LEGEND		
	Downgradient Compliance Well	
	Horizontal Delineation Well	
	Piezometer	
	Ash Pond Boundary	

MR-AP-MW-1 Well ID
0.192 Lithium Concentration (mg/L)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
Base Map: Vivid Imagery, 1/6/2023

SCALE	1:12000	DRAWING TITLE: LITHIUM ISOCONCENTRATION MAP MARY LEE AQUIFER SEPTEMBER TO OCTOBER 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KWR	FIGURE NO. FIGURE 10B
CHECKED BY	ACP	Southern Company



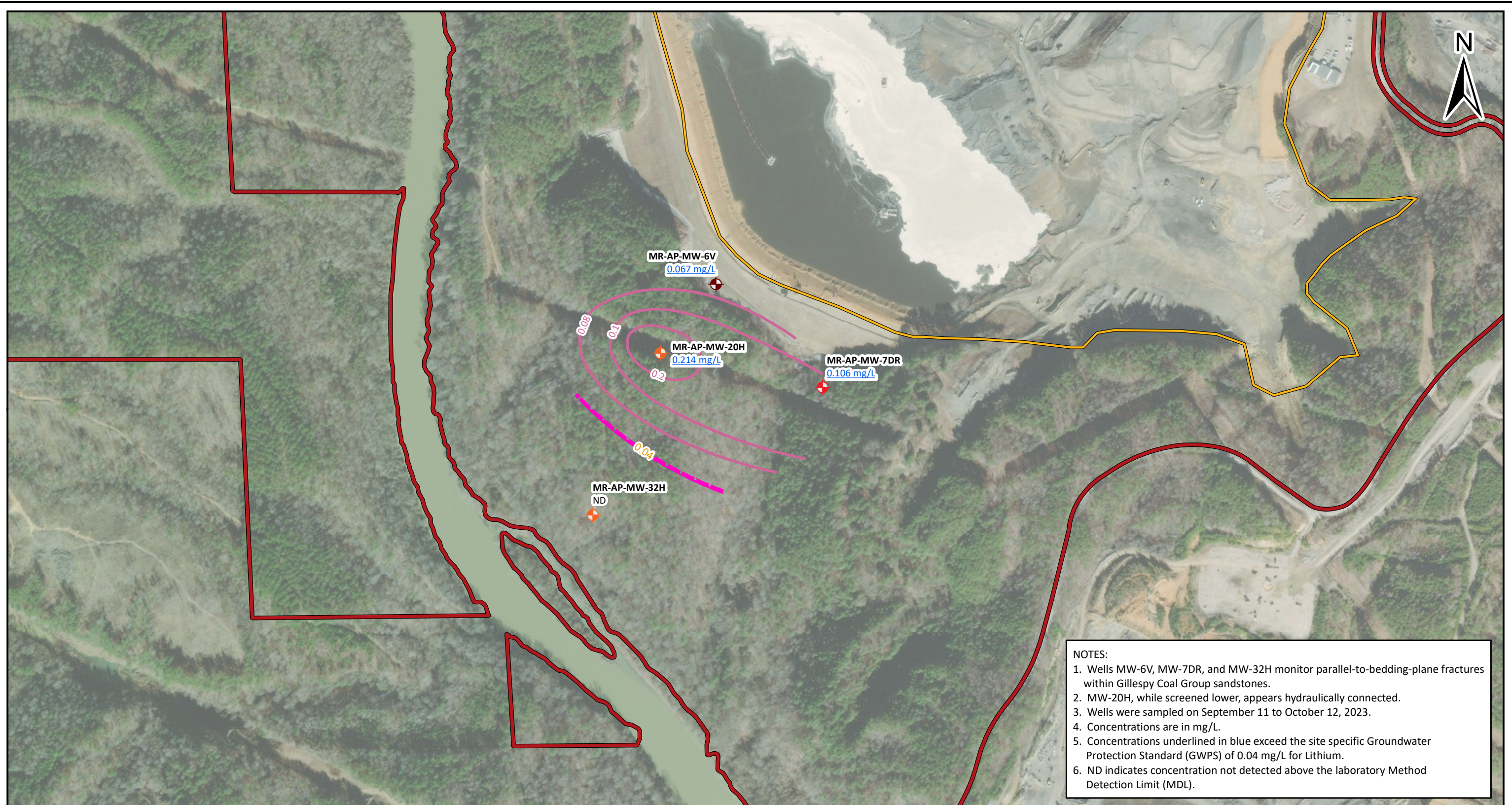
NOTES:
 1. Wells were sampled from September 11 to October 12, 2023.
 2. Concentrations are in mg/L.
 3. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.

LEGEND	
	Downgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Lithium Isoconcentration Contour (mg/L)
	Ash Pond Boundary
	Property Boundary (Approximate)
MR-AP-MW-20HS	Well ID
0.0379	Lithium Concentration (mg/L)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
 Base Map: Vivid Imagery, 1/6/2023

SCALE	1:9000	DRAWING TITLE: LITHIUM ISOCONCENTRATION MAP GILLESPY LOWER DISCRETE FLOW ZONE SEPTEMBER TO OCTOBER 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KWR	FIGURE NO.
CHECKED BY	AWH	FIGURE 10C
		Southern Company



NOTES:

1. Wells MW-6V, MW-7DR, and MW-32H monitor parallel-to-bedding-plane fractures within Gillespy Coal Group sandstones.
2. MW-20H, while screened lower, appears hydraulically connected.
3. Wells were sampled on September 11 to October 12, 2023.
4. Concentrations are in mg/L.
5. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.
6. ND indicates concentration not detected above the laboratory Method Detection Limit (MDL).

LEGEND

- Downgradient Compliance Well
 - Horizontal Delineation Well
 - Vertical Delineation Well
 - Lithium GWPS Contour (0.04 mg/L)
 - Lithium Isoconcentration Contour (mg/L)
 - Ash Pond Boundary
 - Property Boundary (Approximate)
- MR-AP-MW-6V** Well ID
0.067 Lithium Concentration (mg/L)



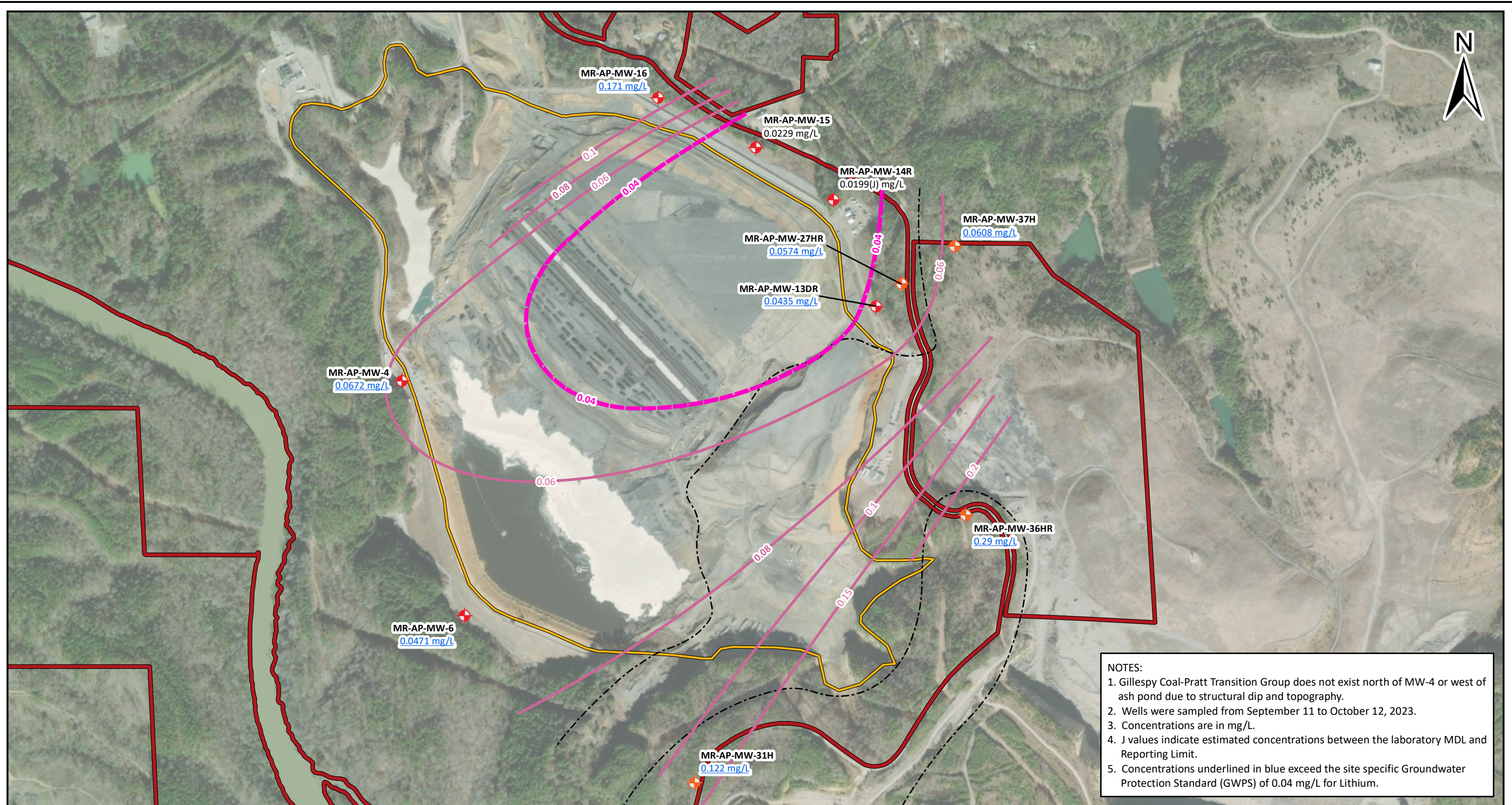
Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
Base Map: Vivid Imagery, 1/6/2023

SCALE	1:6000
DATE	1/30/2024
DRAWN BY	KWR
CHECKED BY	ACP

DRAWING TITLE: **LITHIUM ISOCONCENTRATION MAP
GILLESPIY LOWER SANDSTONE UNIT(S)
SEPTEMBER TO OCTOBER 2023
PLANT MILLER ASH POND**

FIGURE NO.
FIGURE 10D





NOTES:

1. Gillespy Coal-Pratt Transition Group does not exist north of MW-4 or west of ash pond due to structural dip and topography.
2. Wells were sampled from September 11 to October 12, 2023.
3. Concentrations are in mg/L.
4. J values indicate estimated concentrations between the laboratory MDL and Reporting Limit.
5. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.

LEGEND	
	Downgradient Compliance Well
	Horizontal Delineation Well
	Lithium GWPS Contour (0.04 mg/L)
	Lithium Isoconcentration Contour (mg/L)
	Extent of Strip Mining
	Ash Pond Boundary
	Property Boundary (Approximate)
MR-AP-MW-4	Well ID
0.0672	Lithium Concentration (mg/L)



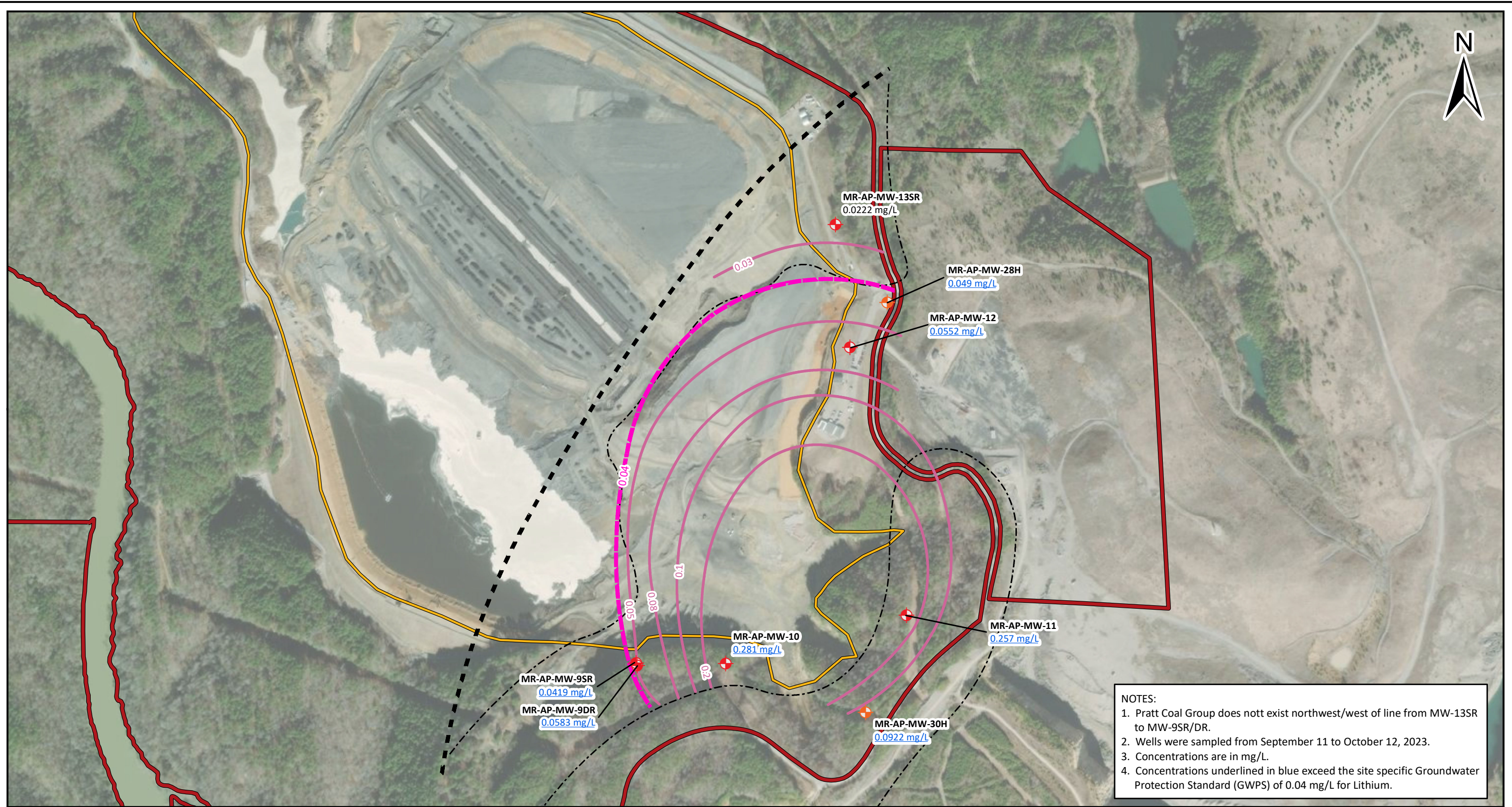
Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
 Base Map: Vivid Imagery, 1/6/2023

SCALE	1:9000
DATE	1/30/2024
DRAWN BY	KWR
CHECKED BY	ACP

DRAWING TITLE: **LITHIUM ISOCONCENTRATION MAP
 GILLESPY COAL - PRATT TRANSITION ZONE
 SEPTEMBER TO OCTOBER 2023
 PLANT MILLER ASH POND**

FIGURE NO.
FIGURE 10E





NOTES:

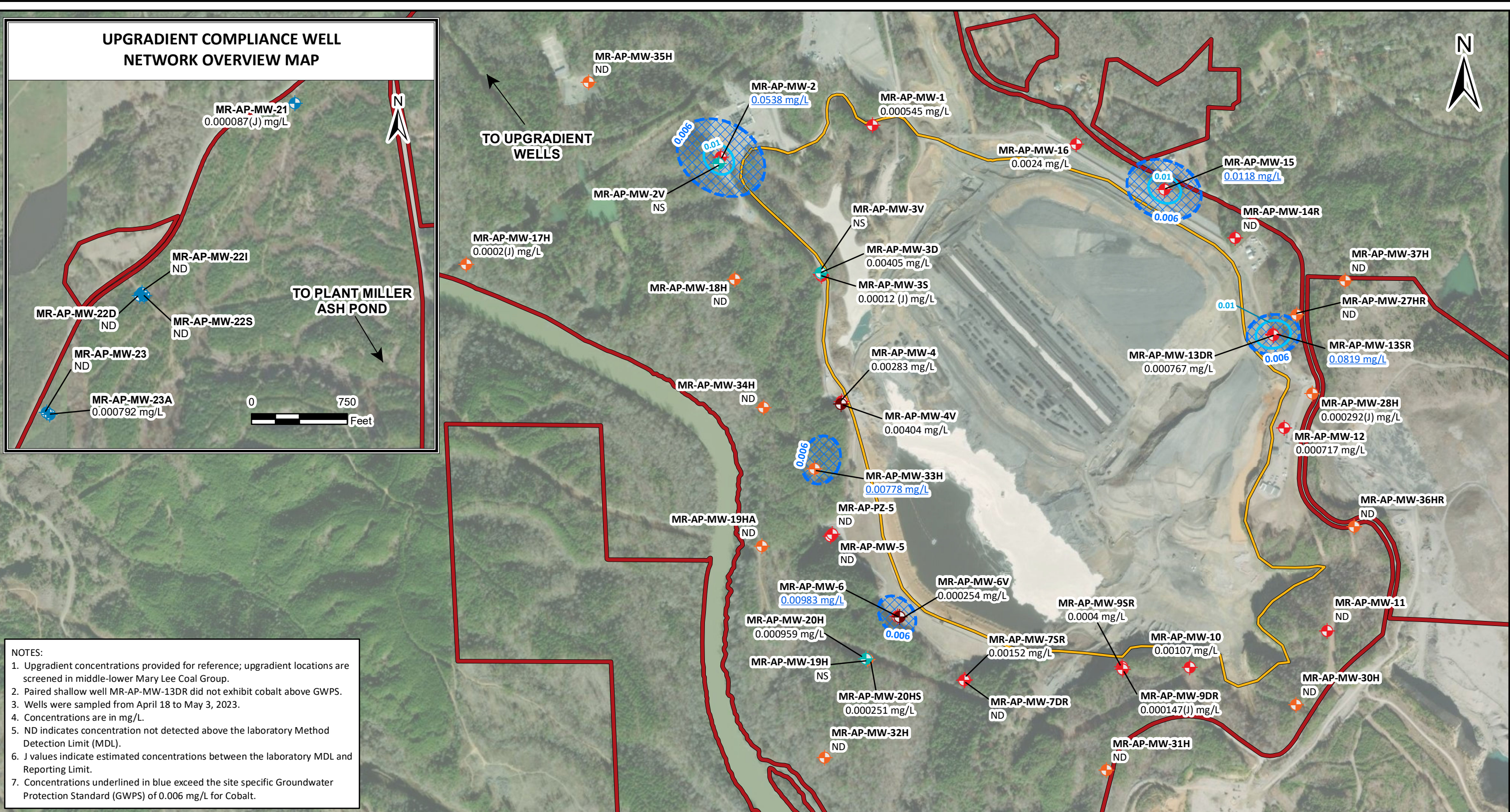
1. Pratt Coal Group does not exist northwest/west of line from MW-13SR to MW-9SR/DR.
2. Wells were sampled from September 11 to October 12, 2023.
3. Concentrations are in mg/L.
4. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.04 mg/L for Lithium.

LEGEND	
	Downgradient Compliance Well
	Horizontal Delineation Well
	Lithium GWPS Contour (0.04 mg/L)
	Lithium Isoconcentration Contour (mg/L)
	Ash Pond Boundary
	Extent of Strip Mining
	Pre-mining limit of Pratt Coal Group
	Property Boundary (Approximate)

0 750 Feet

Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
Base Map: Vivid Imagery, 1/6/2023

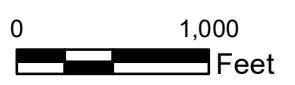
SCALE	1:9000	DRAWING TITLE: LITHIUM ISOCONCENTRATION MAP PRATT COAL GROUP (GENERALIZED) SEPTEMBER TO OCTOBER 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KWR	FIGURE NO. FIGURE 10F
CHECKED BY	ACP	



NOTES:

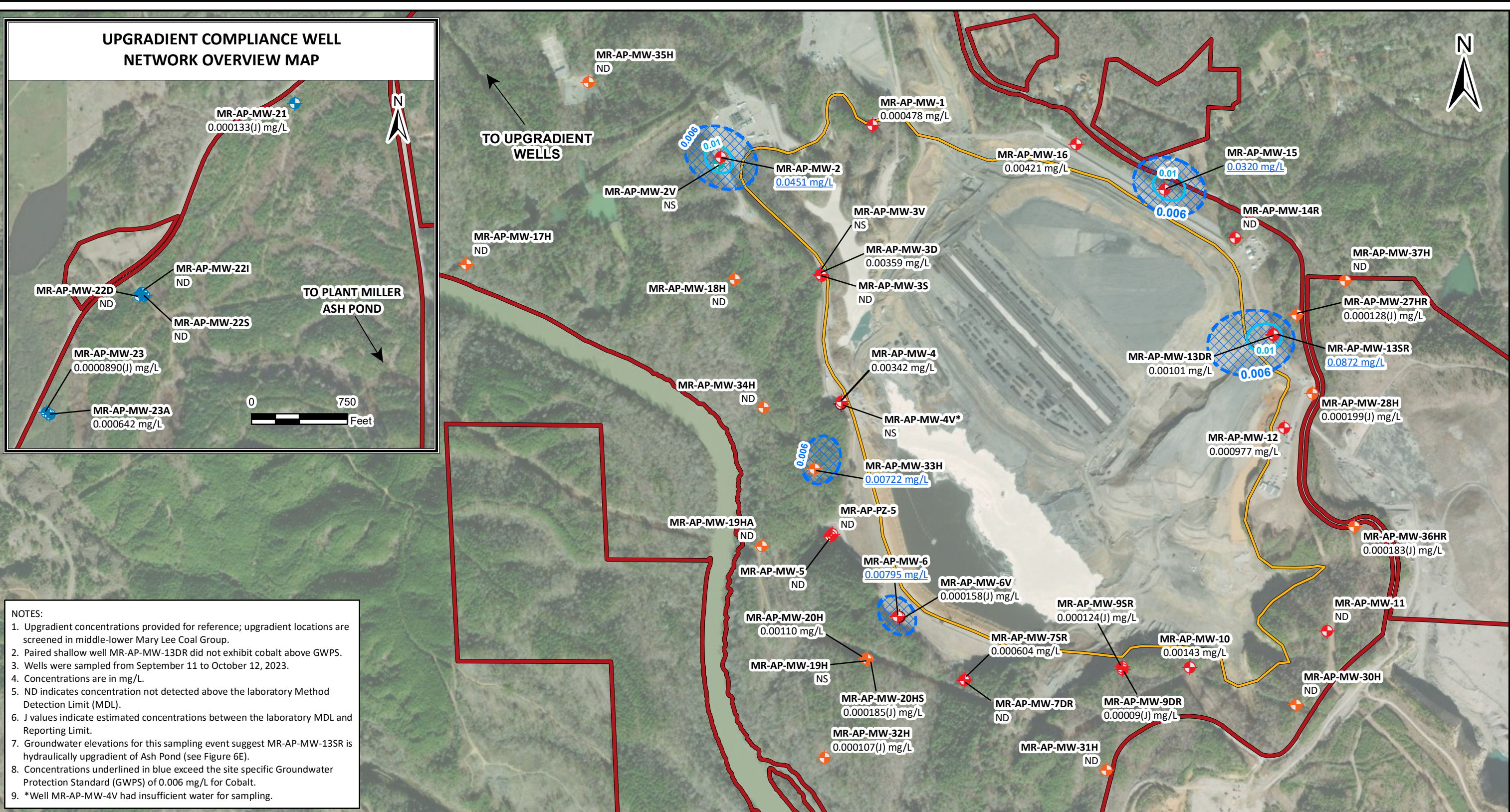
1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
2. Paired shallow well MR-AP-MW-13DR did not exhibit cobalt above GWPS.
3. Wells were sampled from April 18 to May 3, 2023.
4. Concentrations are in mg/L.
5. ND indicates concentration not detected above the laboratory Method Detection Limit (MDL).
6. J values indicate estimated concentrations between the laboratory MDL and Reporting Limit.
7. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.006 mg/L for Cobalt.

LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Piezometer
	Cobalt Isoconcentration Contour (mg/L)
	Cobalt GWPS (0.006 mg/L) and Area of GWPS Exceedance
	Ash Pond Boundary
	Property Boundary (approximate)
MR-AP-MW-4	Well ID
0.00283	Cobalt Concentration (mg/L)



Base Map: Maxar Vivid Advanced, 1/06/2023;
 Maxar Vivid Standard, 8/14/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:12,000	DRAWING TITLE COBALT ISOCONCENTRATION MAP APRIL TO MAY 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KAR	FIGURE NO. FIGURE 11A
CHECKED BY	ACP	



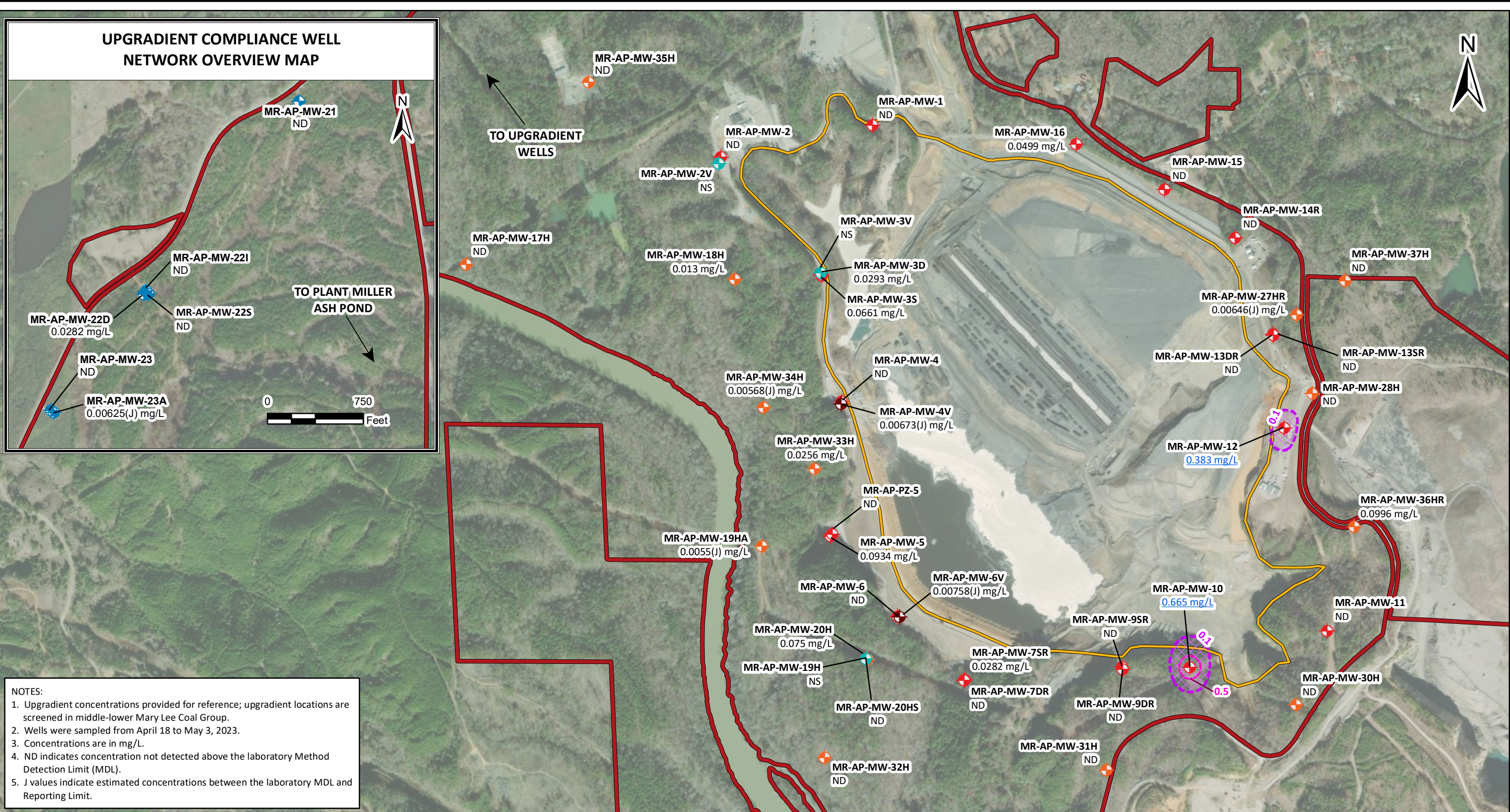
- NOTES:**
1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
 2. Paired shallow well MR-AP-MW-13DR did not exhibit cobalt above GWPS.
 3. Wells were sampled from September 11 to October 12, 2023.
 4. Concentrations are in mg/L.
 5. ND indicates concentration not detected above the laboratory Method Detection Limit (MDL).
 6. J values indicate estimated concentrations between the laboratory MDL and Reporting Limit.
 7. Groundwater elevations for this sampling event suggest MR-AP-MW-13SR is hydraulically upgradient of Ash Pond (see Figure 6E).
 8. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.006 mg/L for Cobalt.
 9. *Well MR-AP-MW-4V had insufficient water for sampling.

LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Piezometer
	Cobalt Isoconcentration Contour (mg/L)
	Cobalt GWPS (0.006 mg/L) and Area of GWPS Exceedance
	Ash Pond Boundary
	Property Boundary (approximate)
	MR-AP-MW-4 Well ID
	0.00342 Cobalt Concentration (mg/L)

0 1,000 Feet

Base Map: Maxar Vivid Advanced, 1/06/2023;
Maxar Vivid Standard, 8/14/2023
Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:12,000	DRAWING TITLE COBALT ISOCONCENTRATION MAP SEPTEMBER TO OCTOBER 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KAR	FIGURE NO. FIGURE 11B
CHECKED BY	ACP	
		Southern Company



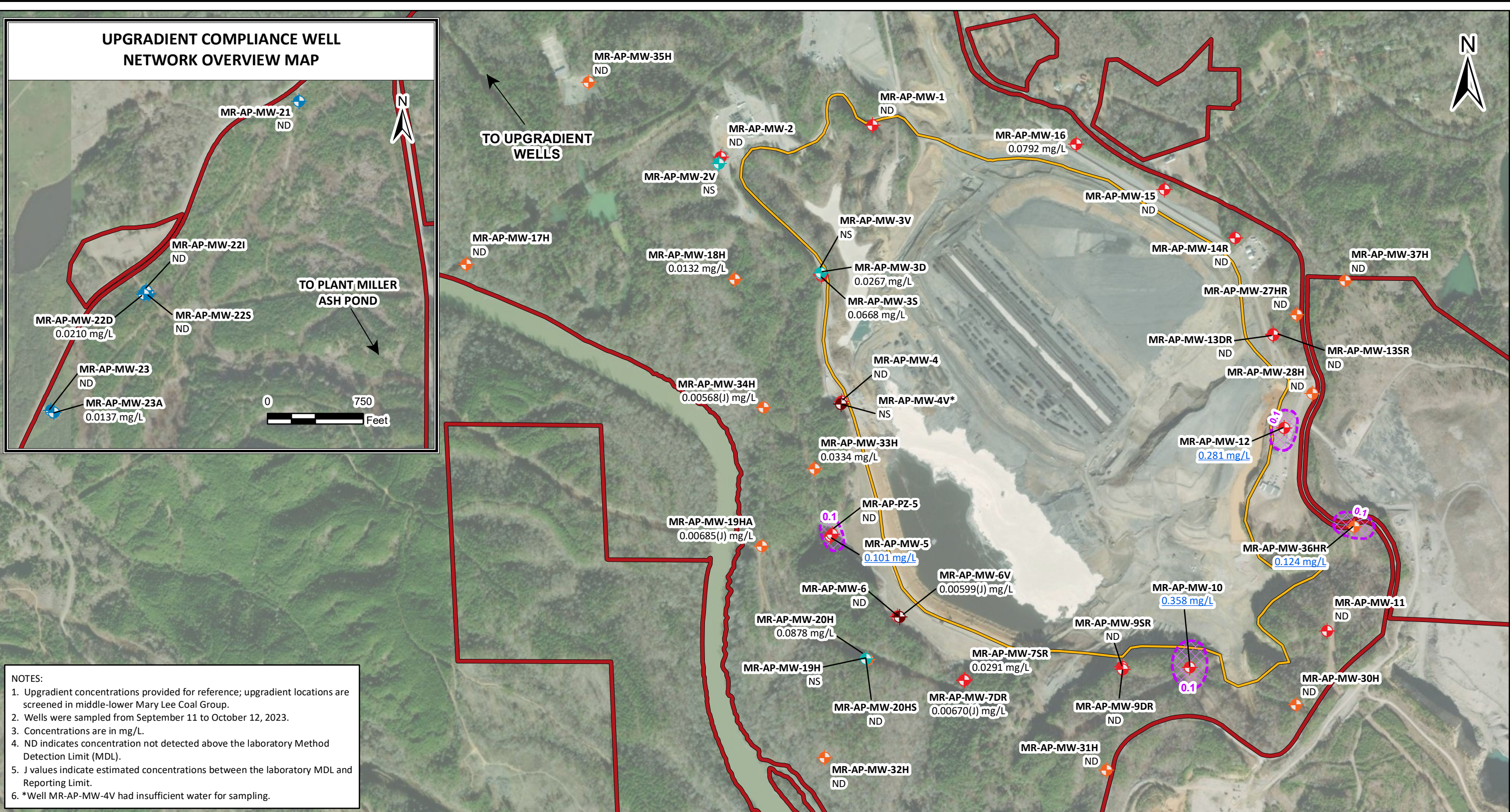
NOTES:

1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
2. Wells were sampled from April 18 to May 3, 2023.
3. Concentrations are in mg/L.
4. ND indicates concentration not detected above the laboratory Method Detection Limit (MDL).
5. J values indicate estimated concentrations between the laboratory MDL and Reporting Limit.

LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Piezometer
	Molybdenum Isoconcentration Contour (mg/L)
	Molybdenum GWPS (0.1 mg/L) and Area of GWPS Exceedance
	Ash Pond Boundary
	Property Boundary (approximate)
MR-AP-MW-6	Well ID
0.00934	Molybdenum Concentration (mg/L)

Base Map: Maxar Vivid Advanced, 1/06/2023;
 Maxar Vivid Standard, 8/14/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:12,000	DRAWING TITLE	MOLYBDENUM ISOCONCENTRATION MAP APRIL TO MAY 2023 PLANT MILLER ASH POND
DATE	1/30/2024		
DRAWN BY	KAR	FIGURE NO.	FIGURE 12A
CHECKED BY	ACP		



NOTES:

1. Upgradient concentrations provided for reference; upgradient locations are screened in middle-lower Mary Lee Coal Group.
2. Wells were sampled from September 11 to October 12, 2023.
3. Concentrations are in mg/L.
4. ND indicates concentration not detected above the laboratory Method Detection Limit (MDL).
5. J values indicate estimated concentrations between the laboratory MDL and Reporting Limit.
6. *Well MR-AP-MW-4V had insufficient water for sampling.

LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Piezometer
	Molybdenum GWPS (0.1 mg/L) and Area of GWPS Exceedance
	Ash Pond Boundary
	Property Boundary (approximate)
MR-AP-MW-20H	Well ID
0.0878	Molybdenum Concentration (mg/L)

Base Map: Maxar Vivid Advanced, 1/06/2023;
 Maxar Vivid Standard, 8/14/2023
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

SCALE	1:12,000	DRAWING TITLE MOLYBDENUM ISOCONCENTRATION MAP SEPTEMBER TO OCTOBER 2023 PLANT MILLER ASH POND
DATE	1/30/2024	
DRAWN BY	KAR	FIGURE NO. FIGURE 12B
CHECKED BY	ACP	

Tables



**Table 1a. - Compliance Monitoring Well Network Details
Plant Miller 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											
MR-AP-MW-21	Upgradient	Pottsville Fm - Lower Mary Lee Group	33.64612	-87.09471	369.94	373.18	183.6	199.94	189.94	10	2/11/2019
GS-AP-MW-8	Upgradient	Pottsville Fm - Pratt Strata	33.63767	-87.19149	431.63	434.61	64.6	390.42	370.42	20	2/26/2016
MR-AP-MW-22S	Upgradient	Pottsville Fm - Lower Mary Lee Group	33.64268	-87.09794	362.02	364.64	50.0	325.04	315.04	10	8/25/2020
MR-AP-MW-22I	Upgradient	Pottsville Fm - Lower Mary Lee Group	33.64273	-87.09799	361.44	364.27	141.4	233.27	223.27	10	8/20/2020
MR-AP-MW-22D	Upgradient	Pottsville Fm - Lower Mary Lee Group	33.64268	-87.09805	361.37	364.49	203.2	171.69	161.69	10	9/2/2020
MR-AP-MW-23	Upgradient	Pottsville Fm - Lower Mary Lee Group	33.64059	-87.10003	350.03	352.43	67.6	295.26	285.26	10	12/20/2019
GS-AP-MW-17V	Upgradient	Pottsville Fm - Shallow Water Table	33.61445	-87.17943	528.75	531.45	151.4	400.45	380.45	20	1/20/2019
MR-AP-MW-23A	Upgradient	Pottsville Fm - Lower Mary Lee Group	33.64056	-87.09997	349.77	352.64	68.1	294.94	284.94	10	8/18/2020
MR-AP-MW-1	Downgradient	Pottsville Fm - Mary Lee Coal	33.61637	-87.06284	470.67	473.68	291.3	192.76	182.76	10	4/18/2016
MR-AP-MW-2	Downgradient	Pottsville Fm - Mary Lee Coal	33.61562	-87.06717	478.83	482.33	236.7	256.03	246.03	10	3/9/2016
MR-AP-MW-3S	Downgradient	Pottsville Formation - Gillespy Lower Discrete	33.61279	-87.06429	433.34	436.27	138.8	307.87	297.87	10	4/16/2016
MR-AP-MW-3D	Downgradient	Pottsville Formation - Sandstone	33.61282	-87.06432	433.94	437.06	169.7	277.76	267.76	10	2/6/2016

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 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 1a. - Compliance Monitoring Well Network Details
Plant Miller 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											
MR-AP-MW-4	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	33.6098	-87.06371	419.22	422.47	68.9	364.01	354.01	10	2/7/2016
MR-AP-MW-5	Downgradient	Pottsville Fm - Gillespy Lower Discrete	33.6066	-87.06404	276.15	279.22	61.0	228.62	218.62	10	2/8/2016
MR-AP-PZ-5	Downgradient	Pottsville Fm - Mary Lee Coal	33.60664	-87.06399	277.22	279.66	220.8	69.26	59.26	10	3/16/2016
MR-AP-MW-6	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	33.60468	-87.06211	371.03	374.30	45.6	339.15	329.15	10	2/9/2016
MR-AP-MW-7SR	Downgradient	Pottsville Formation - Gillespy Lower Discrete	33.60316	-87.06019	332.42	335.65	44.3	301.75	291.75	10	7/10/2020
MR-AP-MW-7DR	Downgradient	Pottsville Fm - Lower Gillespy SS	33.60316	-87.06022	332.20	335.44	109.0	236.84	226.84	10	7/10/2020
MR-AP-MW-9SR	Downgradient	Pottsville Fm - Pratt Group	33.60348	-87.0557	462.90	465.60	99.7	376.30	366.30	10	7/8/2020
MR-AP-MW-9DR	Downgradient	Pottsville Fm - Pratt Group	33.60343	-87.05569	463.29	466.12	116.7	359.82	349.82	10	7/7/2020
MR-AP-MW-13SR	Downgradient	Pottsville Fm - Pratt Group	33.6114	-87.05138	454.29	457.34	54.1	413.64	403.64	10	7/15/2020
MR-AP-MW-13DR	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	33.61137	-87.05138	454.42	457.54	121.8	346.14	336.14	10	7/14/2020
MR-AP-MW-14R	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	33.61369	-87.05247	423.37	426.05	49.9	386.55	376.55	10	6/29/2020

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 1a. - Compliance Monitoring Well Network Details
Plant Miller 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											
MR-AP-MW-15	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	33.61484	-87.05449	410.46	413.65	40.3	383.75	373.75	10	2/29/2016
MR-AP-MW-16	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	33.61593	-87.05702	415.27	418.55	39.9	389.04	379.04	10	2/17/2016
MR-AP-MW-10	Downgradient	Pottsville Fm - Pratt Group	33.60347	-87.05376	538.09	541.74	180.8	371.33	361.33	10	3/29/2016
MR-AP-MW-11	Downgradient	Pottsville Fm - Pratt Group	33.60434	-87.04984	590.92	594.02	271.1	333.37	323.37	10	3/30/2016
MR-AP-MW-12	Downgradient	Pottsville Fm - Pratt Group	33.60917	-87.05107	501.46	504.53	121.7	393.27	383.27	10	2/24/2016

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 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 1b. - Delineation Well Network Details
Plant Miller 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											
MR-AP-MW-4V	Vertical Delineation	Pottsville Fm - Gillespy Lower Discrete	33.60974	-87.06374	419.11	422.22	101.7	330.92	320.92	10	1/14/2019
MR-AP-MW-6V	Vertical Delineation	Pottsville Fm - Lower Gillespy SS	33.60467	-87.06206	372.64	375.95	124.1	262.24	252.24	10	1/14/2019
MR-AP-MW-17H	Horizontal Delineation	Pottsville Fm - Lower Mary Lee Group	33.61307	-87.07444	272.85	276.32	51.4	235.29	225.29	10	1/23/2019
MR-AP-MW-18H	Horizontal Delineation	Pottsville Fm - Upper Mary Lee Group	33.61271	-87.06677	445.93	448.98	203.1	256.28	246.28	10	2/11/2019
MR-AP-MW-19HA	Horizontal Delineation	Pottsville Fm - Mary Lee Coal	33.60636	-87.066	396.87	399.93	308.6	111.75	91.75	20	11/22/2019
MR-AP-MW-20H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS	33.60366	-87.06302	380.86	384.31	200.2	194.49	184.49	10	1/22/2019
MR-AP-MW-20HS	Horizontal Delineation	Pottsville Formation - Gillespy Lower Discrete	33.60365	-87.06298	369.94	373.18	82.3	301.29	291.29	10	1/26/2019
MR-AP-MW-27HR	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition	33.61187	-87.05071	473.34	476.42	182.0	304.82	294.82	10	8/9/2020
MR-AP-MW-28H	Horizontal Delineation	Pottsville Fm - Pratt Group	33.60998	-87.05025	485.80	488.34	115.5	393.24	373.24	20	12/9/2019
MR-AP-MW-30H	Horizontal Delineation	Pottsville Fm - Pratt Group	33.60258	-87.05073	583.37	586.17	278.6	328.01	308.01	20	12/9/2019
MR-AP-MW-32H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS	33.60132	-87.06421	319.74	322.22	70.8	261.80	251.80	10	12/17/2019

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 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 1b. - Delineation Well Network Details
Plant Miller 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											
MR-AP-MW-33H	Horizontal Delineation	Pottsville Fm - Gillespy Lower Discrete	33.60819	-87.06449	318.76	321.53	46.9	295.02	275.02	20	1/7/2019
MR-AP-MW-34H	Horizontal Delineation	Pottsville Fm - Mary Lee Coal	33.60966	-87.06595	428.62	431.46	297.3	144.55	134.55	10	11/20/2019
MR-AP-MW-35H	Horizontal Delineation	Pottsville Fm - Mary Lee Coal	33.61739	-87.07095	302.63	305.12	37.6	277.97	267.97	10	11/28/2019
MR-AP-MW-36HR	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition	33.60683	-87.04906	537.36	540.50	269.3	291.60	271.60	20	8/9/2020
MR-AP-MW-37H	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition	33.61268	-87.04932	437.30	440.12	149.7	300.80	290.80	10	12/18/2019
MR-AP-MW-31H	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition	33.60102	-87.05615	548.40	551.18	292.5	279.08	259.08	20	12/3/2019

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 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 1c. - Piezometer Well Network Details
Plant Miller 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											
MR-AP-MW-2V	Piezometer	Pottsville Fm - Lower Mary Lee Group	33.61546	-87.06723	477.33	480.46	298.5	202.33	182.33	20	2/6/2019
MR-AP-MW-3V	Piezometer	Pottsville Fm - Upper Mary Lee Group	33.61287	-87.06431	434.48	438.04	225.9	222.53	212.53	10	1/9/2019
MR-AP-MW-19H	Piezometer	Pottsville Fm - Unassigned	33.60641	-87.06598	380.86	384.23	134.8	259.87	249.87	10	2/9/2019

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 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 1d. - Abandoned Well Network Details
Plant Miller 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											
MR-AP-MW-7S	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	33.60342	-87.0601	338.25	341.75	43.2	308.96	298.96	10	2/11/2016
MR-AP-MW-7D	Abandoned	Pottsville Fm - Lower Gillespy SS	33.60343	-87.06016	338.27	341.51	116.4	235.56	225.56	10	4/19/2016
MR-AP-MW-8S	Abandoned	Pottsville Fm - Pratt Group	33.60406	-87.05721	455.03	458.06	53.2	415.23	405.23	10	2/27/2016
MR-AP-MW-8D	Abandoned	Pottsville Fm - Pratt Group	33.60405	-87.05726	454.39	457.64	80.6	387.49	377.49	10	2/26/2016
MR-AP-MW-9S	Abandoned	Pottsville Fm - Pratt Group	33.60439	-87.05594	446.35	449.63	45.0	415.08	405.08	10	4/12/2016
MR-AP-MW-9D	Abandoned	Pottsville Fm - Pratt Group	33.60432	-87.05609	446.40	449.71	107.2	352.91	342.91	10	12/10/2015
MR-AP-MW-13D	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	33.61171	-87.05221	434.51	437.36	86.5	361.31	351.31	10	2/25/2016
MR-AP-MW-13S	Abandoned	Pottsville Fm - Pratt Group	33.6117	-87.05215	434.76	437.74	43.3	404.83	394.83	10	4/12/2016
MR-AP-MW-14	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	33.61349	-87.05261	427.57	430.69	54.5	386.56	376.56	10	2/26/2016
MR-AP-MW-27H	Abandoned	Pottsville Fm - Unassigned	33.61184	-87.0507	472.42	475.06	388.0	96.66	86.66	10	12/3/2019
MR-AP-MW-29H	Abandoned	Pottsville Fm - Unassigned	33.60754	-87.04928	512.14	514.96	383.5	141.06	131.06	10	12/4/2019
MR-AP-MW-36H	Abandoned	Pottsville Fm - Unassigned	33.60685	-87.04904	536.84	539.44	312.5	246.54	226.54	20	12/6/2019

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 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 Miller Ash Pond
09/25/2023 - 12/01/2023

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	1-160	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	2-160	mg/L
TDS	NA	NA	PPT
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	0.001015-0.092365	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	0.125	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 200.7	0.01015	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	1.19-1.59	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. Groundwater Elevations Summary

Plant Miller Ash Pond

Measurement Date		04/18/2023		09/25/2023	
Well	TOC Elevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)
GS-AP-MW-17V	531.45	N/A	N/A	N/A	N/A
GS-AP-MW-8	434.61	N/A	N/A	N/A	N/A
MR-AP-MW-1	473.68	193.43	280.25	194.76	278.92
MR-AP-MW-10	541.74	151.08	390.66	154.71	387.03
MR-AP-MW-11	594.02	233.04	360.98	237.36	356.66
MR-AP-MW-12	504.53	108.51	396.02	112.21	392.32
MR-AP-MW-13DR	457.54	80.86	376.68	83.91	373.63
MR-AP-MW-13SR	457.34	28.12	429.22	34.32	423.02
MR-AP-MW-14R	426.05	15.76	410.29	19.39	406.66
MR-AP-MW-15	413.65	15.94	397.71	18.30	395.35
MR-AP-MW-16	418.55	31.85	386.70	36.98	381.57
MR-AP-MW-17H	276.32	20.94	255.38	21.86	254.46
MR-AP-MW-18H	448.98	165.00	283.98	168.12	280.86
MR-AP-MW-19H	384.23	228.59	155.64	215.81	168.42
MR-AP-MW-19HA	399.93	119.06	280.87	120.18	279.75
MR-AP-MW-2	482.33	202.18	280.15	203.52	278.81
MR-AP-MW-20H	384.31	123.45	260.86	124.78	259.53
MR-AP-MW-20HS	373.18	49.09	324.09	52.72	320.46
MR-AP-MW-21	373.18	20.12	353.06	25.13	348.05
MR-AP-MW-22D	364.49	27.44	337.05	29.93	334.56
MR-AP-MW-22I	364.27	27.86	336.41	30.16	334.11
MR-AP-MW-22S	364.64	14.76	349.88	16.98	347.66
MR-AP-MW-23	352.43	10.56	341.87	13.16	339.27
MR-AP-MW-23A	352.64	10.69	341.95	13.33	339.31
MR-AP-MW-27HR	476.42	105.06	371.36	106.83	369.59
MR-AP-MW-28H	488.34	86.84	401.50	89.76	398.58
MR-AP-MW-2V	480.46	NM	NM	238.69	241.77
MR-AP-MW-30H	586.17	238.66	347.51	241.07	345.10
MR-AP-MW-31H	551.18	233.72	317.46	236.50	314.68
MR-AP-MW-32H	322.22	61.18	261.04	62.32	259.90
MR-AP-MW-33H	321.53	20.76	300.77	24.76	296.77
MR-AP-MW-34H	431.46	151.16	280.3	152.42	279.04
MR-AP-MW-35H	305.12	9.76	295.36	13.09	292.03
MR-AP-MW-36HR	540.50	199.10	341.40	202.02	338.48
MR-AP-MW-37H	440.12	106.03	334.09	108.86	331.26
MR-AP-MW-3D	437.06	116.82	320.24	122.15	314.91
MR-AP-MW-3S	436.27	96.22	340.05	99.88	336.39
MR-AP-MW-3V	438.04	157.18	280.86	162.08	275.96
MR-AP-MW-4	422.47	51.97	370.50	58.82	363.65
MR-AP-MW-4V	422.22	97.49	324.73	102.03	320.19
MR-AP-MW-5	279.22	0.00	Artesian	0.00	Artesian

Notes:

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

(1) Artesian = groundwater elevation above top of casin



Table 3. Groundwater Elevations Summary

Plant Miller Ash Pond
03/06/2023 - 09/25/2023

Measurement Date		04/18/2023		09/25/2023	
Well	TOC Elevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)
MR-AP-MW-6	374.30	11.46	362.84	15.72	358.58
MR-AP-MW-6V	375.95	116.00	259.95	116.95	259.00
MR-AP-MW-7DR	335.44	76.83	258.61	77.86	257.58
MR-AP-MW-7SR	335.65	11.32	324.33	13.90	321.75
MR-AP-MW-9DR	466.12	79.78	386.34	85.56	380.56
MR-AP-MW-9SR	465.60	74.80	390.80	81.78	383.82
MR-AP-PZ-5	279.66	0.00	Artesian	0.00	Artesian

Notes:

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

(1) Artesian = groundwater elevation above top of casin



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Miller Ash Pond
04/18/2023 - 10/10/2023

MR-AP-MW-17H				
Sample Date = 10/10/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.14	0.139	0.72%
Calcium	mg/L	37.7	38	0.79%
Chloride	mg/L	10.1	10.1	0.00%
Fluoride	mg/L	0.163	0.141	14.47%
Sulfate	mg/L	90.1	89.2	1.00%
Barium	mg/L	0.141	0.139	1.43%
Lithium	mg/L	0.113	0.112	0.89%
MR-AP-MW-35H				
Sample Date = 4/18/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	60.3	59.2	1.84%
Chloride	mg/L	2.26	2.28	0.88%
Fluoride	mg/L	0.151	0.146	3.37%
Sulfate	mg/L	197	191	3.09%
Arsenic	mg/L	0.0112	0.0108	3.64%
Barium	mg/L	0.0275	0.028	1.80%
Lithium	mg/L	0.0264	0.0265	0.38%
Sample Date = 10/10/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	77.1	76	1.44%
Chloride	mg/L	2.03	2.08	2.43%
Fluoride	mg/L	0.133	0.131	1.52%
Sulfate	mg/L	194	198	2.04%
Arsenic	mg/L	0.0138	0.0138	0.00%
Barium	mg/L	0.0292	0.0292	0.00%
Lithium	mg/L	0.0279	0.0277	0.72%
MR-AP-MW-22I				
Sample Date = 10/4/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.118	0.118	0.00%
Calcium	mg/L	4.45	4.53	1.78%
Chloride	mg/L	147	144	2.06%
Fluoride	mg/L	0.164	0.176	7.06%
Sulfate	mg/L	11.2	10.8	3.64%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Miller Ash Pond
04/18/2023 - 10/10/2023

MR-AP-MW-22I				
Sample Date = 10/4/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Barium	mg/L	0.101	0.1	1.00%
Lithium	mg/L	0.0605	0.0611	0.99%
MR-AP-MW-22S				
Sample Date = 5/3/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	125	117	6.61%
Chloride	mg/L	123	125	1.61%
Fluoride	mg/L	0.152	0.176	14.63%
Sulfate	mg/L	178	177	0.56%
Arsenic	mg/L	0.00022	0.00029	29.02%
Barium	mg/L	0.0472	0.0501	5.96%
Lithium	mg/L	0.0756	0.0777	2.74%
MR-AP-MW-5				
Sample Date = 4/25/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.961	0.955	0.63%
Calcium	mg/L	229	224	2.21%
Chloride	mg/L	22.2	22.4	0.90%
Fluoride	mg/L	0.424	0.422	0.47%
Sulfate	mg/L	744	732	1.63%
Arsenic	mg/L	0.00879	0.00913	3.80%
Barium	mg/L	0.0182	0.0187	2.71%
Lithium	mg/L	0.243	0.241	0.83%
Molybdenum	mg/L	0.0934	0.0935	0.11%
Sample Date = 10/4/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	1.02	1.02	0.00%
Calcium	mg/L	215	228	5.87%
Chloride	mg/L	21.8	21.1	3.26%
Fluoride	mg/L	0.397	0.434	8.91%
Sulfate	mg/L	729	707	3.06%
Arsenic	mg/L	0.0093	0.00934	0.43%
Barium	mg/L	0.0189	0.0185	2.14%
Lithium	mg/L	0.203	0.203	0.00%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Miller Ash Pond
04/18/2023 - 10/10/2023

MR-AP-MW-5				
Sample Date = 10/4/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Molybdenum	mg/L	0.101	0.105	3.88%
MR-AP-MW-15				
Sample Date = 4/19/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	1.36	1.36	0.00%
Calcium	mg/L	66.4	61.6	7.50%
Chloride	mg/L	17.9	18	0.56%
Sulfate	mg/L	281	280	0.36%
Arsenic	mg/L	0.00073	0.00078	6.51%
Barium	mg/L	0.0236	0.023	2.58%
Cobalt	mg/L	0.0118	0.0126	6.56%
Lithium	mg/L	0.0226	0.0219	3.15%
MR-AP-MW-20HS				
Sample Date = 4/19/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.384	0.387	0.78%
Calcium	mg/L	79.7	81.9	2.72%
Chloride	mg/L	32.7	33.1	1.22%
Sulfate	mg/L	242	239	1.25%
Arsenic	mg/L	0.00037	0.00026	32.65%
Barium	mg/L	0.0283	0.0267	5.82%
Cobalt	mg/L	0.00025	0.00024	3.24%
Lithium	mg/L	0.0415	0.0425	2.38%
Sample Date = 10/3/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.334	0.334	0.00%
Calcium	mg/L	78.9	80.3	1.76%
Chloride	mg/L	30.1	30.4	0.99%
Sulfate	mg/L	203	204	0.49%
Arsenic	mg/L	0.00036	0.00036	1.67%
Barium	mg/L	0.0352	0.0356	1.13%
Lithium	mg/L	0.0379	0.0374	1.33%



Table 4b. - Field QC: Blank Detections

Plant Miller Ash Pond
04/24/2023 - 10/11/2023

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
05/01/2023	EB-1	Barium	0.00052 J	mg/L	0.00051
10/11/2023	EB-1	Chromium	0.00027 J	mg/L	0.0002
05/02/2023	FB-5	Chromium	0.00031 J	mg/L	0.0002
05/01/2023	EB-1	Chromium	0.00027 J	mg/L	0.0002

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 5. Summary of Background Levels and Groundwater Protection Standards

Plant Miller Ash Pond

Appendix IV Analytes			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.00645	0.01
Barium	mg/L	12.8	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	0.00362	0.006
Fluoride	mg/L	0.436	4
Lead	mg/L	0.00189	0.015
Lithium	mg/L	1.3	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0282	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002
Combined Radium 226 + 228	pCi/L	7.76	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 Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Turbidity NTU	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C
Upgradient	GS-AP-MW-17V	03/22/2023	1.95	545.07	0.07	-157.18	7.61	18.59
Upgradient	GS-AP-MW-8	03/27/2023	1.1	130.02	1.63	189.13	5.82	22.43
Upgradient	MR-AP-MW-21	05/02/2023	3.85	867.8	0.33	-233.34	7.65	23.19
Upgradient	MR-AP-MW-22D	05/03/2023	3.09	2292.4	0.48	-195.77	8.76	18.93
Upgradient	MR-AP-MW-22I	05/03/2023	2.89	594.71	0	-213.9	8.35	18.26
Upgradient	MR-AP-MW-22S	05/03/2023	2.52	1204.63	0.1	-79.14	6.83	17.89
Upgradient	MR-AP-MW-23	05/01/2023	4.05	8018.49	0.35	-158.25	7.59	20.47
Upgradient	MR-AP-MW-23A	05/01/2023	2.66	8140.54	0.62	-112.9	7.4	20.23
Downgradient	MR-AP-MW-1	05/02/2023	6.16	1187.38	0	-304.36	8.6	18.33
Downgradient	MR-AP-MW-10	05/03/2023	4.7	2561.46	0.27	-107.75	7.15	15.77
Downgradient	MR-AP-MW-11	05/03/2023	2.97	1614.87	0.7	-41.9	6.52	19.49
Downgradient	MR-AP-MW-12	05/03/2023	3.9	1489.23	0.34	-14.34	6.74	19.74
Downgradient	MR-AP-MW-13DR	04/18/2023	1.15	914.98	2.38	-68.58	7.07	21.26
Downgradient	MR-AP-MW-13SR	04/18/2023	2.51	1355.99	1.1	172.47	5.16	18.95
Downgradient	MR-AP-MW-14R	05/02/2023	3.3	313.68	0.34	-35.45	6.4	19.98
Downgradient	MR-AP-MW-15	04/19/2023	4.59	777.28	0.24	0.24	6.33	19.78
Downgradient	MR-AP-MW-16	04/19/2023	0.74	1102.49	0.46	104.07	6.35	19.31
Downgradient	MR-AP-MW-2	05/02/2023	1.16	2693.21	0.21	-52.02	6.12	18.63
Downgradient	MR-AP-MW-3D	05/02/2023	7.86	851.31	0.57	-62.51	6.82	20.11
Downgradient	MR-AP-MW-3S	05/02/2023	8.34	1033.25	0.48	-134.28	9.28	19.37

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
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. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Miller Ash Pond
03/22/2023 - 05/03/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Turbidity NTU	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C
Downgradient	MR-AP-MW-4	05/02/2023	4.78	882.22	0.23	117.1	6.07	19.44
Downgradient	MR-AP-MW-5	04/25/2023	1.87	1502.91	0.12	-211.64	7.37	17.3
Downgradient	MR-AP-MW-6	04/25/2023	9.42	1098.21	0.21	-31.47	6.06	19.21
Downgradient	MR-AP-MW-7DR	04/24/2023	2.1	1170.75	0.17	-34.52	6.7	16.57
Downgradient	MR-AP-MW-7SR	04/24/2023	4.91	908.65	0.11	-27.9	6.54	16.41
Downgradient	MR-AP-MW-9DR	05/03/2023	2.51	1396.25	0.18	-84.51	6.46	17.5
Downgradient	MR-AP-MW-9SR	05/03/2023	3.6	962.75	0.18	5.7	6.34	18.47
Downgradient	MR-AP-PZ-5	04/25/2023	3.92	1127.06	0.21	-304.67	8.46	16.97
Vert. Delineation	MR-AP-MW-4V	05/02/2023	8.35	841.74	0.4	1.71	6.59	18.27
Vert. Delineation	MR-AP-MW-6V	04/24/2023	9.34	981.13	8.46	57.45	7.98	21.78
Horiz. Delineation	MR-AP-MW-17H	04/19/2023	4.2	628.54	0.42	-34.84	6.98	16.76
Horiz. Delineation	MR-AP-MW-18H	05/02/2023	1.85	653.68	1	-109.66	7.52	19.31
Horiz. Delineation	MR-AP-MW-19HA	05/01/2023	0.95	2065.78	0.24	-272.35	8.02	18.91
Horiz. Delineation	MR-AP-MW-20H	04/19/2023	2.8	1481.02	1.12	-109.73	7.3	20.99
Horiz. Delineation	MR-AP-MW-20HS	04/19/2023	1.56	708.04	0.14	-59.57	6.62	18.01
Horiz. Delineation	MR-AP-MW-27HR	04/25/2023	1.24	589.79	0.57	-40.6	7.13	18.14
Horiz. Delineation	MR-AP-MW-28H	04/19/2023	2.75	518.24	1.15	-10.12	6.81	22.45
Horiz. Delineation	MR-AP-MW-30H	04/26/2023	3.39	1575.26	0.76	-39.81	6.77	17.43
Horiz. Delineation	MR-AP-MW-31H	04/24/2023	9.49	1104.3	2.09	-26.68	6.98	18.02
Horiz. Delineation	MR-AP-MW-32H	04/19/2023	3.98	415.16	3.3	-58.56	7.28	24.66

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- 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.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Miller Ash Pond
03/22/2023 - 05/03/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Turbidity NTU	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C
Horiz. Delineation	MR-AP-MW-33H	04/25/2023	6.59	1360.53	0.42	-8.96	6.56	18.07
Horiz. Delineation	MR-AP-MW-34H	05/02/2023	0.85	1608.47	0.12	-273.16	7.87	16.85
Horiz. Delineation	MR-AP-MW-35H	04/18/2023	2.76	609.04	0.21	-11.7	6.57	19.32
Horiz. Delineation	MR-AP-MW-36HR	04/25/2023	1.47	3215.84	0.58	-56.99	7.22	17.88
Horiz. Delineation	MR-AP-MW-37H	04/18/2023	2.13	486.84	0.18	-86.89	7.33	16.98

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
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. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Upgradient	GS-AP-MW-17V	03/22/2023	0.0379 J	29.6	2.8	0.198	7.61	10.6
Upgradient	GS-AP-MW-8	03/27/2023	<0.03	4.77	4.17	0.112 J	5.82	4.41
Upgradient	MR-AP-MW-21	05/02/2023	0.0986 J	58	21	0.223	7.65	141
Upgradient	MR-AP-MW-22D	05/03/2023	0.118	30.6	523	0.334	8.76	277
Upgradient	MR-AP-MW-22I	05/03/2023	0.12	2.61	32.9	0.227	8.35	21
Upgradient	MR-AP-MW-22S	05/03/2023	0.0685 J	125	123	0.152	6.83	178
Upgradient	MR-AP-MW-23	05/01/2023	0.726	143	2600	0.371	7.59	3.55
Upgradient	MR-AP-MW-23A	05/01/2023	0.659	138	2670	0.412	7.4	52.3
Downgradient	MR-AP-MW-1	05/02/2023	0.0572 J	130	9.27	0.181	8.6	445
Downgradient	MR-AP-MW-10	05/03/2023	6.84	118	7.08	0.902	7.15	1250
Downgradient	MR-AP-MW-11	05/03/2023	0.0402 J	231	6.53	0.172	6.52	716
Downgradient	MR-AP-MW-12	05/03/2023	5.38	30.3	5.56	1.18	6.74	513
Downgradient	MR-AP-MW-13DR	04/18/2023	0.0492 J	67.9	65.5	0.264	7.07	178
Downgradient	MR-AP-MW-13SR	04/18/2023	0.04 J	65	4.62	0.124 J	5.16	718
Downgradient	MR-AP-MW-14R	05/02/2023	0.0761 J	47.5	8.39	0.167	6.4	49.4
Downgradient	MR-AP-MW-15	04/19/2023	1.36	66.4	17.9	0.119 J	6.33	281
Downgradient	MR-AP-MW-16	04/19/2023	2.18	158	5.39	0.16	6.35	553
Downgradient	MR-AP-MW-2	05/02/2023	0.216	251	4.85	0.321	6.12	1570
Downgradient	MR-AP-MW-3D	05/02/2023	0.324	94.5	6.52	0.348	6.82	264
Downgradient	MR-AP-MW-3S	05/02/2023	0.245	8.78	84.3	0.311	9.28	161
Downgradient	MR-AP-MW-4	05/02/2023	0.382	146	19.6	0.17	6.07	368

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Downgradient	MR-AP-MW-5	04/25/2023	0.961	229	22.2	0.424	7.37	744
Downgradient	MR-AP-MW-6	04/25/2023	0.865	147	32.7	0.0863 J	6.06	549
Downgradient	MR-AP-MW-7DR	04/24/2023	0.746	133	52.6	0.115 J	6.7	421
Downgradient	MR-AP-MW-7SR	04/24/2023	0.672	96.4	24	0.195	6.54	293
Downgradient	MR-AP-MW-9DR	05/03/2023	0.272	180	9.38	0.281	6.46	650
Downgradient	MR-AP-MW-9SR	05/03/2023	0.111	124	2.93	0.138	6.34	343
Downgradient	MR-AP-PZ-5	04/25/2023	0.249	5.85	17.1	2.23	8.46	6.92
Vert. Delineation	MR-AP-MW-4V	05/02/2023	0.33	108	39.2	0.257	6.59	306
Vert. Delineation	MR-AP-MW-6V	04/24/2023	0.35	91.4	55.3	0.185	7.98	233
Horiz. Delineation	MR-AP-MW-17H	04/19/2023	0.0834 J	40.8	6.4	0.141	6.98	56.1
Horiz. Delineation	MR-AP-MW-18H	05/02/2023	0.172	3.04	4.3	0.284	7.52	111
Horiz. Delineation	MR-AP-MW-19HA	05/01/2023	0.162	14.2	204	2.07	8.02	142
Horiz. Delineation	MR-AP-MW-20H	04/19/2023	0.864	197	26.8	0.32	7.3	709
Horiz. Delineation	MR-AP-MW-20HS	04/19/2023	0.384	79.7	32.7	0.0718 J	6.62	242
Horiz. Delineation	MR-AP-MW-27HR	04/25/2023	<0.03	54.6	59.4	0.147	7.13	114
Horiz. Delineation	MR-AP-MW-28H	04/19/2023	0.227	46.5	7.37	0.147	6.81	80.4
Horiz. Delineation	MR-AP-MW-30H	04/26/2023	<0.03	206	58.4	0.142	6.77	710
Horiz. Delineation	MR-AP-MW-31H	04/24/2023	0.0323 J	125	13.6	0.133	6.98	396
Horiz. Delineation	MR-AP-MW-32H	04/19/2023	<0.03	56.6	8.09	0.135	7.28	21.2
Horiz. Delineation	MR-AP-MW-33H	04/25/2023	0.851	220	21.4	0.221	6.56	732
Horiz. Delineation	MR-AP-MW-34H	05/02/2023	0.127	14.9	108	0.4	7.87	137

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Miller Ash Pond
03/22/2023 - 05/03/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Horiz. Delineation	MR-AP-MW-35H	04/18/2023	<0.03	60.3	2.26	0.151	6.57	197
Horiz. Delineation	MR-AP-MW-36HR	04/25/2023	0.0994 J	34.7	405	0.295	7.22	519
Horiz. Delineation	MR-AP-MW-37H	04/18/2023	<0.03	38.1	11.2	0.185	7.33	35.4

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6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	GS-AP-MW-17V	03/22/2023	<0.00071	0.000293	0.289	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.198
Upgradient	GS-AP-MW-8	03/27/2023	<0.00071	0.000162 J	0.00644	<0.000406	<6.8e-005	0.000761 J	0.000254	0.112 J
Upgradient	MR-AP-MW-21	05/02/2023	<0.00071	0.00323	0.189	<0.000406	<6.8e-005	<0.000203	0.000109 J	0.223
Upgradient	MR-AP-MW-22D	05/03/2023	0.000764 J	0.00258	0.183	<0.000406	<6.8e-005	0.000377 J	<6.8e-005	0.334
Upgradient	MR-AP-MW-22I	05/03/2023	<0.00071	0.000154 J	0.036	<0.000406	<6.8e-005	0.000244 J	<6.8e-005	0.227
Upgradient	MR-AP-MW-22S	05/03/2023	<0.00071	0.000218	0.0472	<0.000406	<6.8e-005	0.00025 J	<6.8e-005	0.152
Upgradient	MR-AP-MW-23	05/01/2023	0.00113	0.000474	12.8	<0.000406	<6.8e-005	0.000248 J	8.77e-005 J	0.371
Upgradient	MR-AP-MW-23A	05/01/2023	0.00148	0.00459	6.16	<0.000406	<6.8e-005	0.000286 J	0.000792	0.412
Downgradient	MR-AP-MW-1	05/02/2023	0.0255	0.00202	0.148	<0.000406	<6.8e-005	0.0042	0.000545	0.181
Downgradient	MR-AP-MW-10	05/03/2023	<0.00071	0.0241	0.0162	<0.000406	<6.8e-005	0.000411 J	0.00107	0.902
Downgradient	MR-AP-MW-11	05/03/2023	<0.00071	<0.000112	0.0218	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.172
Downgradient	MR-AP-MW-12	05/03/2023	<0.00071	0.00828	0.0176	<0.000406	<6.8e-005	0.00034 J	0.000717	1.18
Downgradient	MR-AP-MW-13DR	04/18/2023	<0.00071	0.00066	0.0494	<0.000406	<6.8e-005	0.000323 J	0.000767	0.264
Downgradient	MR-AP-MW-13SR	04/18/2023	<0.00071	0.00135	0.0163	0.00244	0.000563	<0.000203	0.0819	0.124 J
Downgradient	MR-AP-MW-14R	05/02/2023	<0.00071	0.000139 J	0.101	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.167
Downgradient	MR-AP-MW-15	04/19/2023	<0.00071	0.000728	0.0236	<0.000406	<6.8e-005	<0.000203	0.0118	0.119 J
Downgradient	MR-AP-MW-16	04/19/2023	<0.00071	0.000509	0.0189	<0.000406	<6.8e-005	<0.000203	0.0024	0.16
Downgradient	MR-AP-MW-2	05/02/2023	<0.00071	0.00514	0.0175	<0.000406	<6.8e-005	<0.000203	0.0538	0.321
Downgradient	MR-AP-MW-3D	05/02/2023	<0.00071	0.0126	0.0292	<0.000406	<6.8e-005	<0.000203	0.00405	0.348

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Upgradient	GS-AP-MW-17V	03/22/2023	<6.8e-005	0.0507	<0.0003	<0.005075	<0.000508	<6.8e-005	0.707 U
Upgradient	GS-AP-MW-8	03/27/2023	<6.8e-005	0.00968 J	<0.0003	<0.005075	<0.000508	<6.8e-005	0.142 U
Upgradient	MR-AP-MW-21	05/02/2023	<6.8e-005	0.0448	<0.0003	<0.005075	<0.000508	<6.8e-005	1.11 U
Upgradient	MR-AP-MW-22D	05/03/2023	<6.8e-005	0.17	<0.0003	0.0282	<0.000508	<6.8e-005	0.095 U
Upgradient	MR-AP-MW-22I	05/03/2023	<6.8e-005	0.0503	<0.0003	<0.005075	<0.000508	<6.8e-005	0.833 U
Upgradient	MR-AP-MW-22S	05/03/2023	<6.8e-005	0.0756	<0.0003	<0.005075	<0.000508	<6.8e-005	0.643 U
Upgradient	MR-AP-MW-23	05/01/2023	<6.8e-005	1.3	<0.0003	<0.005075	<0.000508	<6.8e-005	7.55
Upgradient	MR-AP-MW-23A	05/01/2023	<6.8e-005	1.18	<0.0003	0.00625 J	<0.000508	<6.8e-005	1.37
Downgradient	MR-AP-MW-1	05/02/2023	<6.8e-005	0.206	<0.0003	<0.005075	<0.000508	<6.8e-005	1.38
Downgradient	MR-AP-MW-10	05/03/2023	<6.8e-005	0.354	<0.0003	0.665	<0.000508	<6.8e-005	0.952 U
Downgradient	MR-AP-MW-11	05/03/2023	<6.8e-005	0.144	<0.0003	<0.005075	<0.000508	<6.8e-005	0.618 U
Downgradient	MR-AP-MW-12	05/03/2023	<6.8e-005	0.077	<0.0003	0.383	<0.000508	<6.8e-005	0.659 U
Downgradient	MR-AP-MW-13DR	04/18/2023	<6.8e-005	0.0382	<0.0003	<0.005075	<0.000508	<6.8e-005	0.555 U
Downgradient	MR-AP-MW-13SR	04/18/2023	0.00101	0.0199 J	<0.0003	<0.005075	<0.000508	0.000165 J	0.695 U
Downgradient	MR-AP-MW-14R	05/02/2023	<6.8e-005	0.0206	<0.0003	<0.005075	<0.000508	<6.8e-005	0.502 U
Downgradient	MR-AP-MW-15	04/19/2023	<6.8e-005	0.0226	<0.0003	<0.005075	<0.000508	<6.8e-005	1.05 U
Downgradient	MR-AP-MW-16	04/19/2023	<6.8e-005	0.0713	<0.0003	0.0499	0.00616	<6.8e-005	0.679 U
Downgradient	MR-AP-MW-2	05/02/2023	<6.8e-005	0.273	<0.0003	<0.005075	<0.000508	<6.8e-005	0.831 U
Downgradient	MR-AP-MW-3D	05/02/2023	<6.8e-005	0.104	<0.0003	0.0293	<0.000508	<6.8e-005	0.857 U

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Downgradient	MR-AP-MW-3S	05/02/2023	<0.00071	0.00114	0.149	<0.000406	<6.8e-005	0.000885 J	0.00012 J	0.311
Downgradient	MR-AP-MW-4	05/02/2023	<0.00071	0.000146 J	0.0178	<0.000406	<6.8e-005	<0.000203	0.00283	0.17
Downgradient	MR-AP-MW-5	04/25/2023	<0.00071	0.00879	0.0182	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.424
Downgradient	MR-AP-MW-6	04/25/2023	<0.00071	<0.000112	0.0235	<0.000406	<6.8e-005	<0.000203	0.00983	0.0863 J
Downgradient	MR-AP-MW-7DR	04/24/2023	<0.00071	0.000465	0.0277	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.115 J
Downgradient	MR-AP-MW-7SR	04/24/2023	<0.00071	0.00156	0.0394	<0.000406	<6.8e-005	<0.000203	0.00152	0.195
Downgradient	MR-AP-MW-9DR	05/03/2023	<0.00071	0.000541	0.0217	<0.000406	<6.8e-005	<0.000203	0.000156 J	0.281
Downgradient	MR-AP-MW-9SR	05/03/2023	<0.00071	0.000634	0.0209	<0.000406	<6.8e-005	<0.000203	0.0004	0.138
Downgradient	MR-AP-PZ-5	04/25/2023	<0.00071	0.000191 J	0.217	<0.000406	<6.8e-005	<0.000203	<6.8e-005	2.23
Vert. Delineation	MR-AP-MW-4V	05/02/2023	<0.00071	0.000706	0.0316	<0.000406	<6.8e-005	0.000262 J	0.00404	0.257
Vert. Delineation	MR-AP-MW-6V	04/24/2023	<0.00071	0.0012	0.0301	<0.000406	<6.8e-005	0.000232 J	0.000254	0.185
Horiz. Delineation	MR-AP-MW-17H	04/19/2023	<0.00071	<0.000112	0.628	<0.000406	<6.8e-005	<0.000203	9e-005 J	0.141
Horiz. Delineation	MR-AP-MW-18H	05/02/2023	<0.00071	0.000179 J	0.0402	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.284
Horiz. Delineation	MR-AP-MW-19HA	05/01/2023	<0.00071	0.000273	0.122	<0.000406	<6.8e-005	0.000252 J	<6.8e-005	2.07
Horiz. Delineation	MR-AP-MW-20H	04/19/2023	<0.00071	0.000878	0.0411	<0.000406	<6.8e-005	0.000211 J	0.000959	0.32
Horiz. Delineation	MR-AP-MW-20HS	04/19/2023	<0.00071	0.000367	0.0283	<0.000406	<6.8e-005	<0.000203	0.000251	0.0718 J
Horiz. Delineation	MR-AP-MW-27HR	04/25/2023	<0.00071	0.000307	0.095	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.147
Horiz. Delineation	MR-AP-MW-28H	04/19/2023	<0.00071	0.000934	0.0436	<0.000406	<6.8e-005	<0.000203	0.00016 J	0.147
Horiz. Delineation	MR-AP-MW-30H	04/26/2023	<0.00071	0.000359	0.0195	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.142
Horiz. Delineation	MR-AP-MW-31H	04/24/2023	<0.00071	0.000636	0.035	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.133

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Downgradient	MR-AP-MW-3S	05/02/2023	<6.8e-005	0.274	<0.0003	0.0661	<0.000508	<6.8e-005	1.05 U
Downgradient	MR-AP-MW-4	05/02/2023	<6.8e-005	0.064	<0.0003	<0.005075	0.000539 J	<6.8e-005	0.203 U
Downgradient	MR-AP-MW-5	04/25/2023	<6.8e-005	0.243	<0.0003	0.0934	<0.000508	<6.8e-005	1.49
Downgradient	MR-AP-MW-6	04/25/2023	<6.8e-005	0.0898	<0.0003	<0.005075	<0.000508	<6.8e-005	0.257 U
Downgradient	MR-AP-MW-7DR	04/24/2023	<6.8e-005	0.124	<0.0003	<0.005075	<0.000508	<6.8e-005	0.863 U
Downgradient	MR-AP-MW-7SR	04/24/2023	<6.8e-005	0.173	<0.0003	0.0282	<0.000508	<6.8e-005	0.804 U
Downgradient	MR-AP-MW-9DR	05/03/2023	<6.8e-005	0.071	<0.0003	<0.005075	<0.000508	<6.8e-005	0.453 U
Downgradient	MR-AP-MW-9SR	05/03/2023	<6.8e-005	0.0464	<0.0003	<0.005075	<0.000508	<6.8e-005	0.709 U
Downgradient	MR-AP-PZ-5	04/25/2023	<6.8e-005	0.158	<0.0003	<0.005075	<0.000508	<6.8e-005	0.537 U
Vert. Delineation	MR-AP-MW-4V	05/02/2023	0.000167 J	0.0434	<0.0003	0.00673 J	0.000535 J	<6.8e-005	0.838 U
Vert. Delineation	MR-AP-MW-6V	04/24/2023	0.000991	0.0866	<0.0003	0.00758 J	<0.000508	<6.8e-005	1.27
Horiz. Delineation	MR-AP-MW-17H	04/19/2023	<6.8e-005	0.0663	<0.0003	<0.005075	<0.000508	<6.8e-005	1.19
Horiz. Delineation	MR-AP-MW-18H	05/02/2023	0.000117 J	0.112	<0.0003	0.013	<0.000508	<6.8e-005	0.349 U
Horiz. Delineation	MR-AP-MW-19HA	05/01/2023	<6.8e-005	0.195	<0.0003	0.0055 J	<0.000508	<6.8e-005	0.546 U
Horiz. Delineation	MR-AP-MW-20H	04/19/2023	<6.8e-005	0.212	<0.0003	0.075	<0.000508	<6.8e-005	1.07
Horiz. Delineation	MR-AP-MW-20HS	04/19/2023	<6.8e-005	0.0415	<0.0003	<0.005075	<0.000508	<6.8e-005	0.61 U
Horiz. Delineation	MR-AP-MW-27HR	04/25/2023	<6.8e-005	0.0489	<0.0003	0.00646 J	<0.000508	<6.8e-005	0.577 U
Horiz. Delineation	MR-AP-MW-28H	04/19/2023	<6.8e-005	0.0487	<0.0003	<0.005075	<0.000508	<6.8e-005	0.125 U
Horiz. Delineation	MR-AP-MW-30H	04/26/2023	<6.8e-005	0.107	<0.0003	<0.005075	<0.000508	<6.8e-005	0.521 U
Horiz. Delineation	MR-AP-MW-31H	04/24/2023	<6.8e-005	0.137	<0.0003	<0.005075	<0.000508	<6.8e-005	0.278 U

Notes:

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Analytical Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Horiz. Delineation	MR-AP-MW-32H	04/19/2023	<0.00071	0.00091	0.401	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.135
Horiz. Delineation	MR-AP-MW-33H	04/25/2023	<0.00071	0.00425	0.0311	<0.000406	<6.8e-005	<0.000203	0.00778	0.221
Horiz. Delineation	MR-AP-MW-34H	05/02/2023	<0.00071	0.00211	0.0437	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.4
Horiz. Delineation	MR-AP-MW-35H	04/18/2023	<0.00071	0.0112	0.0275	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.151
Horiz. Delineation	MR-AP-MW-36HR	04/25/2023	<0.00071	0.00204	0.0293	<0.000406	<6.8e-005	0.000752 J	<6.8e-005	0.295
Horiz. Delineation	MR-AP-MW-37H	04/18/2023	0.00079 J	0.00073	0.0938	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.185

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Miller Ash Pond
03/22/2023 - 05/03/2023**

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Horiz. Delineation	MR-AP-MW-32H	04/19/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.565 U
Horiz. Delineation	MR-AP-MW-33H	04/25/2023	<6.8e-005	0.174	<0.0003	0.0256	<0.000508	<6.8e-005	0.735 U
Horiz. Delineation	MR-AP-MW-34H	05/02/2023	<6.8e-005	0.163	<0.0003	0.00568 J	<0.000508	<6.8e-005	0.915 U
Horiz. Delineation	MR-AP-MW-35H	04/18/2023	7.4e-005 J	0.0264	<0.0003	<0.005075	<0.000508	<6.8e-005	0.613 U
Horiz. Delineation	MR-AP-MW-36HR	04/25/2023	<6.8e-005	0.373	<0.0003	0.0996	<0.000508	<6.8e-005	0.619 U
Horiz. Delineation	MR-AP-MW-37H	04/18/2023	<6.8e-005	0.0583	<0.0003	<0.005075	<0.000508	<6.8e-005	0.497 U

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
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6. NC = value not detected with alkalinity calculation

Analytical Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Sulfide mg/L	Chloride mg/L
Upgradient	GS-AP-MW-17V	03/22/2023	23.1	10.8	4.17	305	2.21	303	0	2.8
Upgradient	GS-AP-MW-8	03/27/2023	37.2	17.4	<1	60.9	NC	60.9	0	4.17
Upgradient	MR-AP-MW-21	05/02/2023	18.6	8.69	1.09 J	270	2.63	267	1	21
Upgradient	MR-AP-MW-22D	05/03/2023	15.6	7.29	3.78	122	5.24	117	2	523
Upgradient	MR-AP-MW-22I	05/03/2023	11.5	5.37	<1	259	6.25	253	1	32.9
Upgradient	MR-AP-MW-22S	05/03/2023	30.8	14.4	<1	230	NC	230	0	123
Upgradient	MR-AP-MW-23	05/01/2023	18.7	8.72	<1	302	1.26	301	0	2600
Upgradient	MR-AP-MW-23A	05/01/2023	17.7	8.29	<1	244	0.974	243	0	2670
Downgradient	MR-AP-MW-1	05/02/2023	14.8	6.93	1.71 J	207	1.93	205	0	9.27
Downgradient	MR-AP-MW-10	05/03/2023	17.4	8.13	1.2 J	154	NC	154	0	7.08
Downgradient	MR-AP-MW-11	05/03/2023	16	7.48	<1	193	NC	193	0	6.53
Downgradient	MR-AP-MW-12	05/03/2023	16	7.46	1.74 J	264	NC	264	0	5.56
Downgradient	MR-AP-MW-13DR	04/18/2023	22	10.3	<1	190	0.55	189	0	65.5
Downgradient	MR-AP-MW-13SR	04/18/2023	18.6	8.67	1.28 J	14.9	NC	14.9	0	4.62
Downgradient	MR-AP-MW-14R	05/02/2023	32.7	15.3	<1	129	NC	129	0	8.39
Downgradient	MR-AP-MW-15	04/19/2023	31.9	14.9	<1	51.3	NC	51.3	0	17.9
Downgradient	MR-AP-MW-16	04/19/2023	6.31	2.95	1.18 J	55.5	NC	55.5	0	5.39
Downgradient	MR-AP-MW-2	05/02/2023	22.9	10.7	1.42 J	9.84	NC	9.84	0	4.85
Downgradient	MR-AP-MW-3D	05/02/2023	12.3	5.76	1.67 J	197	NC	197	0	6.52
Downgradient	MR-AP-MW-3S	05/02/2023	9.97	4.66	2.24	237	25.5	211	0	84.3

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- NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Miller Ash Pond
03/22/2023 - 05/03/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Nitrate Nitrite mg/L as N	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L
Upgradient	GS-AP-MW-17V	03/22/2023	<0.2	12.3	0.0237	84.1	10.6	<0.009135	29.6	0.828
Upgradient	GS-AP-MW-8	03/27/2023	0.221 J	8.34	0.0617	11.2	4.41	0.0409 J	4.77	0.251
Upgradient	MR-AP-MW-21	05/02/2023	<0.2	15.4	0.0767	124	141	0.0143 J	58	0.196
Upgradient	MR-AP-MW-22D	05/03/2023	0.758	4.15	0.0166	528	277	0.0278 J	30.6	0.0683
Upgradient	MR-AP-MW-22I	05/03/2023	<0.2	0.719	0.00562	140	21	0.0451 J	2.61	0.0325 J
Upgradient	MR-AP-MW-22S	05/03/2023	<0.2	55.5	0.228	89.2	178	<0.009135	125	1.69
Upgradient	MR-AP-MW-23	05/01/2023	<0.2	50.4	0.0932	1390	3.55	0.0205 J	143	1.71
Upgradient	MR-AP-MW-23A	05/01/2023	1.06	47.6	0.0759	1400	52.3	<0.009135	138	0.513
Downgradient	MR-AP-MW-1	05/02/2023	<0.2	27.2	0.122	164	445	0.013 J	130	6.29
Downgradient	MR-AP-MW-10	05/03/2023	<0.2	59.6	0.849	411	1250	<0.009135	118	2.32
Downgradient	MR-AP-MW-11	05/03/2023	<0.2	112	0.119	71.5	716	<0.009135	231	7.57
Downgradient	MR-AP-MW-12	05/03/2023	<0.2	16.4	0.382	312	513	<0.009135	30.3	0.967
Downgradient	MR-AP-MW-13DR	04/18/2023	0.448	29.2	0.0755	79.5	178	<0.009135	67.9	0.307
Downgradient	MR-AP-MW-13SR	04/18/2023	<0.2	142	2.32	24.2	718	0.871	65	12.3
Downgradient	MR-AP-MW-14R	05/02/2023	<0.2	16.2	0.183	12.1	49.4	0.00935 J	47.5	3.53
Downgradient	MR-AP-MW-15	04/19/2023	<0.2	21	1.4	53.3	281	<0.009135	66.4	15.9
Downgradient	MR-AP-MW-16	04/19/2023	0.673	20.1	0.677	54.1	553	0.0192 J	158	0.33
Downgradient	MR-AP-MW-2	05/02/2023	0.387	149	3.51	122	1570	0.0216 J	251	199
Downgradient	MR-AP-MW-3D	05/02/2023	<0.2	22.9	1.09	76.1	264	0.0136 J	94.5	2.8
Downgradient	MR-AP-MW-3S	05/02/2023	<0.2	1.5	0.00733	260	161	0.041 J	8.78	0.0528

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- NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Miller Ash Pond
03/22/2023 - 05/03/2023**

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Potassium mg/L
Upgradient	GS-AP-MW-17V	03/22/2023	2.03
Upgradient	GS-AP-MW-8	03/27/2023	0.801
Upgradient	MR-AP-MW-21	05/02/2023	4.36
Upgradient	MR-AP-MW-22D	05/03/2023	10.5
Upgradient	MR-AP-MW-22I	05/03/2023	2.95
Upgradient	MR-AP-MW-22S	05/03/2023	1.86
Upgradient	MR-AP-MW-23	05/01/2023	6.04
Upgradient	MR-AP-MW-23A	05/01/2023	8.57
Downgradient	MR-AP-MW-1	05/02/2023	6.2
Downgradient	MR-AP-MW-10	05/03/2023	11.4
Downgradient	MR-AP-MW-11	05/03/2023	3.57
Downgradient	MR-AP-MW-12	05/03/2023	7.24
Downgradient	MR-AP-MW-13DR	04/18/2023	2.78
Downgradient	MR-AP-MW-13SR	04/18/2023	3.83
Downgradient	MR-AP-MW-14R	05/02/2023	1.19
Downgradient	MR-AP-MW-15	04/19/2023	2.16
Downgradient	MR-AP-MW-16	04/19/2023	9.78
Downgradient	MR-AP-MW-2	05/02/2023	4.39
Downgradient	MR-AP-MW-3D	05/02/2023	5.66
Downgradient	MR-AP-MW-3S	05/02/2023	3.27

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Sulfide mg/L	Chloride mg/L
Downgradient	MR-AP-MW-4	05/02/2023	14	6.52	<1	94.8	NC	94.8	0	19.6
Downgradient	MR-AP-MW-5	04/25/2023	8.41	3.93	1.54 J	85.1	NC	84.9	0	22.2
Downgradient	MR-AP-MW-6	04/25/2023	16.4	7.67	<1	36.1	NC	36.1	0	32.7
Downgradient	MR-AP-MW-7DR	04/24/2023	14.4	6.75	1.64 J	146	NC	146	0	52.6
Downgradient	MR-AP-MW-7SR	04/24/2023	21.8	10.2	1.86 J	180	NC	180	0	24
Downgradient	MR-AP-MW-9DR	05/03/2023	29.7	13.9	<1	165	NC	165	0	9.38
Downgradient	MR-AP-MW-9SR	05/03/2023	27.4	12.8	<1	205	NC	205	0	2.93
Downgradient	MR-AP-PZ-5	04/25/2023	9.46	4.42	2.27	589	13	576	9	17.1
Vert. Delineation	MR-AP-MW-4V	05/02/2023	13.6	6.34	2.38	61.6	NC	61.6	0	39.2
Vert. Delineation	MR-AP-MW-6V	04/24/2023	16.1	7.52	1.26 J	207	3.64	203	0	55.3
Horiz. Delineation	MR-AP-MW-17H	04/19/2023	28	13.1	<1	303	1.83	301	0	6.4
Horiz. Delineation	MR-AP-MW-18H	05/02/2023	11	5.13	1.57 J	195	1.48	193	0	4.3
Horiz. Delineation	MR-AP-MW-19HA	05/01/2023	13.6	6.34	6.89	566	7.59	558	9	204
Horiz. Delineation	MR-AP-MW-20H	04/19/2023	10.4	4.88	1.64 J	98.5	NC	98.2	0	26.8
Horiz. Delineation	MR-AP-MW-20HS	04/19/2023	30.8	14.4	<1	73.8	NC	73.7	0	32.7
Horiz. Delineation	MR-AP-MW-27HR	04/25/2023	29.5	13.8	<1	175	0.582	174	0	59.4
Horiz. Delineation	MR-AP-MW-28H	04/19/2023	35.5	16.6	<1	179	0.963	178	0	7.37
Horiz. Delineation	MR-AP-MW-30H	04/26/2023	21.1	9.86	1.52 J	224	NC	224	0	58.4
Horiz. Delineation	MR-AP-MW-31H	04/24/2023	20.6	9.61	<1	249	0.587	248	0	13.6
Horiz. Delineation	MR-AP-MW-32H	04/19/2023	22.3	10.4	<1	200	1.29	199	0	8.09

Notes:

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6. NC = value not detected with alkalinity calculation

**Analytical Results Summary
Plant Miller Ash Pond
03/22/2023 - 05/03/2023**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Nitrate Nitrite mg/L as N	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L
Downgradient	MR-AP-MW-4	05/02/2023	0.291 J	29.5	0.816	28.3	368	0.0227 J	146	0.178
Downgradient	MR-AP-MW-5	04/25/2023	<0.2	32.4	1.82	90.2	744	<0.009135	229	4.17
Downgradient	MR-AP-MW-6	04/25/2023	<0.2	29.2	5.53	44.3	549	<0.009135	147	25.7
Downgradient	MR-AP-MW-7DR	04/24/2023	<0.2	37.9	1.2	74.6	421	<0.009135	133	2.13
Downgradient	MR-AP-MW-7SR	04/24/2023	<0.2	37.5	1.39	52	293	<0.009135	96.4	7.3
Downgradient	MR-AP-MW-9DR	05/03/2023	0.235 J	99.3	1.66	42.7	650	<0.009135	180	25
Downgradient	MR-AP-MW-9SR	05/03/2023	<0.2	62.8	0.553	35.8	343	<0.009135	124	3.66
Downgradient	MR-AP-PZ-5	04/25/2023	<0.2	2	0.0082	282	6.92	0.0301 J	5.85	<0.00812
Vert. Delineation	MR-AP-MW-4V	05/02/2023	0.521	26.5	0.64	39	306	0.112	108	0.839
Vert. Delineation	MR-AP-MW-6V	04/24/2023	0.364	23.8	0.0961	97.3	233	0.44	91.4	0.645
Horiz. Delineation	MR-AP-MW-17H	04/19/2023	<0.2	15.4	0.0601	96.1	56.1	0.0281 J	40.8	0.859
Horiz. Delineation	MR-AP-MW-18H	05/02/2023	<0.2	1.19	0.0168	153	111	0.037 J	3.04	0.366
Horiz. Delineation	MR-AP-MW-19HA	05/01/2023	<0.2	4.89	0.0163	400	142	0.015 J	14.2	0.0118 J
Horiz. Delineation	MR-AP-MW-20H	04/19/2023	<0.2	41.5	1.1	102	709	0.0665	197	3.64
Horiz. Delineation	MR-AP-MW-20HS	04/19/2023	<0.2	24.9	0.292	36.6	242	<0.009135	79.7	5.78
Horiz. Delineation	MR-AP-MW-27HR	04/25/2023	<0.2	17.5	0.0338	62.1	114	<0.009135	54.6	0.604
Horiz. Delineation	MR-AP-MW-28H	04/19/2023	<0.2	23.7	0.0521	35.2	80.4	0.0142 J	46.5	0.749
Horiz. Delineation	MR-AP-MW-30H	04/26/2023	1	84.5	0.0999	85.7	710	<0.009135	206	1.81
Horiz. Delineation	MR-AP-MW-31H	04/24/2023	<0.2	46.2	0.0332	73.5	396	<0.009135	125	1.92
Horiz. Delineation	MR-AP-MW-32H	04/19/2023	0.226 J	12.3	0.0107	19.8	21.2	<0.009135	56.6	0.258

Notes:

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- 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.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

**Analytical Results Summary
Plant Miller Ash Pond
03/22/2023 - 05/03/2023**

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Potassium mg/L
Downgradient	MR-AP-MW-4	05/02/2023	7.15
Downgradient	MR-AP-MW-5	04/25/2023	9.41
Downgradient	MR-AP-MW-6	04/25/2023	5.87
Downgradient	MR-AP-MW-7DR	04/24/2023	2.93
Downgradient	MR-AP-MW-7SR	04/24/2023	2.99
Downgradient	MR-AP-MW-9DR	05/03/2023	2.34
Downgradient	MR-AP-MW-9SR	05/03/2023	2.17
Downgradient	MR-AP-PZ-5	04/25/2023	2.32
Vert. Delineation	MR-AP-MW-4V	05/02/2023	6.46
Vert. Delineation	MR-AP-MW-6V	04/24/2023	3.52
Horiz. Delineation	MR-AP-MW-17H	04/19/2023	1.28
Horiz. Delineation	MR-AP-MW-18H	05/02/2023	0.892
Horiz. Delineation	MR-AP-MW-19HA	05/01/2023	6.97
Horiz. Delineation	MR-AP-MW-20H	04/19/2023	4.5
Horiz. Delineation	MR-AP-MW-20HS	04/19/2023	1.13
Horiz. Delineation	MR-AP-MW-27HR	04/25/2023	7.44
Horiz. Delineation	MR-AP-MW-28H	04/19/2023	1.61
Horiz. Delineation	MR-AP-MW-30H	04/26/2023	9.7
Horiz. Delineation	MR-AP-MW-31H	04/24/2023	3.86
Horiz. Delineation	MR-AP-MW-32H	04/19/2023	1.27

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Miller Ash Pond
03/22/2023 - 05/03/2023**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Sulfide mg/L	Chloride mg/L
Horiz. Delineation	MR-AP-MW-33H	04/25/2023	9.31	4.35	1.47 J	68.9	NC	68.8	0	21.4
Horiz. Delineation	MR-AP-MW-34H	05/02/2023	16.1	7.51	11.9	436	3.97	432	7	108
Horiz. Delineation	MR-AP-MW-35H	04/18/2023	34.2	16	<1	139	NC	139	0	2.26
Horiz. Delineation	MR-AP-MW-36HR	04/25/2023	13.5	6.3	<1	229	0.914	228	0	405
Horiz. Delineation	MR-AP-MW-37H	04/18/2023	24.8	11.6	<1	229	2.62	226	0	11.2

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Analytical Results Summary Plant Miller Ash Pond 03/22/2023 - 05/03/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Nitrate Nitrite mg/L as N	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L
Horiz. Delineation	MR-AP-MW-33H	04/25/2023	<0.2	32.8	3.35	51.6	732	0.0184 J	220	1.61
Horiz. Delineation	MR-AP-MW-34H	05/02/2023	<0.2	3.94	0.0294	388	137	<0.009135	14.9	0.0262 J
Horiz. Delineation	MR-AP-MW-35H	04/18/2023	<0.2	33.6	0.219	26.1	197	<0.009135	60.3	2.65
Horiz. Delineation	MR-AP-MW-36HR	04/25/2023	<0.2	11.7	0.04	557	519	<0.009135	34.7	0.273
Horiz. Delineation	MR-AP-MW-37H	04/18/2023	<0.2	13	0.0108	56	35.4	<0.009135	38.1	0.396

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Miller Ash Pond
03/22/2023 - 05/03/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Potassium mg/L
Horiz. Delineation	MR-AP-MW-33H	04/25/2023	10.6
Horiz. Delineation	MR-AP-MW-34H	05/02/2023	6.55
Horiz. Delineation	MR-AP-MW-35H	04/18/2023	1.49
Horiz. Delineation	MR-AP-MW-36HR	04/25/2023	21.1
Horiz. Delineation	MR-AP-MW-37H	04/18/2023	1.85

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Upgradient	MR-AP-MW-21	10/11/2023	686.84	0.2	-159.97	7.49	17.67	0.74
Upgradient	MR-AP-MW-22D	10/12/2023	4012.64	0.36	-197.35	8.75	18.61	3.5
Upgradient	MR-AP-MW-22I	10/04/2023	838.33	0.01	-135.21	8.02	18.7	1.28
Upgradient	MR-AP-MW-22S	10/04/2023	1260.32	0.04	-71.55	6.75	17.9	0.72
Upgradient	MR-AP-MW-23	10/04/2023	7940.63	0.43	-108.47	7.63	20.33	1.43
Upgradient	MR-AP-MW-23A	10/04/2023	8083.76	0.22	-83.94	7.54	20.66	0.62
Downgradient	MR-AP-MW-1	10/07/2023	0	0	0	7.96	0	3.39
Downgradient	MR-AP-MW-10	10/09/2023	2780.49	0.15	-66.55	7.16	17.59	2.81
Downgradient	MR-AP-MW-11	10/11/2023	1649.17	0.82	-50.45	6.59	18.59	8.24
Downgradient	MR-AP-MW-12	10/03/2023	0	0	0	6.53	0	2.47
Downgradient	MR-AP-MW-13DR	09/26/2023	1110.02	1.95	-69.53	7.08	21.49	0.49
Downgradient	MR-AP-MW-13SR	09/26/2023	1245.36	7.81	150.5	5.05	20.5	1
Downgradient	MR-AP-MW-14R	10/11/2023	347.08	0.06	-28.81	6.3	17.7	2.74
Downgradient	MR-AP-MW-15	09/26/2023	948.9	0.28	-15.78	5.89	20.18	1.08
Downgradient	MR-AP-MW-16	10/06/2023	0	0	0	6.63	18.98	0.92
Downgradient	MR-AP-MW-2	10/10/2023	3056.2	0.24	-89.35	6.18	20.44	3.18
Downgradient	MR-AP-MW-3D	10/02/2023	0	0	0	6.5	0	1.54
Downgradient	MR-AP-MW-3S	10/11/2023	0	0	0	8.76	0	1.71
Downgradient	MR-AP-MW-4	10/10/2023	996.98	0.28	93.9	6.36	21.05	4.65
Downgradient	MR-AP-MW-5	10/04/2023	1090.04	0.05	-98.23	7.1	18.65	2.61

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Downgradient	MR-AP-MW-6	10/06/2023	0	0	0	6.3	0	3.18
Downgradient	MR-AP-MW-7DR	10/03/2023	1046.39	0.1	-42.29	6.62	18.31	1.67
Downgradient	MR-AP-MW-7SR	10/03/2023	805.19	0.04	-34.59	6.37	18.48	1.56
Downgradient	MR-AP-MW-9DR	09/27/2023	1377.07	0.14	-63.29	6.35	17.61	0.53
Downgradient	MR-AP-MW-9SR	09/27/2023	996.97	0.46	6.27	6.19	17.89	0.98
Downgradient	MR-AP-PZ-5	10/04/2023	1193.76	0.05	-313.4	8.35	22.64	4.11
Vert. Delineation	MR-AP-MW-6V	10/11/2023	0	0	0	7.87	0	4.04
Horiz. Delineation	MR-AP-MW-17H	10/10/2023	815.7	0.08	-21.48	6.5	17.43	3.33
Horiz. Delineation	MR-AP-MW-18H	10/03/2023	936.07	0.92	-34.52	6.72	22.3	0.92
Horiz. Delineation	MR-AP-MW-19HA	10/10/2023	1466.12	0.42	-303.59	7.94	24.3	2.89
Horiz. Delineation	MR-AP-MW-20H	10/04/2023	1171.73	0.36	-101.35	7.2	20.02	2.94
Horiz. Delineation	MR-AP-MW-20HS	10/03/2023	569.12	0.08	-43.4	6.49	17.93	1.4
Horiz. Delineation	MR-AP-MW-27HR	09/27/2023	580.69	0.21	165.72	5.62	19.21	0.66
Horiz. Delineation	MR-AP-MW-28H	09/27/2023	487.45	0.57	6.61	6.22	22.05	3.33
Horiz. Delineation	MR-AP-MW-30H	10/11/2023	1871.61	0.56	-73.57	6.85	17.95	6.12
Horiz. Delineation	MR-AP-MW-31H	10/09/2023	1039.61	0.46	-36.94	6.94	19.87	8.44
Horiz. Delineation	MR-AP-MW-32H	10/04/2023	362.81	2.98	-39.16	7.24	18.1	3.96
Horiz. Delineation	MR-AP-MW-33H	09/30/2023	0	0	0	6.57	17.6	5.02
Horiz. Delineation	MR-AP-MW-34H	10/10/2023	1901.34	0.14	-290.69	8.04	18.07	3.8
Horiz. Delineation	MR-AP-MW-35H	10/10/2023	603.18	0.05	-20.25	6.65	19	1.16

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6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Miller Ash Pond
09/25/2023 - 10/12/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Horiz. Delineation	MR-AP-MW-36HR	10/12/2023	3558.57	0.27	0.67	6.91	18.42	2.81
Horiz. Delineation	MR-AP-MW-37H	10/09/2023	462.33	0.5	-49.23	7.12	17.81	1.09

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

EPA Appendix III Set									
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L	TDS PPT
Upgradient	MR-AP-MW-21	10/11/2023	0.0915 J	63.9	9.32	0.145	7.49	134	--
Upgradient	MR-AP-MW-22D	10/12/2023	0.102	33	868	0.234	8.75	224	--
Upgradient	MR-AP-MW-22I	10/04/2023	0.118	4.45	147	0.164	8.02	11.2	--
Upgradient	MR-AP-MW-22S	10/04/2023	0.0803 J	136	223	0.133	6.75	197	--
Upgradient	MR-AP-MW-23	10/04/2023	0.695	134	2630	0.33	7.63	1.62 J	--
Upgradient	MR-AP-MW-23A	10/04/2023	0.64	146	2560	0.347	7.54	85.5	--
Downgradient	MR-AP-MW-1	10/11/2023	0.0595 J	217	8.56	0.156	7.96	555	0
Downgradient	MR-AP-MW-10	10/09/2023	7.06	194	8.66	0.578	7.16	1410	--
Downgradient	MR-AP-MW-11	10/11/2023	0.033 J	209	6.13	0.117 J	6.59	643	--
Downgradient	MR-AP-MW-12	10/02/2023	5.12	31.2	5.08	1.07	6.53	493	0
Downgradient	MR-AP-MW-13DR	09/26/2023	0.059 J	83.5	108	0.221	7.08	217	--
Downgradient	MR-AP-MW-13SR	09/26/2023	0.0417 J	62.9	4.32	0.169	5.05	667	--
Downgradient	MR-AP-MW-14R	10/11/2023	0.0756 J	45.8	8.26	0.168	6.3	52.3	--
Downgradient	MR-AP-MW-15	09/26/2023	2.31	82.2	16.4	0.128	5.89	438	--
Downgradient	MR-AP-MW-16	10/11/2023	2.63	169	11.7	0.141	6.63	499	0
Downgradient	MR-AP-MW-2	10/10/2023	0.173	278	6.83	0.232	6.18	1530	--
Downgradient	MR-AP-MW-3D	10/03/2023	0.299	114	6.99	0.272	6.5	292	0
Downgradient	MR-AP-MW-3S	10/03/2023	0.239	5.03	66.6	0.264	8.76	129	0
Downgradient	MR-AP-MW-4	10/10/2023	0.446	205	21.4	0.182	6.36	429	--
Downgradient	MR-AP-MW-5	10/04/2023	1.02	215	21.8	0.397	7.1	729	--
Downgradient	MR-AP-MW-6	10/03/2023	0.573	147	29	0.108 J	6.3	426	0

Notes:

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5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
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Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

EPA Appendix III Set									
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L	TDS PPT
Downgradient	MR-AP-MW-7DR	10/03/2023	0.75	168	53.1	0.109 J	6.62	398	--
Downgradient	MR-AP-MW-7SR	10/03/2023	0.689	117	22.5	0.173	6.37	311	--
Downgradient	MR-AP-MW-9DR	09/27/2023	0.228	173	9.11	0.188	6.35	666	--
Downgradient	MR-AP-MW-9SR	09/27/2023	0.114	118	5.66	0.125	6.19	358	--
Downgradient	MR-AP-PZ-5	10/04/2023	0.255	5.67	27.1	2.27	8.35	18.9	--
Vert. Delineation	MR-AP-MW-6V	10/03/2023	0.207	62.8	18.3	0.214	7.87	79.2	0
Horiz. Delineation	MR-AP-MW-17H	10/10/2023	0.14	37.7	10.1	0.163	6.5	90.1	--
Horiz. Delineation	MR-AP-MW-18H	10/03/2023	0.241	6.48	6.83	0.267	6.72	207	--
Horiz. Delineation	MR-AP-MW-19HA	10/10/2023	0.142	11.9	103	2.07	7.94	83.5	--
Horiz. Delineation	MR-AP-MW-20H	10/04/2023	0.881	217	23.4	0.314	7.2	750	--
Horiz. Delineation	MR-AP-MW-20HS	10/03/2023	0.334	78.9	30.1	0.0707 J	6.49	203	--
Horiz. Delineation	MR-AP-MW-27HR	09/27/2023	0.0411 J	58.2	15.6	0.143	5.62	124	--
Horiz. Delineation	MR-AP-MW-28H	09/27/2023	0.19	49.6	18.3	0.154	6.22	79.4	--
Horiz. Delineation	MR-AP-MW-30H	10/11/2023	<0.03	229	53.5	0.172	6.85	713	--
Horiz. Delineation	MR-AP-MW-31H	10/09/2023	0.0322 J	161	13.8	0.114 J	6.94	374	--
Horiz. Delineation	MR-AP-MW-32H	10/04/2023	<0.03	61.2	6.34	0.123 J	7.24	14.1	--
Horiz. Delineation	MR-AP-MW-33H	10/04/2023	0.874	237	97	0.222	6.57	523	0
Horiz. Delineation	MR-AP-MW-34H	10/10/2023	0.138	15.5	121	0.337	8.04	177	--
Horiz. Delineation	MR-AP-MW-35H	10/10/2023	<0.03	77.1	2.03	0.133	6.65	194	--
Horiz. Delineation	MR-AP-MW-36HR	10/12/2023	0.158	56.7	555	0.312	6.91	722	--
Horiz. Delineation	MR-AP-MW-37H	10/09/2023	<0.03	39.8	12.2	0.176	7.12	32.9	--

Notes:

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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.
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6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	MR-AP-MW-21	10/11/2023	<0.00071	0.000954	0.134	<0.000406	<6.8e-005	0.00022 J	0.000133 J	0.145
Upgradient	MR-AP-MW-22D	10/12/2023	0.000751 J	0.00293	0.302	<0.000406	<6.8e-005	0.000544 J	<6.8e-005	0.234
Upgradient	MR-AP-MW-22I	10/04/2023	<0.00071	0.000113 J	0.101	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.164
Upgradient	MR-AP-MW-22S	10/04/2023	<0.00071	0.000182 J	0.0472	<0.000406	<6.8e-005	0.000297 J	<6.8e-005	0.133
Upgradient	MR-AP-MW-23	10/04/2023	<0.00071	0.000572	11.7	<0.000406	<6.8e-005	0.00034 J	8.86e-005 J	0.33
Upgradient	MR-AP-MW-23A	10/04/2023	<0.00071	0.0044	2.12	<0.000406	<6.8e-005	0.000396 J	0.000642	0.347
Downgradient	MR-AP-MW-1	10/11/2023	0.012	0.001	0.189	<0.000406	<6.8e-005	0.000805 J	0.000478	0.156
Downgradient	MR-AP-MW-10	10/09/2023	<0.00071	0.027	0.0231	<0.000406	<6.8e-005	0.00048 J	0.00143	0.578
Downgradient	MR-AP-MW-11	10/11/2023	<0.00071	<0.000112	0.0433	<0.000406	<6.8e-005	0.000302 J	<6.8e-005	0.117 J
Downgradient	MR-AP-MW-12	10/02/2023	<0.00071	0.00938	0.0192	<0.000406	<6.8e-005	0.000606 J	0.000977	1.07
Downgradient	MR-AP-MW-13DR	09/26/2023	<0.00071	0.00051	0.0562	<0.000406	<6.8e-005	0.000263 J	0.00101	0.221
Downgradient	MR-AP-MW-13SR	09/26/2023	<0.00071	0.00102	0.0172	0.00188	0.000822	0.000364 J	0.0872	0.169
Downgradient	MR-AP-MW-14R	10/11/2023	<0.00071	0.000171 J	0.109	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.168
Downgradient	MR-AP-MW-15	09/26/2023	<0.00071	0.00103	0.0307	<0.000406	<6.8e-005	<0.000203	0.032	0.128
Downgradient	MR-AP-MW-16	10/11/2023	<0.00071	0.00334	0.0246	<0.000406	<6.8e-005	0.000239 J	0.00421	0.141
Downgradient	MR-AP-MW-2	10/10/2023	<0.00071	0.00403	0.0164	<0.000406	<6.8e-005	0.000268 J	0.0451	0.232
Downgradient	MR-AP-MW-3D	10/03/2023	0.00447	0.0136	0.0346	<0.000406	<6.8e-005	0.000259 J	0.00359	0.272
Downgradient	MR-AP-MW-3S	10/03/2023	0.00289	0.000607	0.13	<0.000406	<6.8e-005	0.00045 J	<6.8e-005	0.264
Downgradient	MR-AP-MW-4	10/10/2023	<0.00071	0.000178 J	0.0194	<0.000406	<6.8e-005	0.000361 J	0.00342	0.182

Notes:

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Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Upgradient	MR-AP-MW-21	10/11/2023	<6.8e-005	0.0567	<0.0003	<0.005075	<0.000508	<6.8e-005	0.819 U
Upgradient	MR-AP-MW-22D	10/12/2023	<6.8e-005	0.135	<0.0003	0.021	<0.000508	<6.8e-005	1.05 U
Upgradient	MR-AP-MW-22I	10/04/2023	<6.8e-005	0.0605	<0.0003	<0.005075	<0.000508	<6.8e-005	0.183 U
Upgradient	MR-AP-MW-22S	10/04/2023	<6.8e-005	0.0798	<0.0003	<0.005075	<0.000508	<6.8e-005	0.85 U
Upgradient	MR-AP-MW-23	10/04/2023	<6.8e-005	0.838	<0.0003	<0.005075	<0.000508	<6.8e-005	7.14
Upgradient	MR-AP-MW-23A	10/04/2023	<6.8e-005	0.791	<0.0003	0.0137	<0.000508	<6.8e-005	0.825 U
Downgradient	MR-AP-MW-1	10/11/2023	<6.8e-005	0.192	<0.0003	<0.005075	<0.000508	<6.8e-005	1.12 U
Downgradient	MR-AP-MW-10	10/09/2023	<6.8e-005	0.281	<0.0003	0.358	<0.000508	<6.8e-005	0.786 U
Downgradient	MR-AP-MW-11	10/11/2023	<6.8e-005	0.257	<0.0003	<0.005075	<0.000508	<6.8e-005	0.744 U
Downgradient	MR-AP-MW-12	10/02/2023	0.000224	0.0552	<0.0003	0.281	<0.000508	<6.8e-005	0.524 U
Downgradient	MR-AP-MW-13DR	09/26/2023	<6.8e-005	0.0435	<0.0003	<0.005075	<0.000508	<6.8e-005	0.62 U
Downgradient	MR-AP-MW-13SR	09/26/2023	0.000686	0.0222	<0.0003	<0.005075	<0.000508	0.000169 J	1.18 U
Downgradient	MR-AP-MW-14R	10/11/2023	<6.8e-005	0.0199 J	<0.0003	<0.005075	<0.000508	<6.8e-005	0.373 U
Downgradient	MR-AP-MW-15	09/26/2023	<6.8e-005	0.0229	<0.0003	<0.005075	<0.000508	<6.8e-005	1.15 U
Downgradient	MR-AP-MW-16	10/11/2023	<6.8e-005	0.171	<0.0003	0.0792	<0.000508	<6.8e-005	0.36 U
Downgradient	MR-AP-MW-2	10/10/2023	<6.8e-005	0.22	<0.0003	<0.005075	<0.000508	<6.8e-005	0.693 U
Downgradient	MR-AP-MW-3D	10/03/2023	<6.8e-005	0.0938	<0.0003	0.0267	<0.000508	<6.8e-005	1.11 U
Downgradient	MR-AP-MW-3S	10/03/2023	<6.8e-005	0.203	<0.0003	0.0668	<0.000508	<6.8e-005	0.393 U
Downgradient	MR-AP-MW-4	10/10/2023	6.89e-005 J	0.0672	<0.0003	<0.005075	<0.000508	<6.8e-005	0.771 U

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Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Downgradient	MR-AP-MW-5	10/04/2023	<0.00071	0.0093	0.0189	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.397
Downgradient	MR-AP-MW-6	10/03/2023	0.00225	0.00086	0.0241	<0.000406	<6.8e-005	<0.000203	0.00795	0.108 J
Downgradient	MR-AP-MW-7DR	10/03/2023	<0.00071	0.000432	0.0281	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.109 J
Downgradient	MR-AP-MW-7SR	10/03/2023	<0.00071	0.00172	0.0396	<0.000406	<6.8e-005	<0.000203	0.000604	0.173
Downgradient	MR-AP-MW-9DR	09/27/2023	<0.00071	0.00051	0.0202	<0.000406	<6.8e-005	<0.000203	9.05e-005 J	0.188
Downgradient	MR-AP-MW-9SR	09/27/2023	<0.00071	0.00076	0.0208	<0.000406	<6.8e-005	<0.000203	0.000124 J	0.125
Downgradient	MR-AP-PZ-5	10/04/2023	<0.00071	0.000339	0.223	<0.000406	<6.8e-005	<0.000203	<6.8e-005	2.27
Vert. Delineation	MR-AP-MW-6V	10/03/2023	<0.00071	0.000981	0.042	<0.000406	<6.8e-005	<0.000203	0.000158 J	0.214
Horiz. Delineation	MR-AP-MW-17H	10/10/2023	<0.00071	<0.000112	0.141	<0.000406	<6.8e-005	0.000285 J	<6.8e-005	0.163
Horiz. Delineation	MR-AP-MW-18H	10/03/2023	<0.00071	0.000216	0.0586	<0.000406	<6.8e-005	0.000396 J	<6.8e-005	0.267
Horiz. Delineation	MR-AP-MW-19HA	10/10/2023	<0.00071	0.000964	0.087	<0.000406	<6.8e-005	<0.000203	<6.8e-005	2.07
Horiz. Delineation	MR-AP-MW-20H	10/04/2023	<0.00071	0.00112	0.0287	<0.000406	<6.8e-005	<0.000203	0.0011	0.314
Horiz. Delineation	MR-AP-MW-20HS	10/03/2023	<0.00071	0.000362	0.0352	<0.000406	<6.8e-005	<0.000203	0.000185 J	0.0707 J
Horiz. Delineation	MR-AP-MW-27HR	09/27/2023	<0.00071	0.000242	0.0439	<0.000406	<6.8e-005	0.000204 J	0.000128 J	0.143
Horiz. Delineation	MR-AP-MW-28H	09/27/2023	<0.00071	0.00108	0.0555	<0.000406	<6.8e-005	<0.000203	0.000199 J	0.154
Horiz. Delineation	MR-AP-MW-30H	10/11/2023	<0.00071	0.00042	0.0192	<0.000406	<6.8e-005	0.000278 J	<6.8e-005	0.172
Horiz. Delineation	MR-AP-MW-31H	10/09/2023	<0.00071	0.000797	0.0355	<0.000406	<6.8e-005	0.00021 J	<6.8e-005	0.114 J
Horiz. Delineation	MR-AP-MW-32H	10/04/2023	<0.00071	0.00119	0.563	<0.000406	<6.8e-005	<0.000203	0.000107 J	0.123 J
Horiz. Delineation	MR-AP-MW-33H	10/04/2023	<0.00071	0.00289	0.0328	<0.000406	0.000191 J	<0.000203	0.00722	0.222
Horiz. Delineation	MR-AP-MW-34H	10/10/2023	<0.00071	0.00223	0.0493	<0.000406	<6.8e-005	0.000273 J	<6.8e-005	0.337

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Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Downgradient	MR-AP-MW-5	10/04/2023	<6.8e-005	0.203	<0.0003	0.101	<0.000508	<6.8e-005	1.22 U
Downgradient	MR-AP-MW-6	10/03/2023	0.000107 J	0.0471	<0.0003	<0.005075	<0.000508	<6.8e-005	0.629 U
Downgradient	MR-AP-MW-7DR	10/03/2023	<6.8e-005	0.106	<0.0003	0.0067 J	<0.000508	<6.8e-005	0.339 U
Downgradient	MR-AP-MW-7SR	10/03/2023	<6.8e-005	0.155	<0.0003	0.0291	<0.000508	<6.8e-005	0.195 U
Downgradient	MR-AP-MW-9DR	09/27/2023	<6.8e-005	0.0583	<0.0003	<0.005075	<0.000508	<6.8e-005	0.54 U
Downgradient	MR-AP-MW-9SR	09/27/2023	<6.8e-005	0.0419	<0.0003	<0.005075	<0.000508	<6.8e-005	0.446 U
Downgradient	MR-AP-PZ-5	10/04/2023	0.000355	0.125	<0.0003	<0.005075	<0.000508	<6.8e-005	0.813 U
Vert. Delineation	MR-AP-MW-6V	10/03/2023	<6.8e-005	0.067	<0.0003	0.00599 J	<0.000508	<6.8e-005	0.486 U
Horiz. Delineation	MR-AP-MW-17H	10/10/2023	<6.8e-005	0.113	<0.0003	<0.005075	<0.000508	<6.8e-005	0.618 U
Horiz. Delineation	MR-AP-MW-18H	10/03/2023	<6.8e-005	0.147	<0.0003	0.0132	<0.000508	<6.8e-005	0.294 U
Horiz. Delineation	MR-AP-MW-19HA	10/10/2023	<6.8e-005	0.106	<0.0003	0.00685 J	<0.000508	<6.8e-005	1.33
Horiz. Delineation	MR-AP-MW-20H	10/04/2023	<6.8e-005	0.214	<0.0003	0.0878	<0.000508	<6.8e-005	1.43 U
Horiz. Delineation	MR-AP-MW-20HS	10/03/2023	<6.8e-005	0.0379	<0.0003	<0.005075	<0.000508	<6.8e-005	0.0623 U
Horiz. Delineation	MR-AP-MW-27HR	09/27/2023	<6.8e-005	0.0574	<0.0003	<0.005075	<0.000508	<6.8e-005	0.32 U
Horiz. Delineation	MR-AP-MW-28H	09/27/2023	<6.8e-005	0.049	<0.0003	<0.005075	<0.000508	<6.8e-005	0.551 U
Horiz. Delineation	MR-AP-MW-30H	10/11/2023	<6.8e-005	0.0922	<0.0003	<0.005075	<0.000508	<6.8e-005	0.5 U
Horiz. Delineation	MR-AP-MW-31H	10/09/2023	<6.8e-005	0.122	<0.0003	<0.005075	<0.000508	<6.8e-005	0.253 U
Horiz. Delineation	MR-AP-MW-32H	10/04/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.08 U
Horiz. Delineation	MR-AP-MW-33H	10/04/2023	9.93e-005 J	0.152	<0.0003	0.0334	<0.000508	<6.8e-005	0.849 U
Horiz. Delineation	MR-AP-MW-34H	10/10/2023	<6.8e-005	0.132	<0.0003	0.00568 J	<0.000508	<6.8e-005	0.52 U

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Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Horiz. Delineation	MR-AP-MW-35H	10/10/2023	<0.00071	0.0138	0.0292	<0.000406	<6.8e-005	0.000251 J	<6.8e-005	0.133
Horiz. Delineation	MR-AP-MW-36HR	10/12/2023	0.000912 J	0.00325	0.0459	<0.000406	<6.8e-005	0.00632	0.000183 J	0.312
Horiz. Delineation	MR-AP-MW-37H	10/09/2023	0.00077 J	0.000842	0.116	<0.000406	<6.8e-005	0.00024 J	<6.8e-005	0.176

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Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Horiz. Delineation	MR-AP-MW-35H	10/10/2023	<6.8e-005	0.0279	<0.0003	<0.005075	<0.000508	<6.8e-005	0.609 U
Horiz. Delineation	MR-AP-MW-36HR	10/12/2023	<6.8e-005	0.29	<0.0003	0.124	<0.000508	<6.8e-005	0.874 U
Horiz. Delineation	MR-AP-MW-37H	10/09/2023	<6.8e-005	0.0608	<0.0003	<0.005075	<0.000508	<6.8e-005	0.142 U

Notes:

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Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Potassium mg/L	Magnesium Total mg/L	Manganese Total mg/L
Upgradient	MR-AP-MW-21	10/11/2023	9.32	<0.2	134	0.0117 J	63.9	2.84	16.9	0.0553
Upgradient	MR-AP-MW-22D	10/12/2023	868	<0.2	224	0.0191 J	33	14.4	5.79	0.0148
Upgradient	MR-AP-MW-22I	10/04/2023	147	<0.2	11.2	0.0403 J	4.45	2.99	1.21	0.0106
Upgradient	MR-AP-MW-22S	10/04/2023	223	<0.2	197	<0.009135	136	2.07	62.2	0.256
Upgradient	MR-AP-MW-23	10/04/2023	2630	<0.2	1.62 J	0.0148 J	134	6.42	46.6	0.0935
Upgradient	MR-AP-MW-23A	10/04/2023	2560	<0.2	85.5	<0.009135	146	16	49.9	0.091
Downgradient	MR-AP-MW-1	10/11/2023	8.56	<0.2	555	<0.009135	217	6.59	33.8	0.253
Downgradient	MR-AP-MW-10	10/09/2023	8.66	<0.2	1410	<0.009135	194	17.9	97.3	1.08
Downgradient	MR-AP-MW-11	10/11/2023	6.13	<0.2	643	<0.009135	209	11.9	91.3	0.0842
Downgradient	MR-AP-MW-12	10/11/2023	5.08	<0.2	493	0.521	31.2	6.61	18.4	0.379
Downgradient	MR-AP-MW-13DR	09/26/2023	108	0.298 J	217	<0.009135	83.5	2.33	33.1	0.114
Downgradient	MR-AP-MW-13SR	09/26/2023	4.32	<0.2	667	0.658	62.9	3.94	138	2.86
Downgradient	MR-AP-MW-14R	10/11/2023	8.26	<0.2	52.3	0.0591	45.8	1.08	17.4	0.183
Downgradient	MR-AP-MW-15	09/26/2023	16.4	<0.2	438	<0.009135	82.2	4.44	24.2	2.62
Downgradient	MR-AP-MW-16	10/11/2023	11.7	<0.2	499	<0.009135	169	13.3	21.7	1.45
Downgradient	MR-AP-MW-2	10/10/2023	6.83	0.333	1530	0.0165 J	278	4.56	175	3.35
Downgradient	MR-AP-MW-3D	10/03/2023	6.99	<0.2	292	0.0223 J	114	5.62	26.8	1.16
Downgradient	MR-AP-MW-3S	10/03/2023	66.6	3.37	129	0.0346 J	5.03	2.27	1.33	0.00728
Downgradient	MR-AP-MW-4	10/10/2023	21.4	<0.2	429	0.0365 J	205	7.56	35.9	1.81
Downgradient	MR-AP-MW-5	10/04/2023	21.8	<0.2	729	<0.009135	215	9.71	31.8	1.83

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sodium mg/L	Silica mg/L	Iron Total mg/L	Sulfide mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L
Upgradient	MR-AP-MW-21	10/11/2023	104	18.4	0.342	0	8.59	<1	251	2.18
Upgradient	MR-AP-MW-22D	10/12/2023	596	16.7	0.0583	1	7.82	3.4	111	4.18
Upgradient	MR-AP-MW-22I	10/04/2023	237	10.9	0.0432	0	5.11	<1	255	9.19
Upgradient	MR-AP-MW-22S	10/04/2023	109	30.4	1.92	0	14.2	<1	243	NC
Upgradient	MR-AP-MW-23	10/04/2023	1580	16.8	1.31	0	7.85	<1	307	1.25
Upgradient	MR-AP-MW-23A	10/04/2023	1630	16	0.334	0	7.5	<1	253	1.39
Downgradient	MR-AP-MW-1	10/11/2023	213	14.4	10.6	0	6.72	1.66 J	259	2.2
Downgradient	MR-AP-MW-10	10/09/2023	495	20.2	2.68	0	9.44	1.32 J	269	0.634
Downgradient	MR-AP-MW-11	10/11/2023	93.2	11.5	5.76	0	5.39	2.95	165	NC
Downgradient	MR-AP-MW-12	10/11/2023	320	18.9	1.81	0	8.83	1.46 J	252	NC
Downgradient	MR-AP-MW-13DR	09/26/2023	119	22.3	0.209	0	10.4	<1	202	NC
Downgradient	MR-AP-MW-13SR	09/26/2023	21.8	18.5	12.2	0	8.63	1.56 J	13.7	NC
Downgradient	MR-AP-MW-14R	10/11/2023	12.3	32.3	3.77	0	15.1	<1	132	NC
Downgradient	MR-AP-MW-15	09/26/2023	98.4	29.5	17.8	0	13.8	<1	41.2	NC
Downgradient	MR-AP-MW-16	10/11/2023	93.1	7.7	1.73	0	3.6	1.66 J	67.8	NC
Downgradient	MR-AP-MW-2	10/10/2023	158	20.1	186	0	9.39	2.95	11.5	NC
Downgradient	MR-AP-MW-3D	10/03/2023	83.3	13.2	3.33	0	6.18	1.87 J	241	NC
Downgradient	MR-AP-MW-3S	10/03/2023	236	9.74	0.0372 J	0	4.55	2.14	251	16.3
Downgradient	MR-AP-MW-4	10/10/2023	30.1	13.3	0.393	0	6.2	1.12 J	116	NC
Downgradient	MR-AP-MW-5	10/04/2023	95.1	8.45	3.82	0	3.95	1.72 J	87.4	NC

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Miller Ash Pond
09/25/2023 - 10/12/2023**

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Bicarbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L
Upgradient	MR-AP-MW-21	10/11/2023	249
Upgradient	MR-AP-MW-22D	10/12/2023	107
Upgradient	MR-AP-MW-22I	10/04/2023	246
Upgradient	MR-AP-MW-22S	10/04/2023	243
Upgradient	MR-AP-MW-23	10/04/2023	306
Upgradient	MR-AP-MW-23A	10/04/2023	252
Downgradient	MR-AP-MW-1	10/11/2023	257
Downgradient	MR-AP-MW-10	10/09/2023	268
Downgradient	MR-AP-MW-11	10/11/2023	165
Downgradient	MR-AP-MW-12	10/11/2023	252
Downgradient	MR-AP-MW-13DR	09/26/2023	202
Downgradient	MR-AP-MW-13SR	09/26/2023	13.7
Downgradient	MR-AP-MW-14R	10/11/2023	132
Downgradient	MR-AP-MW-15	09/26/2023	41.2
Downgradient	MR-AP-MW-16	10/11/2023	67.6
Downgradient	MR-AP-MW-2	10/10/2023	11.5
Downgradient	MR-AP-MW-3D	10/03/2023	241
Downgradient	MR-AP-MW-3S	10/03/2023	234
Downgradient	MR-AP-MW-4	10/10/2023	116
Downgradient	MR-AP-MW-5	10/04/2023	87.2

Notes:

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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. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Potassium mg/L	Magnesium Total mg/L	Manganese Total mg/L
Downgradient	MR-AP-MW-6	10/03/2023	29	0.244 J	426	0.0186 J	147	4.52	27.1	4.31
Downgradient	MR-AP-MW-7DR	10/03/2023	53.1	<0.2	398	<0.009135	168	3.35	51.7	1.22
Downgradient	MR-AP-MW-7SR	10/03/2023	22.5	<0.2	311	<0.009135	117	3.28	49.3	1.45
Downgradient	MR-AP-MW-9DR	09/27/2023	9.11	<0.2	666	<0.009135	173	2.19	99.6	1.57
Downgradient	MR-AP-MW-9SR	09/27/2023	5.66	<0.2	358	<0.009135	118	1.88	60.9	0.532
Downgradient	MR-AP-PZ-5	10/04/2023	27.1	<0.2	18.9	0.0463 J	5.67	2.31	1.99	0.0102
Vert. Delineation	MR-AP-MW-6V	10/03/2023	18.3	<0.2	79.2	0.0241 J	62.8	2.02	17.9	0.0958
Horiz. Delineation	MR-AP-MW-17H	10/10/2023	10.1	<0.2	90.1	0.0278 J	37.7	1.55	15.7	0.0489
Horiz. Delineation	MR-AP-MW-18H	10/03/2023	6.83	<0.2	207	0.0221 J	6.48	1.28	2.77	0.0313
Horiz. Delineation	MR-AP-MW-19HA	10/10/2023	103	<0.2	83.5	<0.009135	11.9	8.08	4.09	0.0176
Horiz. Delineation	MR-AP-MW-20H	10/04/2023	23.4	<0.2	750	0.0186 J	217	5.39	44.7	1.25
Horiz. Delineation	MR-AP-MW-20HS	10/03/2023	30.1	<0.2	203	<0.009135	78.9	1.29	21.3	0.308
Horiz. Delineation	MR-AP-MW-27HR	09/27/2023	15.6	0.279 J	124	<0.009135	58.2	3.38	28.3	0.384
Horiz. Delineation	MR-AP-MW-28H	09/27/2023	18.3	<0.2	79.4	0.0119 J	49.6	1.91	22.7	0.0589
Horiz. Delineation	MR-AP-MW-30H	10/11/2023	53.5	<0.2	713	<0.009135	229	10.4	106	0.0982
Horiz. Delineation	MR-AP-MW-31H	10/09/2023	13.8	<0.2	374	<0.009135	161	4.05	64.8	0.0342
Horiz. Delineation	MR-AP-MW-32H	10/04/2023	6.34	<0.2	14.1	0.0105 J	61.2	1.51	12	0.0256
Horiz. Delineation	MR-AP-MW-33H	10/04/2023	97	<0.2	523	0.0209 J	237	11.9	34.5	3.71
Horiz. Delineation	MR-AP-MW-34H	10/10/2023	121	<0.2	177	<0.009135	15.5	7.93	4.55	0.0341
Horiz. Delineation	MR-AP-MW-35H	10/10/2023	2.03	<0.2	194	<0.009135	77.1	1.44	36	0.277

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sodium mg/L	Silica mg/L	Iron Total mg/L	Sulfide mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L
Downgradient	MR-AP-MW-6	10/03/2023	38.4	21.2	33.2	0	9.89	<1	45.6	NC
Downgradient	MR-AP-MW-7DR	10/03/2023	101	14.4	2.13	0	6.73	1.85 J	146	NC
Downgradient	MR-AP-MW-7SR	10/03/2023	69.2	22	9.13	0	10.3	1.96 J	177	NC
Downgradient	MR-AP-MW-9DR	09/27/2023	44.5	29.1	23.8	0	13.6	<1	170	NC
Downgradient	MR-AP-MW-9SR	09/27/2023	30.8	27	5.11	0	12.6	<1	212	NC
Downgradient	MR-AP-PZ-5	10/04/2023	331	9.61	0.01 J	8	4.49	2.97	623	21
Vert. Delineation	MR-AP-MW-6V	10/03/2023	59.2	17.6	0.18	0	8.23	1.16 J	236	2.82
Horiz. Delineation	MR-AP-MW-17H	10/10/2023	187	24.4	1.79	0	11.4	<1	387	0.832
Horiz. Delineation	MR-AP-MW-18H	10/03/2023	234	11	0.491	0	5.14	1.66 J	278	1.11
Horiz. Delineation	MR-AP-MW-19HA	10/10/2023	388	13.4	0.0159 J	8	6.28	4	531	7.79
Horiz. Delineation	MR-AP-MW-20H	10/04/2023	109	10.4	4.77	0	4.84	1.76 J	96.6	NC
Horiz. Delineation	MR-AP-MW-20HS	10/03/2023	36.6	32.5	5.75	0	15.2	<1	80.9	NC
Horiz. Delineation	MR-AP-MW-27HR	09/27/2023	30.4	31	0.547	0	14.5	<1	159	NC
Horiz. Delineation	MR-AP-MW-28H	09/27/2023	45.6	34.7	0.842	0	16.2	<1	197	NC
Horiz. Delineation	MR-AP-MW-30H	10/11/2023	99	20.9	1.75	0	9.76	2.6	232	NC
Horiz. Delineation	MR-AP-MW-31H	10/09/2023	104	21	2.43	0	9.79	<1	257	1.1
Horiz. Delineation	MR-AP-MW-32H	10/04/2023	19.5	23.1	0.25	0	10.8	<1	209	1.78
Horiz. Delineation	MR-AP-MW-33H	10/04/2023	62	10.1	0.94	0	4.74	2.39	75.8	NC
Horiz. Delineation	MR-AP-MW-34H	10/10/2023	359	15.4	0.0255 J	7	7.18	14	465	7.31
Horiz. Delineation	MR-AP-MW-35H	10/10/2023	25.5	36.2	3.35	0	16.9	<1	143	NC

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Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Bicarbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L
Downgradient	MR-AP-MW-6	10/03/2023	45.6
Downgradient	MR-AP-MW-7DR	10/03/2023	146
Downgradient	MR-AP-MW-7SR	10/03/2023	177
Downgradient	MR-AP-MW-9DR	09/27/2023	170
Downgradient	MR-AP-MW-9SR	09/27/2023	212
Downgradient	MR-AP-PZ-5	10/04/2023	602
Vert. Delineation	MR-AP-MW-6V	10/03/2023	233
Horiz. Delineation	MR-AP-MW-17H	10/10/2023	386
Horiz. Delineation	MR-AP-MW-18H	10/03/2023	277
Horiz. Delineation	MR-AP-MW-19HA	10/10/2023	523
Horiz. Delineation	MR-AP-MW-20H	10/04/2023	96.3
Horiz. Delineation	MR-AP-MW-20HS	10/03/2023	80.8
Horiz. Delineation	MR-AP-MW-27HR	09/27/2023	159
Horiz. Delineation	MR-AP-MW-28H	09/27/2023	197
Horiz. Delineation	MR-AP-MW-30H	10/11/2023	232
Horiz. Delineation	MR-AP-MW-31H	10/09/2023	256
Horiz. Delineation	MR-AP-MW-32H	10/04/2023	207
Horiz. Delineation	MR-AP-MW-33H	10/04/2023	75.7
Horiz. Delineation	MR-AP-MW-34H	10/10/2023	458
Horiz. Delineation	MR-AP-MW-35H	10/10/2023	143

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Miller Ash Pond
09/25/2023 - 10/12/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Potassium mg/L	Magnesium Total mg/L	Manganese Total mg/L
Horiz. Delineation	MR-AP-MW-36HR	10/12/2023	555	2.82	722	<0.009135	56.7	43.2	18.7	0.09
Horiz. Delineation	MR-AP-MW-37H	10/09/2023	12.2	<0.2	32.9	<0.009135	39.8	2.14	13.7	0.0124

Notes:

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

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Miller Ash Pond 09/25/2023 - 10/12/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sodium mg/L	Silica mg/L	Iron Total mg/L	Sulfide mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L
Horiz. Delineation	MR-AP-MW-36HR	10/12/2023	723	11.4	0.227	0	5.31	1.58 J	237	1.37
Horiz. Delineation	MR-AP-MW-37H	10/09/2023	67.6	25.5	0.405	0	11.9	<1	233	1.61

Notes:

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2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
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. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
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Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Miller Ash Pond
09/25/2023 - 10/12/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Bicarbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L
Horiz. Delineation	MR-AP-MW-36HR	10/12/2023	236
Horiz. Delineation	MR-AP-MW-37H	10/09/2023	231

Notes:

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



Table 8.
Pottsville Background - Lithium and Boron Concentrations

Well Name	Facility	Pottsville Coal Group ID	Lithium Concentrations	Boron Concentrations	Well Depth (ft.) Below Top of Casing
MR-AP-MW-21	Miller AP	Mary Lee (Lower)	0.0252 - 0.0493	0.0619 - 0.1010	183.64
MR-AP-MW-22S	Miller AP	Mary Lee (Lower)	0.0694 - 0.1720	0.0628 - 0.1340	50.00
MR-AP-MW-22I	Miller AP	Mary Lee (Lower)	0.0728 - 0.1410	0.1350 - 0.1730	141.40
MR-AP-MW-22D	Miller AP	Mary Lee (Lower)	0.3440 - 0.4060	0.1490 - 0.1700	203.20
MR-AP-MW-23	Miller AP	Mary Lee (Lower)	1.05 - 1.20	0.7560 - 0.7990	67.57
MR-AP-MW-23A	Miller AP	Mary Lee (Lower)	1.05 - 1.17	0.6940 - 0.7060	68.10
GS-AP-MW-8	Gorgas AP	Pratt (Upper)	ND - 0.008	ND - 0.0239	64.59
GS-AP-MW-13	Gorgas AP	Pratt (Upper)	ND - 0.0118	ND	113.17
GS-AP-MW-16S	Gorgas AP	Pratt (Upper)	0.0740 - 0.1030	0.0762 - 0.0777	133.38
GS-AP-MW-17V	Gorgas AP	Cobb to Pratt Transition	0.0574 - 0.0809	0.0337 - 0.0532	151.4
MW-1	Gorgas Landfills	Pratt + Mine Backfill	0.0241 - 0.0301	ND - 0.0307	104.59
MW-2	Gorgas Landfills	Pratt + Mine Backfill	0.0353 - 0.0677	ND - 0.0371	91.04
MW-3	Gorgas Landfills	Pratt + Mine Backfill	0.0689 - 0.419	ND - 0.0548	115.33
MW-4	Gorgas Landfills	Pratt + Mine Backfill	0.0446 - 0.0558	ND - 0.0526	126.67

1. Concentrations presented in mg/L
2. ND - Not detected above Method Detection Limit (MDL)
3. Top of screen and bottom of screen depths are calculated relative to Top of Casing elevation and less the well sump length of 0.4' or 0.5'.
4. Data updated April 2021

Appendix A



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-21										GS-AP-MW-8		
		03/06/2019	08/28/2019	03/09/2020	10/13/2020	04/28/2021	09/14/2021	03/17/2022	09/26/2022	05/02/2023	10/11/2023	08/03/2016	09/21/2016	10/25/2016
Appendix III														
Boron	mg/L	0.0619 J	0.0879 J	0.101	0.0973 J	0.0976 J	0.0892 J	0.089 J	0.0869 J	0.0986 J	0.0915 J	0.0239 J	<0.02	<0.02
Calcium	mg/L	60.1	63.5	52.4	51.7	55.5	56.7	54.6	63.8	58	63.9	6.85	11.7	10.8
Chloride	mg/L	9.18	9.75	14.6	14.4	14.4	6.73	11.1	10	21	9.32	3.21	2.95	3.03
Fluoride	mg/L	0.169	0.212	0.285	0.283	0.217	0.182	0.127	0.158	0.223	0.145	0.125 J	0.098 J	0.025 J
pHField	SU	7.26	7.42	7.7	7.68	7.73	7.83	7.72	7.36	7.65	7.49	5.84	5.99	5.94
Sulfate	mg/L	116	108	111	135	136	139	137	134	141	134	4.2	4.27	2.78
TDS	PPT	397	446	496	534	499	440	460	459	552	451	113	128	121
Appendix IV														
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00106 J	0.00129 J	0.00472 J	0.00366 J	0.00292	0.00104	0.00137	0.00117	0.00323	0.000954	0.00214 J	0.00112 J	<0.001
Barium	mg/L	0.0629	0.314	0.469	0.381	0.25	0.148	0.142	0.133	0.189	0.134	0.0274	0.0811	0.0576
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.000708 J	0.000634 J	0.000243 J	0.000247 J	<0.000203	0.00022 J	<0.002	0.00266 J	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	0.000291	0.000166 J	7.53e-005 J	8.71e-005 J	0.000109 J	0.000133 J	0.0026 J	0.00362 J	0.00305 J
Combined Radium 226+228	pCi/L	0.24 U	0.908	0.202 U	0.683	0.683 U	0.833 U	0.7 U	1.23	1.11 U	0.819 U	0.299 U	0.835	0.0629 U
Fluoride	mg/L	0.169	0.212	0.285	0.283	0.217	0.182	0.127	0.158	0.223	0.145	0.125 J	0.098 J	0.025 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	0.000323	0.000195 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001
Lithium	mg/L	0.0484	0.0493	0.0252	0.0379	0.045	0.0657	0.054	0.0548	0.0448	0.0567	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.00411 J	0.00208 J	<0.002	<0.002	0.00251	0.000976	0.0005	0.000416	<0.005075	<0.005075	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GS-AP-MW-8														
		12/13/2016	02/06/2017	03/28/2017	04/24/2017	06/07/2017	08/21/2017	02/19/2018	05/15/2018	10/16/2018	04/16/2019	09/24/2019	03/18/2020	09/21/2020	02/02/2021	08/10/2021
Appendix III																
Boron	mg/L	<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
Calcium	mg/L	5.86	9.76	5.28	6.89	3.58	3.38	--	4.25	3.21	4.43	7.24	4.51	5.19	4.35	4.47
Chloride	mg/L	3.21	3	3.3	3.8	3.5	3.6	--	3.3	3.3	3.69	3.21	4.35	3.22	3.85	4.04
Fluoride	mg/L	0.045 J	0.1	0.08 J	0.09 J	0.08 J	0.08 J	0.08 J	0.1	0.09 J	0.143	0.128	0.108	0.125	0.114	0.0924 J
pHField	SU	5.84	5.9	5.67	5.79	5.71	5.7	5.78	5.84	5.75	5.76	5.27	5.81	5.75	5.69	5.02
Sulfate	mg/L	3.18	3.74	3.4 J	2.7 J	2.7 J	3.9 J	--	2.5 J	2.4 J	4.53	6.61	4.86	4.69	4.83	3.77
TDS	PPT	101	108	91	89.3	84	91.3	--	94.7	76.7	92	109	90.7	94	98.7	101
Appendix IV																
Antimony	mg/L	0.00067 J	<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	<0.001	0.00111 J	0.00109 J	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000228	0.00039
Barium	mg/L	0.0241	0.0747	0.0183	0.04	0.00769 J	--	0.00762 J	0.00701 J	0.0094 J	0.00459 J	0.0434	0.00507 J	0.026	0.0068	0.00805
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	<0.000406	<0.000406
Cadmium	mg/L	<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	0.00322 J	<0.002	0.00227 J	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000389 J	0.000579 J
Cobalt	mg/L	<0.002	0.00308 J	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	0.00234 J	<0.002	<0.002	0.000384	0.000586
Combined Radium 226+228	pCi/L	0.547	0.251 U	-0.109 U	0.293 U	0.529	--	0.497	-0.601 U	0.2 U	0.733	0.753	0.465 U	1.25	0.223 U	0.77 U
Fluoride	mg/L	0.045 J	0.1	0.08 J	0.09 J	0.08 J	0.08 J	0.08 J	0.1	0.09 J	0.143	0.128	0.108	0.125	0.114	0.0924 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	8.09e-005 J	0.000149 J
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	0.00796 J	0.00832 J
Mercury	mg/L	<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	<6.8e-005	<6.8e-005
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	<0.000507	<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	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GS-AP-MW-8				MR-AP-MW-22S								MR-AP-MW-22I		
		02/16/2022	08/02/2022	03/27/2023	09/18/2023	10/14/2020	04/20/2021	06/16/2021	09/15/2021	03/16/2022	09/21/2022	05/03/2023	10/04/2023	10/20/2020	04/20/2021	06/16/2021
Appendix III																
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	0.134	0.0628 J	0.0677 J	0.062 J	0.0672 J	0.0663 J	0.0685 J	0.0803 J	0.173	0.135	0.134
Calcium	mg/L	4.42	5.28	4.77	6.08	46.6	79	97.6	97.9	97.5	127	117	136	8.61	3.66	3.4
Chloride	mg/L	4.42	4.35	4.17	3.07	163	91.2	128	112	127	127	123	223	247	79.8	85.8
Fluoride	mg/L	0.0616 J	0.0815 J	0.112 J	0.106 J	0.337	0.158	0.231	0.208	0.145	0.124 J	0.152	0.133	0.311	0.246	0.283
pHField	SU	5.8	5.78	5.82	5.42	6.84	6.36	6.69	6.88	6.92	6.78	6.83	6.75	7.68	7.81	7.7
Sulfate	mg/L	4.68	4.18	4.41	10.1	184	145	147	146	174	169	178	197	36.4	31.4	17.1
TDS	PPT	90.7	97.3	100	91.3	730	590	612	662	648	710	715	833	780	474	455
Appendix IV																
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.000278	0.00016 J	0.000162 J	0.000244	0.00129 J	0.000373	0.000684	0.000381	0.000325	0.000564	0.000218	0.000182 J	0.00319 J	0.00111	0.000552
Barium	mg/L	0.00763	0.0116	0.00644	0.0289	0.122	0.0638	0.074	0.0635	0.053	0.0517	0.0472	0.0472	0.198	0.0624	0.0602
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000396 J	0.000629 J	0.000761 J	0.000368 J	<0.002	<0.000203	0.000281 J	0.00021 J	0.000269 J	0.000228 J	<0.000203	0.000297 J	<0.002	<0.000203	0.00022 J
Cobalt	mg/L	0.000548	0.00124	0.000254	0.00251	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	0.561 U	0.154 U	0.142 U	0.74 U	0.484	0.41 U	0.73 U	0.662 U	0.26 U	1.48	0.643 U	0.85 U	0.679	0.304 U	0.362 U
Fluoride	mg/L	0.0616 J	0.0815 J	0.112 J	0.106 J	0.337	0.158	0.231	0.208	0.145	0.124 J	0.152	0.133	0.311	0.246	0.283
Lead	mg/L	<6.8e-005	8.33e-005 J	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.00826 J	0.01 J	0.00968 J	0.00906 J	0.172	0.0694	0.0722	0.071	0.0631	0.0648	0.0777	0.0798	0.141	0.0728	0.0738
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	0.000118 J	<0.000102	<0.0005075	<0.0005075	<0.002	0.000515	0.00089	0.0004	0.000324	0.000304	<0.0005075	<0.0005075	0.00251 J	0.00172	0.000887
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-22I					MR-AP-MW-22D								MR-AP-MW-23	
		09/15/2021	03/16/2022	09/21/2022	05/03/2023	10/04/2023	10/26/2020	04/27/2021	06/16/2021	09/14/2021	03/17/2022	09/21/2022	05/03/2023	10/12/2023	03/09/2020	04/09/2020
Appendix III																
Boron	mg/L	0.122	0.121	0.114	0.12	0.118	0.149	0.17	0.171	0.153	0.153	0.157	0.118	0.102	0.756	0.799
Calcium	mg/L	2.74	2.66	2.98	2.61	4.53	49.7	58.1	64.5	64.2	71.2	66.9	30.6	33	128	119
Chloride	mg/L	62.1	47.3	96.9	32.9	144	2140	2190	2390	2650	2660	2780	523	868	2430	2440
Fluoride	mg/L	0.28	0.222	0.185	0.227	0.164	0.142	0.205	0.255	0.156	0.116 J	0.142	0.334	0.234	0.419	0.389
pHField	SU	8.06	7.94	8.09	8.35	8.02	7.78	7.88	7.87	8.29	7.96	7.82	8.76	8.75	7.6	7.65
Sulfate	mg/L	18.4	24.8	23	21	11.2	7.91	56.7	56.8	30.9	66.2	128	277	224	0.908 J	2.01
TDS	PPT	423	391	449	370	532	4010	3900	4030	4200	4600	4470	1400	1940	4720	4670
Appendix IV																
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508	0.000716 J	0.00114	<0.000508	0.000764 J	0.000751 J	<0.0008	0.00141 J
Arsenic	mg/L	0.000474	0.000259	0.000184 J	0.000154 J	0.000113 J	0.00188 J	0.00645	0.0047	0.00273	0.00354	0.00445	0.00258	0.00293	<0.001	<0.001
Barium	mg/L	0.0489	0.0367	0.0502	0.036	0.1	4.33	2.59	2.96	4.49	2.95	1.14	0.183	0.302	11	11.6
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003
Chromium	mg/L	0.000268 J	0.0003 J	0.000233 J	0.000244 J	0.000227 J	<0.002	0.000308 J	0.000678 J	0.000745 J	0.000659 J	0.000328 J	0.000377 J	0.000544 J	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.716 U	1.01 U	1.13	0.833 U	0.183 U	2.3	1.97	2.99	2.3	1.17	2.06	0.095 U	1.05 U	4.4	--
Fluoride	mg/L	0.28	0.222	0.185	0.227	0.164	0.142	0.205	0.255	0.156	0.116 J	0.142	0.334	0.234	0.419	0.389
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	7.08e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001
Lithium	mg/L	0.0621	0.0469	0.0542	0.0503	0.0611	0.344	0.406	0.342	0.46	0.369	0.373	0.17	0.135	1.18	1.05
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	0.00102	0.00135	0.00098	<0.005075	<0.005075	0.00248 J	0.009	0.0127	0.00811	0.00897	0.0163	0.0282	0.021	0.005 J	0.00449 J
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-23							GS-AP-MW-17V							
		10/14/2020	05/05/2021	09/15/2021	03/15/2022	09/14/2022	05/01/2023	10/04/2023	02/20/2019	09/24/2019	03/25/2020	09/23/2020	02/02/2021	08/02/2021	02/14/2022	05/11/2022
Appendix III																
Boron	mg/L	0.762	0.765	0.736	0.709	0.714	0.726	0.695	0.0337 J	0.0532 J	0.0482 J	0.0478 J	0.0396 J	0.0368 J	0.0386 J	--
Calcium	mg/L	123	134	128	117	147	143	134	30.6	29.7	31.1	29.3	31.8	33	30.1	--
Chloride	mg/L	2440	2670	2940	2450	2800	2600	2630	3.56	3.69	3.72	3.74	3.49	3.12	3.26	--
Fluoride	mg/L	0.422	0.409	0.433	0.403	0.41	0.371	0.33	0.239	0.245	0.243	0.278	0.244	0.276	0.237	--
pHField	SU	7.66	7.7	7.78	7.61	7.59	7.59	7.63	7.76	7.65	7.63	7.53	7.58	7.65	7.43	--
Sulfate	mg/L	1.1	1.38	7.45	0.862 J	<0.6	3.55	1.62 J	15.2	11.8	9.69	11.1	8.81	10.2	9.09	--
TDS	PPT	4840	4620	4630	4680	4870	4860	4700	346	365	364	368	356	333	365	--
Appendix IV																
Antimony	mg/L	<0.0008	<0.000507	0.00056 J	0.000896 J	<0.000508	0.00113	<0.00071	0.00115 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	--
Arsenic	mg/L	<0.001	0.000426	0.000525	0.000383	0.000219	0.000474	0.000572	0.0011 J	0.00149 J	<0.001	<0.001	0.000243	0.000135 J	0.000469	--
Barium	mg/L	12.4	11.9	12.2	11.7	12.4	12.8	11.7	0.191	0.208	0.314	0.299	0.308	0.353	0.315	--
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	--
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	--
Chromium	mg/L	<0.002	0.0011	0.000515 J	0.00039 J	<0.000203	0.000248 J	0.00034 J	<0.002	0.00405 J	<0.002	<0.002	0.000313 J	0.000323 J	0.000205 J	--
Cobalt	mg/L	<0.002	0.000185 J	<6.8e-005	7.81e-005 J	<6.8e-005	8.77e-005 J	8.86e-005 J	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	--
Combined Radium 226+228	pCi/L	4.78	6.25	7.07	6.96	6.2	7.55	7.14	0.398 U	0.373 U	0.0656 U	0.542 U	0.448 U	0.738 U	7.76	0.553 U
Fluoride	mg/L	0.422	0.409	0.433	0.403	0.41	0.371	0.33	0.239	0.245	0.243	0.278	0.244	0.276	0.237	--
Lead	mg/L	<0.001	0.00019 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00189 J	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	--
Lithium	mg/L	1.2	1.13	1.16	0.911	0.87	1.3	0.838	0.0671	0.0809	0.0646	0.0574	0.0585	0.056	0.0499	--
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	--
Molybdenum	mg/L	0.00351 J	0.00321	0.00282	0.00221	0.000638	<0.005075	<0.005075	0.00577 J	0.00906 J	0.00508 J	0.00664 J	0.00252	0.00206	0.00276	--
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	--
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	GS-AP-MW-17V			MR-AP-MW-23A								MR-AP-MW-1			
		08/09/2022	03/22/2023	09/11/2023	10/14/2020	04/27/2021	06/16/2021	09/15/2021	03/16/2022	09/14/2022	05/01/2023	10/04/2023	07/25/2016	09/26/2016	11/02/2016	01/11/2017
Appendix III																
Boron	mg/L	0.0418 J	0.0379 J	0.0388 J	0.706	0.694	0.697	0.673	0.668	0.633	0.659	0.64	0.0978 J	0.0625 J	0.067 J	0.0588 J
Calcium	mg/L	31.4	29.6	31.1	118	125	138	129	128	131	138	146	153	122	114	112
Chloride	mg/L	3.09	2.8	2.83	2510	2510	2740	2640	2520	2570	2670	2560	14.1	13.3	12.1	11.6
Fluoride	mg/L	0.245	0.198	0.278	0.429	0.363	0.412	0.436	0.394	0.393	0.412	0.347	0.134 J	0.061 J	0.024 J	<0.01
pHField	SU	7.55	7.61	7.61	7.46	7.45	7.29	7.53	7.48	7.43	7.4	7.54	7.52	8.96	8.51	8.5
Sulfate	mg/L	8.13	10.6	10.7	5.51	27.9	26.1	26.5	33.5	47	52.3	85.5	585	480	462	515
TDS	PPT	344	344	338	4620	4610	4720	4800	4520	4920	4960	4810	1060	852	888	920
Appendix IV																
Antimony	mg/L	<0.000508	<0.00071	<0.00071	<0.0008	0.000758 J	<0.000508	0.000571 J	0.00109	<0.000508	0.00148	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.000807	0.000293	0.000554	0.0014 J	0.00164	0.0019	0.00416	0.00449	0.00612	0.00459	0.0044	0.0046 J	0.00317 J	0.00321 J	0.00286 J
Barium	mg/L	0.292	0.289	0.288	9.8	6.89	6.51	6.53	6.68	5.09	6.16	2.12	0.0656	0.041	0.0578	0.0603
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.000291 J	<0.000203	<0.000203	<0.002	<0.000203	0.00065 J	0.0004 J	0.000305 J	0.000589 J	0.000286 J	0.000396 J	0.00711 J	0.0166	0.00481 J	0.00431 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	0.000718	0.000678	0.000421	0.00294	0.000482	0.000792	0.000642	<0.002	<0.002	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.584 U	0.707 U	0.308 U	4.46	1.21	3.11	2.48	1 U	0.517 U	1.37	0.825 U	--	0.499	0.637 U	0.475 U
Fluoride	mg/L	0.245	0.198	0.278	0.429	0.363	0.412	0.436	0.394	0.393	0.412	0.347	0.134 J	0.061 J	0.024 J	<0.01
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0555	0.0507	0.0516	1.17	1.05	0.873	1.04	0.815	0.774	1.18	0.791	0.187	0.134	0.137	0.137
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	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.00298	<0.005075	<0.005075	<0.002	0.00575	0.00481	0.00349	0.00535	0.00478	0.00625 J	0.0137	0.0108	0.0105	0.0107	0.0101
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-1														
		02/13/2017	03/30/2017	04/03/2017	05/15/2017	06/14/2017	09/19/2017	01/29/2018	05/09/2018	10/09/2018	05/01/2019	08/27/2019	03/09/2020	10/19/2020	04/20/2021	09/08/2021
Appendix III																
Boron	mg/L	0.0561 J	--	0.0631 J	0.0636 J	0.0603 J	0.0559 J	--	0.0437 J	0.0559 J	<0.0609	0.0869 J	0.0747 J	0.0512 J	0.0653 J	0.0505 J
Calcium	mg/L	132	--	168	104	122	98.6	--	141	94.1	47.9	165	126	32.6	36.2	78.8
Chloride	mg/L	14	--	11	13	13	13	--	11	12	15	8.75	19.6	16	12.9	10.8
Fluoride	mg/L	0.13	--	0.15	0.14	0.15	0.17	0.15	0.17	0.19	0.143	0.159	0.179	0.16	0.165	0.188
pHField	SU	8.63	8.67	7.63	8.67	8.39	8.78	8.84	8.49	9.04	11.01	7.48	11.95	11.44	9.55	9.19
Sulfate	mg/L	--	470	560	410	450	430	--	460	420	309	639	341	233	305	472
TDS	PPT	848	--	1000	870	910	824	--	1020	830	694	1120	815	530	630	858
Appendix IV																
Antimony	mg/L	<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	0.0024 J	--	0.00232 J	0.00183 J	0.00151 J	--	0.00284 J	0.00109 J	0.00174 J	0.00229 J	0.00211 J	0.0058	0.00351 J	0.00225	0.00219
Barium	mg/L	0.0946	--	0.0996	0.0753	0.0821	--	0.0814	0.116	0.0933	0.0672	0.0555	0.0285	0.0295	0.0454	0.101
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	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	--	<0.0002	<0.0002	<0.0002	--	0.000372 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	0.0061 J	--	0.00215 J	0.0123	0.00558 J	--	0.00287 J	<0.002	0.00248 J	<0.002	0.00336 J	0.0105	0.00527 J	0.00235	0.00143
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	0.000113 J	7.8e-005 J
Combined Radium 226+228	pCi/L	0.0464 U	--	0.335 U	0.409 U	0.261 U	--	0.693	0.413 U	0.338 U	0.312 U	0.696	0.726	-0.37 U	0.44 U	0.396 U
Fluoride	mg/L	0.13	--	0.15	0.14	0.15	0.17	0.15	0.17	0.19	0.143	0.159	0.179	0.16	0.165	0.188
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	<6.8e-005	<6.8e-005
Lithium	mg/L	0.187	--	0.225	0.15	0.165	--	0.124	0.166	0.136	0.104	0.264	0.123	0.09	0.154	0.179
Mercury	mg/L	<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	0.00994 J	--	0.00788 J	0.00866 J	0.00779 J	--	0.0109	0.00618 J	0.00745 J	0.00932 J	0.00563 J	0.0142	0.0116	0.0072	0.00649
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	<0.000507	<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	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
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3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-1			MR-AP-MW-2											
		03/15/2022	09/19/2022	05/02/2023	07/25/2016	09/28/2016	11/01/2016	01/11/2017	02/14/2017	04/04/2017	05/16/2017	06/14/2017	09/20/2017	01/30/2018	05/09/2018	10/09/2018
Appendix III																
Boron	mg/L	0.0528 J	0.0597 J	0.0572 J	0.0922 J	0.126	0.0959 J	0.0976 J	0.147	0.121	0.167	0.159	0.148	--	0.145	0.15
Calcium	mg/L	98.1	182	130	209	240	213	218	244	234	241	241	235	--	246	272
Chloride	mg/L	10.4	9.01	9.27	5.13	4	4.99	6.72	7.4	8.3	6.6	6	8.3	--	8.7	8
Fluoride	mg/L	0.142	0.164	0.181	0.094 J	0.035 J	<0.01	<0.01	0.05 J	0.07 J	0.07 J	0.06 J	0.12	0.1	0.13	0.1
pHField	SU	8.71	8.09	8.6	6.03	5.96	6.02	6.11	6.16	6.1	6.12	6.11	6.16	6.17	5.92	6.21
Sulfate	mg/L	512	548	445	1340	1680	1430	1550	1500	1700	1500	1700	1400	--	1300	1500
TDS	PPT	897	1060	920	0	2420	2180	2320	2380	2360	2400	2520	2500	--	2040	2460
Appendix IV																
Antimony	mg/L	<0.000508	<0.000508	0.0255	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008
Arsenic	mg/L	0.0021	0.00247	0.00202	0.00267 J	0.00163 J	0.00197 J	0.00168 J	0.00175 J	0.00148 J	0.00156 J	0.00154 J	--	0.0013 J	0.00121 J	0.00156 J
Barium	mg/L	0.12	0.199	0.148	0.0266	0.0246	0.0186	0.0157	0.0183	0.016	0.0162	0.016	--	0.016	0.0143	0.0136
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<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	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	0.000219 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003
Chromium	mg/L	0.00199	0.00148	0.0042	<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	0.000381	0.00108	0.000545	0.103	0.108	0.0813	0.0669	0.084	0.0829	0.0815	0.077	--	0.0499	0.0534	0.0525
Combined Radium 226+228	pCi/L	0.754 U	0.933 U	1.38	0.817	0.336 U	0.00962 U	0.844	0.444 U	0.379 U	0.37 U	0.875	--	1.11	0.301 U	1.04
Fluoride	mg/L	0.142	0.164	0.181	0.094 J	0.035 J	<0.01	<0.01	0.05 J	0.07 J	0.07 J	0.06 J	0.12	0.1	0.13	0.1
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<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	0.156	0.204	0.206	0.163	0.197	0.172	0.19	0.292	0.292	0.25	0.237	--	0.222	0.237	0.25
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.00568	0.00547	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<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	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	0.000214 J	<0.0002	<0.0002	0.000219 J	0.000202 J	<0.0002	0.000266 J	--	<0.0002	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
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3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-2										MR-AP-MW-3S				
		05/01/2019	08/27/2019	03/03/2020	10/21/2020	04/26/2021	09/14/2021	03/16/2022	09/26/2022	05/02/2023	10/10/2023	07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/13/2017
Appendix III																
Boron	mg/L	0.24	0.192	0.167	0.316	0.173	0.188	0.165	0.153	0.216	0.173	0.195	0.179	0.19	0.196	0.187
Calcium	mg/L	272	251	278	212	252	226	239	208	251	278	5.63	4.28	4.04	4.15	4.38
Chloride	mg/L	5.04	7.95	8.59	9.47	9.31	5.88	6.88	5.2	4.85	6.83	25	23.6	24.4	24.3	28
Fluoride	mg/L	0.108	0.19	0.262	0.236	0.406	0.24	0.268	0.211	0.321	0.232	0.217 J	0.192 J	0.157 J	0.115 J	0.27
pHField	SU	6.25	6.25	6.27	6.29	6.33	6.58	6.14	6.37	6.12	6.18	8.95	9.13	9.04	9.62	9.43
Sulfate	mg/L	1580	1570	1690	1360	1580	1690	1630	1570	1570	1530	237	105	94.9	131	--
TDS	PPT	2370	2470	2520	2190	2560	2400	2420	2350	2400	2390	704	594	572	608	584
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	0.000787 J	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.0039 J	0.00194 J	0.00238 J	0.00346 J	0.00346	0.0043	0.00394	0.00401	0.00514	0.00403	0.00172 J	0.00246 J	0.00224 J	0.00251 J	0.00179 J
Barium	mg/L	0.0164	0.0177	0.0172	0.0185	0.0167	0.0197	0.0147	0.0164	0.0175	0.0164	0.083	0.0616	0.073	0.0791	0.101
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.00021 J	0.000513 J	<0.000203	<0.000203	<0.000203	0.000268 J	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0642	0.0498	0.0471	0.0368	0.0358	0.0515	0.0444	0.0522	0.0538	0.0451	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.29 U	0.615	0.361 U	0.448 U	0.378 U	0.96 U	0.589 U	0.479 U	0.831 U	0.693 U	-0.019 U	0.488 U	0.147 U	0.288 U	0.226 U
Fluoride	mg/L	0.108	0.19	0.262	0.236	0.406	0.24	0.268	0.211	0.321	0.232	0.217 J	0.192 J	0.157 J	0.115 J	0.27
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.228	0.257	0.269	0.217	0.268	0.27	0.211	0.221	0.273	0.22	0.186	0.149	0.161	0.156	0.244
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	0.00458 J	0.0018	0.0021	0.00207	0.00166	<0.005075	<0.005075	0.0307	0.0341	0.028	0.0303	0.0295
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-3S														
		03/29/2017	04/03/2017	05/16/2017	06/12/2017	09/20/2017	01/29/2018	05/10/2018	10/09/2018	04/22/2019	08/27/2019	03/03/2020	10/13/2020	05/05/2021	09/07/2021	03/16/2022
Appendix III																
Boron	mg/L	--	0.192	0.178	0.181	0.188	--	0.183	0.202	0.183 J	0.209	0.217	0.271	0.281	0.276	0.276
Calcium	mg/L	--	4.45	4.23	4.14	3.88	--	3.79	3.78	16.8	9.68	9.94	6.81	7.04	6.69	5.38
Chloride	mg/L	--	31	31	32	30	--	34	32	242	145	177	96.3	76.5	78.6	79.4
Fluoride	mg/L	--	0.25	0.24	0.26	0.26	0.31	0.31	0.33	0.335	0.294	0.286	0.311	0.291	0.361	0.309
pHField	SU	9.04	9.18	9.11	9.54	9.69	9.76	9.44	9.34	9.17	9.23	9.4	9.04	9.1	8.84	9.05
Sulfate	mg/L	160	180	160	160	140	--	120	130	249	248	298	236	224	243	227
TDS	PPT	--	606	608	644	592	--	606	536	930	837	953	793	748	706	698
Appendix IV																
Antimony	mg/L	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00126 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	--	0.00128 J	0.00124 J	0.0018 J	--	0.00264 J	0.00262 J	0.00206 J	0.00275 J	0.00222 J	0.00199 J	<0.001	0.000735	0.000878	0.000737
Barium	mg/L	--	0.109	0.108	0.0919	--	0.118	0.133	0.121	0.447	0.395	0.347	0.22	0.149	0.17	0.149
Beryllium	mg/L	--	<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	--	<0.0003	<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	0.000646 J	0.000417 J	0.000339 J
Cobalt	mg/L	--	<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	--	-0.154 U	0.303 U	0.645	--	0.627	-0.0676 U	0.571	0.678	1.17	0.821	-0.0678 U	0.195 U	0.0456 U	0.207 U
Fluoride	mg/L	--	0.25	0.24	0.26	0.26	0.31	0.31	0.33	0.335	0.294	0.286	0.311	0.291	0.361	0.309
Lead	mg/L	--	<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	--	0.25	0.199	0.188	--	0.164	0.183	0.175	0.243	0.246	0.294	0.347	0.358	0.347	0.271
Mercury	mg/L	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000318 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	0.0261	0.0281	0.0298	--	0.037	0.0331	0.0377	0.068	0.0557	0.0648	0.0517	0.0449	0.0511	0.0488
Selenium	mg/L	--	<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	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-3S			MR-AP-MW-3D											
		09/19/2022	05/02/2023	10/03/2023	07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/13/2017	03/29/2017	04/03/2017	05/16/2017	06/12/2017	09/20/2017	01/29/2018	05/10/2018
Appendix III																
Boron	mg/L	0.272	0.245	0.239	0.527	0.54	0.586	0.584	0.567	--	0.527	0.477	0.491	0.505	--	0.425
Calcium	mg/L	4.9	8.78	5.03	296	269	266	282	268	--	282	234	232	211	--	219
Chloride	mg/L	70.9	84.3	66.6	52.7	50.6	52.6	51.4	56	--	55	55	57	43	--	37
Fluoride	mg/L	0.304	0.311	0.264	0.268 J	0.213 J	0.158 J	0.109 J	0.29	--	0.28	0.3	0.29	0.35	0.35	0.37
pHField	SU	8.73	9.28	8.76	6.72	6.76	6.72	6.73	6.73	6.68	6.73	6.71	6.79	6.8	6.82	6.79
Sulfate	mg/L	159	161	129	900	814	800	833	--	760	860	630	710	590	--	540
TDS	PPT	644	638	574	1530	1480	1430	1500	1380	--	1370	1300	1300	1180	--	1060
Appendix IV																
Antimony	mg/L	<0.000508	<0.00071	0.00289	0.000725 J	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.000783	0.00114	0.000607	0.0105	0.0106	0.0111	0.0119	0.0122	--	0.0115	0.0103	0.0108	--	0.0119	0.0111
Barium	mg/L	0.146	0.149	0.13	0.032	0.0222	0.0235	0.0229	0.0259	--	0.0244	0.0229	0.0246	--	0.0282	0.0243
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	0.000343 J	0.000885 J	0.00045 J	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	0.00012 J	<6.8e-005	0.00796 J	0.00839 J	0.00889 J	0.00787 J	0.00873 J	--	0.00861 J	0.00736 J	0.00684 J	--	0.00548 J	0.00529 J
Combined Radium 226+228	pCi/L	0.714 U	1.05 U	0.393 U	0.251 U	0.638	0.521 U	0.744	-0.0115 U	--	0.0879 U	0.137 U	0.589	--	0.634	0.147 U
Fluoride	mg/L	0.304	0.311	0.264	0.268 J	0.213 J	0.158 J	0.109 J	0.29	--	0.28	0.3	0.29	0.35	0.35	0.37
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.261	0.274	0.203	0.128	0.12	0.128	0.124	0.167	--	0.163	0.12	0.119	--	0.11	0.112
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.0506	0.0661	0.0668	0.0216	0.0226	0.0209	0.0219	0.0235	--	0.0238	0.0232	0.0226	--	0.0236	0.0219
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-3D											MR-AP-MW-4			
		10/09/2018	04/29/2019	08/27/2019	03/03/2020	10/13/2020	05/05/2021	09/07/2021	03/16/2022	09/19/2022	05/02/2023	10/03/2023	07/19/2016	09/27/2016	11/01/2016	01/09/2017
Appendix III																
Boron	mg/L	0.471	0.407	0.443	0.422	0.492	0.451	0.499	0.428	0.389	0.324	0.299	0.496	0.514	0.571	0.572
Calcium	mg/L	242	186	189	170	162	153	158	116	145	94.5	114	333	320	305	329
Chloride	mg/L	41	40.7	34.7	29.1	25.9	21	21.2	15	13.3	6.52	6.99	40.8	47.1	49.7	48.8
Fluoride	mg/L	0.39	0.343	0.361	0.397	0.362	0.351	0.433	0.388	0.341	0.348	0.272	0.252 J	0.209 J	0.163 J	0.13 J
pHField	SU	6.88	6.81	6.84	6.85	6.9	6.9	6.86	7.04	6.77	6.82	6.5	5.82	5.85	5.79	5.83
Sulfate	mg/L	700	484	529	488	473	501	513	352	352	264	292	981	958	933	896
TDS	PPT	1220	956	960	840	937	883	924	698	756	630	0	1520	1540	1510	1510
Appendix IV																
Antimony	mg/L	<0.0008	0.00118 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	0.00447	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.01	0.0108	0.0111	0.0118	0.015	0.0116	0.011	0.0107	0.0128	0.0126	0.0136	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0234	0.0404	0.0334	0.0304	0.0293	0.0247	0.0259	0.0247	0.0339	0.0292	0.0346	0.0165	0.0139	0.0141	0.0144
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000302 J	0.00021 J	0.000239 J	0.000248 J
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000269 J	0.000327 J	0.000333 J	<0.000203	0.000259 J	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00683	0.00555	0.00562	0.00456 J	0.00555	0.00451	0.00455	0.00378	0.00397	0.00405	0.00359	0.0427	0.0401	0.0374	0.0291
Combined Radium 226+228	pCi/L	0.693	0.0878 U	0.491 U	0.258 U	-0.209 U	1.06 U	0.332 U	0.257 U	0.804 U	0.857 U	1.11 U	0.621	0.529 U	0.142 U	0.54 U
Fluoride	mg/L	0.39	0.343	0.361	0.397	0.362	0.351	0.433	0.388	0.341	0.348	0.272	0.252 J	0.209 J	0.163 J	0.13 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	8.4e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.123	0.104	0.115	0.11	0.121	0.116	0.12	0.0914	0.101	0.104	0.0938	0.105	0.0988	0.104	0.102
Mercury	mg/L	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0228	0.0265	0.026	0.024	0.0265	0.0243	0.0254	0.0266	0.0264	0.0293	0.0267	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	0.0023 J	<0.002	0.00278 J
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-4														
		02/13/2017	03/30/2017	04/04/2017	05/16/2017	06/12/2017	09/20/2017	01/29/2018	05/09/2018	10/08/2018	04/29/2019	08/27/2019	03/04/2020	10/14/2020	04/26/2021	09/01/2021
Appendix III																
Boron	mg/L	0.565	--	0.536	0.482	0.478	0.506	--	0.433	0.503	0.45	0.495	0.431	0.46	0.412	0.46
Calcium	mg/L	291	--	287	279	258	249	--	212	245	259	252	210	194	193	213
Chloride	mg/L	46	--	50	50	52	45	--	39	41	40.8	42.3	40.1	30.8	24.8	24.6
Fluoride	mg/L	0.28	--	0.27	0.28	0.27	0.31	0.28	0.28	0.32	0.228	0.237	0.221	0.251	0.204	0.281
pHField	SU	5.78	5.73	5.7	5.72	5.83	5.86	5.86	5.85	5.86	5.91	6.04	5.96	5.93	5.75	5.76
Sulfate	mg/L	--	930	870	780	790	710	--	600	650	770	670	604	527	554	637
TDS	PPT	1460	--	1270	1420	1380	1270	--	1040	1180	1150	1120	904	934	930	1050
Appendix IV																
Antimony	mg/L	<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	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000368	0.000402
Barium	mg/L	0.0145	--	0.013	0.0121	0.0133	--	0.0137	0.0142	0.0119	0.0148	0.014	0.0137	0.0127	0.0115	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	<0.000406	<0.000406
Cadmium	mg/L	0.00031 J	--	0.000241 J	0.000266 J	0.000272 J	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	7.3e-005 J	7.63e-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	<0.000203	0.000292 J
Cobalt	mg/L	0.0368	--	0.0348	0.0379	0.0376	--	0.0171	0.0128	0.011	0.0201	0.0157	0.0119	0.0117	0.00667	0.00719
Combined Radium 226+228	pCi/L	0.764	--	-0.136 U	0.247 U	0.6	--	0.786	-0.00808 U	0.311 U	0.039 U	0.533	0.31 U	0.434 U	0.394 U	0.238 U
Fluoride	mg/L	0.28	--	0.27	0.28	0.27	0.31	0.28	0.28	0.32	0.228	0.237	0.221	0.251	0.204	0.281
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	<6.8e-005	<6.8e-005
Lithium	mg/L	0.136	--	0.134	0.1	0.0992	--	0.0852	0.0926	0.0877	0.0738	0.0741	0.0851	0.0651	0.0758	0.0716
Mercury	mg/L	<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	8.18e-005 J	7.03e-005 J
Selenium	mg/L	0.00291 J	--	0.00343 J	0.003 J	0.00255 J	--	0.00273 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00112	0.000772 J
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	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-4				MR-AP-MW-5										
		03/15/2022	09/26/2022	05/02/2023	10/10/2023	07/26/2016	09/28/2016	11/02/2016	01/10/2017	02/14/2017	04/03/2017	05/17/2017	06/12/2017	09/18/2017	01/31/2018	05/09/2018
Appendix III																
Boron	mg/L	0.423	0.36	0.382	0.446	0.873	0.857	0.909	0.915	0.932	0.932	0.953	0.854	0.921	--	0.851
Calcium	mg/L	159	180	146	205	315	324	305	319	341	329	296	263	292	--	265
Chloride	mg/L	19	17.3	19.6	21.4	39.1	40.9	44.1	45.2	44	48	53	53	45	--	45
Fluoride	mg/L	0.154	0.22	0.17	0.182	0.296 J	0.224 J	0.164 J	0.114 J	0.31	0.3	0.29	0.29	0.37	0.35	0.36
pHField	SU	6.27	6.05	6.07	6.36	7.01	7.06	7.02	7.17	7.01	7.09	7	7.08	7.09	7.13	7.03
Sulfate	mg/L	475	393	368	429	1040	1020	1000	995	950	1100	930	940	830	--	790
TDS	PPT	800	694	724	796	1630	1600	1640	1660	1600	1600	1630	1770	1530	--	1430
Appendix IV																
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.000199 J	0.000331	0.000146 J	0.000178 J	0.0112	0.00955	0.0129	0.0135	0.0141	0.0141	0.0138	0.0118	--	0.0142	0.0114
Barium	mg/L	0.0137	0.0165	0.0178	0.0194	0.0158	0.0153	0.0154	0.015	0.017	0.0148	0.0149	0.0154	--	0.0162	0.0144
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.000203	0.000278 J	<0.000203	0.000361 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.0039	0.00501	0.00283	0.00342	<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	0.285 U	0.525 U	0.203 U	0.771 U	0.205 U	0.403 U	0.483 U	0.687	0.5 U	0.637	0.421 U	0.353 U	--	0.38 U	0.515 U
Fluoride	mg/L	0.154	0.22	0.17	0.182	0.296 J	0.224 J	0.164 J	0.114 J	0.31	0.3	0.29	0.29	0.37	0.35	0.36
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	6.89e-005 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.0575	0.0674	0.064	0.0672	0.249	0.223	0.229	0.227	0.315	0.307	0.247	0.237	--	0.221	0.238
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.00011 J	0.000153 J	<0.005075	<0.005075	0.0718	0.0638	0.0665	0.067	0.0735	0.0719	0.0733	0.0655	--	0.076	0.061
Selenium	mg/L	<0.000508	<0.000508	0.000539 J	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	7.05e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-5											MR-AP-PZ-5			
		10/08/2018	04/23/2019	08/28/2019	03/02/2020	10/21/2020	05/03/2021	09/08/2021	03/14/2022	09/20/2022	04/25/2023	10/04/2023	07/26/2016	09/28/2016	11/02/2016	01/12/2017
Appendix III																
Boron	mg/L	0.833	0.846	0.852	0.851	0.847	0.864	0.843	0.867	0.915	0.955	1.02	0.434	0.454	0.46	0.471
Calcium	mg/L	290	329	279	267	242	249	245	250	251	229	228	52.8	246.4	61.3	47.7
Chloride	mg/L	44	43.8	47.1	42.1	35.8	31.1	27.9	26.1	23.1	22.4	21.8	30.5	31.1	30.2	29.8
Fluoride	mg/L	0.43	0.428	0.385	0.382	0.427	0.388	0.433	0.37	0.384	0.422	0.397	1.05	0.799	0.627	0.609
pHField	SU	7.26	7.03	7.08	7.18	7.07	6.96	7.08	6.92	7.03	7.37	7.1	7.88	7.8	7.86	7.9
Sulfate	mg/L	820	898	818	859	669	752	805	810	866	744	707	487	422	345	281
TDS	PPT	1300	1370	1370	1270	1190	1220	1220	1190	1140	1190	1200	1040	1000	920	812
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	0.000701 J
Arsenic	mg/L	0.0109	0.0117	0.0107	0.0122	0.0145	0.0111	0.0112	0.00988	0.00931	0.00879	0.00934	0.00314 J	0.00629	0.00438 J	0.0039 J
Barium	mg/L	0.0149	0.0159	0.0158	0.0155	0.0173	0.015	0.0175	0.0162	0.0171	0.0187	0.0189	0.11	0.0644	0.0781	0.0582
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.00026 J	<0.000203	<0.000203	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.921	1.12	0.81	0.407 U	-0.12 U	0.646 U	0.745 U	0.571 U	0.714 U	1.49	1.22 U	0.331 U	0.556 U	0.217 U	0.432 U
Fluoride	mg/L	0.43	0.428	0.385	0.382	0.427	0.388	0.433	0.37	0.384	0.422	0.397	1.05	0.799	0.627	0.609
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.232	0.228	0.237	0.237	0.193	0.228	0.229	0.189	0.195	0.241	0.203	0.228	0.158	0.179	0.166
Mercury	mg/L	<0.00025	0.0004 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0686	0.0722	0.0709	0.0725	0.0877	0.0726	0.0741	0.0762	0.0901	0.0935	0.105	0.0122	0.00843 J	0.00605 J	0.0049 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-PZ-5														
		02/13/2017	03/30/2017	04/03/2017	05/17/2017	06/12/2017	09/18/2017	01/31/2018	05/09/2018	10/08/2018	04/23/2019	08/29/2019	03/02/2020	10/21/2020	05/03/2021	09/08/2021
Appendix III																
Boron	mg/L	0.473	--	0.424	0.462	0.418	0.428	--	0.406	0.42	0.372	0.319	0.328	0.328	0.271	0.271
Calcium	mg/L	54	--	28.7	26.7	26.3	20.2	--	13.8	11.1	11.9	14.2	10.3	7.36	9.36	7.63
Chloride	mg/L	33	--	32	37	34	36	--	31	32	24.9	28.5	29.5	23.9	17.9	36.7
Fluoride	mg/L	0.88	--	1.1	1	1.1	1.1	1	1.1	1.3	1.33	2.07	1.9	1.89	2.38	2.27
pHField	SU	7.86	8.06	8	7.99	7.91	8.04	8.23	8.6	8.31	8.18	8.26	8.34	8.16	8.32	8.34
Sulfate	mg/L	--	160	190	190	150	86	--	29	4.7 J	8.17	92	19.8	7.39	48.2	33.4
TDS	PPT	832	--	710	718	724	616	--	486	464	478	734	594	594	762	690
Appendix IV																
Antimony	mg/L	0.00166 J	--	0.0008 J	0.000975 J	0.00107 J	--	<0.0006	0.00103 J	<0.0008	0.0009 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.00443 J	--	0.00206 J	0.00306 J	0.00203 J	--	0.00181 J	0.00291 J	0.00166 J	<0.001	0.00123 J	0.0013 J	0.00137 J	0.000109 J	0.000213
Barium	mg/L	0.0612	--	0.166	0.11	0.127	--	0.144	0.131	0.111	0.176	0.25	0.165	0.166	0.248	0.236
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	<0.000406	<0.000406
Cadmium	mg/L	<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	<0.000203	0.000205 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	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	0.279 U	--	0.195 U	0.569 U	0.48 U	--	0.851	0.171 U	0.44 U	0.267 U	0.355 U	0.213 U	0.0492 U	0.328 U	1.16 U
Fluoride	mg/L	0.88	--	1.1	1	1.1	1.1	1	1.1	1.3	1.33	2.07	1.9	1.89	2.38	2.27
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	<6.8e-005	<6.8e-005
Lithium	mg/L	0.243	--	0.216	0.177	0.161	--	0.133	0.139	0.137	0.134	0.164	0.147	0.127	0.177	0.17
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000311 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00784 J	--	0.00474 J	0.00447 J	0.003 J	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000438	0.000294
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	<0.000507	<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	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-PZ-5				MR-AP-MW-6										
		03/14/2022	09/20/2022	04/25/2023	10/04/2023	07/26/2016	09/28/2016	11/01/2016	01/09/2017	02/13/2017	03/29/2017	04/03/2017	05/16/2017	06/12/2017	09/18/2017	01/31/2018
Appendix III																
Boron	mg/L	0.245	0.251	0.249	0.255	0.835	0.807	0.838	0.848	0.869	--	0.881	0.81	0.832	0.864	--
Calcium	mg/L	6.95	6.51	5.85	5.67	135	141	137	140	141	--	141	145	144	144	--
Chloride	mg/L	30.7	22.2	17.1	27.1	24.8	24.9	26	25.1	28	--	29	30	31	29	--
Fluoride	mg/L	2.28	2.39	2.23	2.27	0.108 J	0.054 J	<0.01	<0.01	0.08 J	--	0.07 J	0.09 J	0.1	0.11	0.1
pHField	SU	8.47	8.07	8.46	8.35	5.98	6	6	6.04	6.04	6.01	6.02	5.92	5.99	6.04	6.05
Sulfate	mg/L	51.7	34.6	6.92	18.9	532	540	521	543	--	540	550	490	560	510	--
TDS	PPT	748	746	712	890	868	884	862	918	896	--	852	924	928	908	--
Appendix IV																
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006
Arsenic	mg/L	8.82e-005 J	0.00031	0.000191 J	0.000339	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001
Barium	mg/L	0.267	0.222	0.217	0.223	0.0266	0.0261	0.0265	0.0256	0.0286	--	0.0253	0.0268	0.026	--	0.0264
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0003
Chromium	mg/L	0.00024 J	<0.000203	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.0648	0.0673	0.0605	0.0504	0.065	--	0.0701	0.0725	0.0656	--	0.0564
Combined Radium 226+228	pCi/L	0.253 U	0.47 U	0.537 U	0.813 U	0.459 U	0.0516 U	0.279 U	0.114 U	-0.0383 U	--	0.429 U	0.0754 U	0.506	--	0.433 U
Fluoride	mg/L	2.28	2.39	2.23	2.27	0.108 J	0.054 J	<0.01	<0.01	0.08 J	--	0.07 J	0.09 J	0.1	0.11	0.1
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000355	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001
Lithium	mg/L	0.143	0.138	0.158	0.125	0.0874	0.0812	0.0841	0.0842	0.101	--	0.102	0.0778	0.0784	--	0.0732
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025
Molybdenum	mg/L	0.000335	0.000184 J	<0.005075	<0.005075	0.00707 J	0.00623 J	0.0059 J	0.00476 J	0.00615 J	--	0.00623 J	0.00662 J	0.00613 J	--	0.00656 J
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-6												MR-AP-MW-7SR		
		05/09/2018	10/08/2018	04/23/2019	08/28/2019	03/03/2020	10/20/2020	04/28/2021	09/01/2021	03/16/2022	09/21/2022	04/25/2023	10/03/2023	10/20/2020	04/27/2021	09/01/2021
Appendix III																
Boron	mg/L	0.878	0.905	0.862	0.906	0.895	0.947	0.923	0.921	0.887	0.851	0.865	0.573	0.726	0.708	0.72
Calcium	mg/L	150	150	167	148	155	148	172	160	160	189	147	147	92.8	89.7	92.1
Chloride	mg/L	32	33	33	32.5	35.3	34	36.7	34.6	33.2	31.9	32.7	29	22.9	23.1	23.4
Fluoride	mg/L	0.09 J	0.13	0.167	0.105	0.121	0.109	0.183	0.0995 J	0.155	<0.06	0.0863 J	0.108 J	0.222	0.242	0.245
pHField	SU	6.01	6.1	6.06	5.98	6.11	6.15	6.1	6.28	6.07	6.08	6.06	6.3	6.54	6.56	6.57
Sulfate	mg/L	500	490	638	609	600	513	551	575	587	535	549	426	268	288	279
TDS	PPT	908	882	882	903	926	876	937	973	894	914	896	814	588	624	646
Appendix IV																
Antimony	mg/L	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	0.00225	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000104 J	7.25e-005 J	0.000115 J	<8.1e-005	<0.000112	0.00086	0.00251 J	0.00254	0.0022
Barium	mg/L	0.0242	0.023	0.0256	0.0269	0.0257	0.0252	0.0241	0.0251	0.0228	0.0217	0.0235	0.0241	0.0466	0.0421	0.043
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000287 J	0.000232 J	0.000246 J	<0.000203	<0.000203	<0.002	0.000219 J	0.000255 J
Cobalt	mg/L	0.0641	0.0616	0.0471	0.0283	0.0186	0.00675	0.00574	0.00477	0.00531	0.00612	0.00983	0.00795	<0.002	0.000826	0.000776
Combined Radium 226+228	pCi/L	0.106 U	0.612	0.356	0.268 U	0.177 U	0.321 U	0.156 U	0.132 U	0.199 U	0.398 U	0.257 U	0.629 U	0.398 U	0.846 U	0.627 U
Fluoride	mg/L	0.09 J	0.13	0.167	0.105	0.121	0.109	0.183	0.0995 J	0.155	<0.06	0.0863 J	0.108 J	0.222	0.242	0.245
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000107 J	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.079	0.077	0.0822	0.0853	0.0877	0.0785	0.0865	0.0864	0.0731	0.0774	0.0898	0.0471	0.143	0.156	0.16
Mercury	mg/L	<0.00025	<0.00025	<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	0.00525 J	0.00565 J	0.00479 J	0.00285 J	0.00282 J	<0.002	0.00135	0.00174	0.00145	0.00202	<0.005075	<0.005075	0.0356	0.0324	0.0351
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-7SR				MR-AP-MW-7DR								MR-AP-MW-9SR			
		03/08/2022	09/20/2022	04/24/2023	10/03/2023	10/20/2020	04/27/2021	09/01/2021	03/08/2022	09/20/2022	04/24/2023	10/03/2023	10/15/2020	04/27/2021	09/01/2021	03/08/2022	
Appendix III																	
Boron	mg/L	0.711	0.695	0.672	0.689	0.745	0.758	0.768	0.759	0.767	0.746	0.75	0.11	0.138	0.144	0.117	
Calcium	mg/L	91.2	110	96.4	117	121	125	126	124	145	133	168	99.8	96.5	96.8	99.1	
Chloride	mg/L	24.3	22.9	24	22.5	43.2	51	54.7	54.3	61.6	52.6	53.1	12.5	9.96	10.9	8.44	
Fluoride	mg/L	0.223	0.177	0.195	0.173	0.122	0.126	0.16	<0.06	<0.06	0.115 J	0.109 J	0.114	0.125	0.162	0.125	
pHField	SU	6.61	6.5	6.54	6.37	6.78	6.8	6.77	6.81	6.69	6.7	6.62	6.42	6.36	6.33	6.28	
Sulfate	mg/L	279	281	293	311	384	390	398	407	414	421	398	339	342	335	349	
TDS	PPT	598	638	640	784	818	798	838	798	824	806	894	686	634	658	614	
Appendix IV																	
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	0.00177	0.00182	0.00156	0.00172	0.00547	0.00188	0.000979	0.000614	0.000694	0.000465	0.000432	0.0016 J	0.00112	0.000904	0.000786	
Barium	mg/L	0.0403	0.0384	0.0394	0.0396	0.0331	0.0262	0.028	0.0261	0.0287	0.0277	0.0281	0.0274	0.0184	0.0172	0.0169	
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	
Chromium	mg/L	0.00023 J	<0.000203	<0.000203	<0.000203	<0.002	<0.000203	0.000296 J	<0.000203	0.000282 J	<0.000203	<0.000203	<0.002	0.000204 J	0.000308 J	0.000204 J	
Cobalt	mg/L	0.00067	0.000748	0.00152	0.000604	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	0.000331	0.000161 J	0.000216	
Combined Radium 226+228	pCi/L	0.649 U	0.445 U	0.804 U	0.195 U	0.197 U	0.334 U	1.4	0.263 U	0.872 U	0.863 U	0.339 U	0.222 U	0.157 U	0.272 U	0.447 U	
Fluoride	mg/L	0.223	0.177	0.195	0.173	0.122	0.126	0.16	<0.06	<0.06	0.115 J	0.109 J	0.114	0.125	0.162	0.125	
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.139	0.155	0.173	0.155	0.12	0.13	0.13	0.105	0.108	0.124	0.106	0.0413	0.045	0.0464	0.04	
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	0.0333	0.0328	0.0282	0.0291	0.00424 J	0.00393	0.00458	0.00515	0.00717	<0.005075	0.0067 J	0.00213 J	0.0015	0.000468	0.000268	
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-9SR			MR-AP-MW-9DR							MR-AP-MW-13SR				
		09/21/2022	05/03/2023	09/27/2023	10/15/2020	04/27/2021	09/01/2021	03/08/2022	09/21/2022	05/03/2023	09/27/2023	10/20/2020	04/21/2021	09/07/2021	03/09/2022	09/19/2022
Appendix III																
Boron	mg/L	0.0905 J	0.111	0.114	<0.03	<0.03	<0.03	<0.03	0.24	0.272	0.228	0.0541 J	0.0404 J	0.0429 J	0.0421 J	0.0418 J
Calcium	mg/L	149	124	118	98.7	97.8	95.5	86.5	219	180	173	35.9	98.6	105	96.8	81.4
Chloride	mg/L	5.58	2.93	5.66	6.21	6.72	6.69	7.08	8.42	9.38	9.11	10.6	5.3	4.94	4.71	4.02
Fluoride	mg/L	0.0775 J	0.138	0.125	0.129	0.149	0.197	0.11 J	0.178	0.281	0.188	0.434	0.402	0.532	0.573	0.407
pHField	SU	6.49	6.34	6.19	6.67	6.68	6.66	6.75	6.71	6.46	6.35	6.28	6.19	5.98	6.05	5.65
Sulfate	mg/L	305	343	358	303	329	314	296	665	650	666	285	610	871	902	714
TDS	PPT	734	754	730	654	646	636	594	1230	1190	1120	604	1040	1310	1300	1100
Appendix IV																
Antimony	mg/L	<0.000508	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000807	0.000634	0.00076	<0.001	0.000587	0.000564	0.000858	0.000632	0.000541	0.00051	<0.001	0.00109	0.0013	0.00155	0.00187
Barium	mg/L	0.0186	0.0209	0.0208	0.0408	0.0368	0.0394	0.0393	0.0208	0.0217	0.0202	0.0466	0.0286	0.0277	0.0216	0.019
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	0.00166	0.00171	0.00241
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	9.6e-005 J	0.000378
Chromium	mg/L	<0.000203	<0.000203	<0.000203	<0.002	0.000284 J	0.000297 J	0.000241 J	0.000301 J	<0.000203	<0.000203	<0.002	0.000239 J	0.000339 J	0.000675 J	0.000275 J
Cobalt	mg/L	0.000115 J	0.0004	0.000124 J	<0.002	0.000206	0.000107 J	0.000128 J	0.000147 J	0.000156 J	9.05e-005 J	0.0112	0.0523	0.0816	0.0824	0.0931
Combined Radium 226+228	pCi/L	0.391 U	0.709 U	0.446 U	0.897	0.699 U	0.667 U	0.145 U	1.24	0.453 U	0.54 U	0.479 U	1.13	1.24 U	1.28	1.11 U
Fluoride	mg/L	0.0775 J	0.138	0.125	0.129	0.149	0.197	0.11 J	0.178	0.281	0.188	0.434	0.402	0.532	0.573	0.407
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	0.000112 J	0.0004
Lithium	mg/L	0.0421	0.0464	0.0419	0.0815	0.0818	0.0827	0.0682	0.0642	0.071	0.0583	0.0475	0.0237	0.0258	0.0215	0.028
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	0.000302	<0.005075	<0.005075	<0.002	0.00031	0.000345	0.00121	0.000304	<0.005075	<0.005075	0.00311 J	0.00029	0.000166 J	0.000137 J	0.00011 J
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	0.000598 J
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	7.01e-005 J	7.55e-005 J	0.000133 J	0.000159 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-13SR		MR-AP-MW-13DR							MR-AP-MW-14R					
		04/18/2023	09/26/2023	10/20/2020	04/21/2021	09/07/2021	03/09/2022	09/19/2022	04/18/2023	09/26/2023	10/20/2020	04/21/2021	09/13/2021	03/09/2022	09/26/2022	05/02/2023
Appendix III																
Boron	mg/L	0.04 J	0.0417 J	0.0304 J	0.0561 J	0.0476 J	0.0558 J	0.0532 J	0.0492 J	0.059 J	0.0773 J	0.101 J	0.0831 J	0.081 J	0.0756 J	0.0761 J
Calcium	mg/L	65	62.9	46.7	63.9	64.9	73	77.5	67.9	83.5	36.4	35.7	38	36.6	37.5	47.5
Chloride	mg/L	4.62	4.32	13.8	40.5	40.2	45.8	45	65.5	108	7.55	7.77	7.97	7.96	7.67	8.39
Fluoride	mg/L	0.124 J	0.169	0.146	0.134	0.183	0.179	0.156	0.264	0.221	0.177	0.166	0.171	0.188	0.215	0.167
pHField	SU	5.16	5.05	6.81	6.87	6.77	6.97	7.07	7.07	7.08	6.46	6.49	6.3	6.53	6.49	6.4
Sulfate	mg/L	718	667	65.8	151	167	210	179	178	217	39.3	43.1	47.6	48.7	48.7	49.4
TDS	PPT	1030	997	314	518	494	574	542	384	724	219	232	237	217	227	242
Appendix IV																
Antimony	mg/L	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071
Arsenic	mg/L	0.00135	0.00102	<0.001	0.000396	0.000413	0.000659	0.000629	0.00066	0.00051	<0.001	0.000288	0.000234	0.000186 J	0.000183 J	0.000139 J
Barium	mg/L	0.0163	0.0172	0.144	0.104	0.0749	0.0618	0.0576	0.0494	0.0562	0.116	0.0998	0.104	0.101	0.1	0.101
Beryllium	mg/L	0.00244	0.00188	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	0.000563	0.000822	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.000203	0.000364 J	<0.002	0.000207 J	0.000306 J	<0.000203	0.000647 J	0.000323 J	0.000263 J	<0.002	0.000239 J	0.000444 J	<0.000203	0.000356 J	<0.000203
Cobalt	mg/L	0.0819	0.0872	<0.002	0.00086	0.000719	0.000664	0.00092	0.000767	0.00101	<0.002	6.88e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	0.695 U	1.18 U	0.357 U	0.748 U	0.822 U	0.284 U	0.762 U	0.555 U	0.62 U	-0.128 U	0.164 U	0.387 U	0.417 U	1 U	0.502 U
Fluoride	mg/L	0.124 J	0.169	0.146	0.134	0.183	0.179	0.156	0.264	0.221	0.177	0.166	0.171	0.188	0.215	0.167
Lead	mg/L	0.00101	0.000686	<0.001	0.000121 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0199 J	0.0222	0.0343	0.0356	0.0357	0.031	0.037	0.0382	0.0435	0.0207	0.0211	0.0214	0.0196 J	0.0204	0.0206
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	<0.005075	<0.005075	0.00206 J	0.00592	0.00355	0.00325	0.0034	<0.005075	<0.005075	<0.002	0.000157 J	8.93e-005 J	0.000116 J	<0.000102	<0.005075
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	0.000165 J	0.000169 J	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-14R	MR-AP-MW-15													
		10/11/2023	07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/14/2017	04/04/2017	05/16/2017	06/12/2017	09/19/2017	01/31/2018	05/07/2018	10/09/2018	04/24/2019	08/28/2019
Appendix III																
Boron	mg/L	0.0756 J	0.15	0.175	0.204	0.192	0.161	0.147	0.168	0.18	0.192	--	0.258	0.237	0.243	0.863
Calcium	mg/L	45.8	37	37.5	38.4	37.8	39.2	37.5	40.4	38.4	37.8	--	38.4	38.2	39	53.8
Chloride	mg/L	8.26	16.9	17.1	17.3	17.2	20	19	20	21	19	--	20	20	18.3	19.3
Fluoride	mg/L	0.168	0.111 J	0.069 J	0.018 J	<0.01	0.1	0.1	0.1	0.1	0.12	0.1	0.11	0.13	0.133	0.0974 J
pHField	SU	6.3	6.55	6.55	6.49	6.46	6.47	6.38	6.46	6.41	6.5	6.5	6.42	6.46	6.46	6.38
Sulfate	mg/L	52.3	69.3	74.7	80.6	77.9	68	71	62	77	72	--	77	76	91.9	227
TDS	PPT	247	255	259	265	276	246	257	283	266	266	--	264	239	234	397
Appendix IV																
Antimony	mg/L	<0.00071	<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
Arsenic	mg/L	0.000171 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
Barium	mg/L	0.109	0.125	0.131	0.101	0.0952	0.106	0.0962	0.1	0.08	--	0.07	0.071	0.0588	0.0765	0.0424
Beryllium	mg/L	<0.000406	<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	<6.8e-005	<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	<0.000203	<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	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	0.0021 J
Combined Radium 226+228	pCi/L	0.373 U	0.191 U	0.663	0.608	-0.0687 U	0.459 U	0.327 U	0.232 U	0.123 U	--	0.516	0.615	0.825	0.373	0.00424 U
Fluoride	mg/L	0.168	0.111 J	0.069 J	0.018 J	<0.01	0.1	0.1	0.1	0.1	0.12	0.1	0.11	0.13	0.133	0.0974 J
Lead	mg/L	<6.8e-005	<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	0.0199 J	0.0199 J	0.0206 J	0.021 J	0.0201 J	0.022 J	0.0216 J	0.021 J	0.0181 J	--	0.0169 J	0.0187 J	0.019 J	<0.0203	0.0199 J
Mercury	mg/L	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000316 J	<0.0003
Molybdenum	mg/L	<0.005075	<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
Selenium	mg/L	<0.000508	<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	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-15								MR-AP-MW-16						
		03/04/2020	10/13/2020	04/26/2021	09/01/2021	03/09/2022	09/20/2022	04/19/2023	09/26/2023	07/19/2016	09/26/2016	10/31/2016	01/09/2017	02/14/2017	04/03/2017	05/16/2017
Appendix III																
Boron	mg/L	0.285	0.375	0.651	0.705	0.447	1.78	1.36	2.31	2.86	2.86	3.25	2.71	2.39	1.86	2.67
Calcium	mg/L	39.3	41.4	48.3	47.8	39.5	84.6	66.4	82.2	185	189	163	214	237	159	154
Chloride	mg/L	18.5	17.5	17.9	17.5	17.6	17.6	18	16.4	24.9	29.2	25.9	31.7	43	25	21
Fluoride	mg/L	0.111	0.125	0.117	0.118	0.165	<0.06	0.114 J	0.128	0.194 J	0.158 J	0.068 J	<0.01	0.14	0.13	0.13
pHField	SU	6.43	6.42	6.36	6.16	6.37	6.32	6.33	5.89	6.07	5.91	6.19	6.03	6.13	5.97	5.97
Sulfate	mg/L	93.9	107	157	163	120	352	280	438	683	707	610	707	670	520	470
TDS	PPT	269	280	352	359	279	594	330	702	1080	1140	1010	1250	1180	846	880
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	0.000801 J	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	0.000665	0.000827	0.000472	0.00153	0.000728	0.00103	0.00159 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0544	0.0522	0.0308	0.0298	0.0275	0.041	0.0236	0.0307	0.044	0.0367	0.0277	0.0323	0.0391	0.0245	0.0276
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000222 J	0.000208 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.000203	0.000328 J	0.000612 J	0.000204 J	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	0.000703	0.000661	0.000652	0.0241	0.0126	0.032	0.0507	0.0389	0.0152	0.00298 J	0.00507 J	0.00228 J	0.00418 J
Combined Radium 226+228	pCi/L	0.337 U	0.232 U	0.643 U	0.37 U	0.387 U	0.359 U	1.05 U	1.15 U	0.456 U	0.854	0.268 U	0.118 U	0.264 U	0.00348 U	0.229 U
Fluoride	mg/L	0.111	0.125	0.117	0.118	0.165	<0.06	0.114 J	0.128	0.194 J	0.158 J	0.068 J	<0.01	0.14	0.13	0.13
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0195 J	0.0195 J	0.0194 J	0.0196 J	0.0176 J	0.023	0.0219	0.0229	0.0816	0.0636	0.0759	0.0254 J	0.0859	0.0487 J	0.0297 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<6.8e-005	8.49e-005 J	<0.000102	0.000556	<0.005075	<0.005075	0.0204	0.00799 J	0.0458	0.00431 J	0.0255	0.0119	0.00405 J
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	0.00341 J	<0.002	0.00273 J	0.00281 J	0.00262 J	<0.002
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	0.000242 J	<0.0002	0.000226 J	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-16														
		06/12/2017	09/19/2017	01/30/2018	05/07/2018	10/09/2018	04/24/2019	08/28/2019	03/03/2020	10/13/2020	04/21/2021	09/01/2021	03/08/2022	09/20/2022	04/19/2023	10/11/2023
Appendix III																
Boron	mg/L	2.81	3	--	2.83	2.85	2.41	3.18	1.29	2.62	2.63	2.16	2.13	2.77	2.18	2.63
Calcium	mg/L	146	136	--	129	211	127	99.5	66.8	96.9	99.3	130	154	142	158	169
Chloride	mg/L	23	19	--	16	24	12	10.8	5.33	10	10.3	6.87	7.81	11.4	5.39	11.7
Fluoride	mg/L	0.14	0.16	0.12	0.16	0.18	0.236	0.29	0.179	0.145	0.173	0.14	0.155	0.145	0.16	0.141
pHField	SU	6.1	6.03	5.95	6.01	6	6.01	6.34	6.19	6.31	6.39	6.31	6.15	6.66	6.35	6.63
Sulfate	mg/L	510	460	--	430	580	406	384	198	366	392	427	530	497	553	499
TDS	PPT	872	848	--	742	982	618	642	378	738	688	702	738	808	472	820
Appendix IV																
Antimony	mg/L	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00101 J	<0.0008	<0.0008	<0.0008	0.000768 J	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000891	0.000895	0.000728	0.0031	0.000509	0.00334
Barium	mg/L	0.0242	--	0.0289	0.0264	0.0271	0.0243	0.0208	0.03	0.0322	0.02	0.0243	0.0206	0.024	0.0189	0.0246
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<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	<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	<0.000203	0.000666 J	<0.000203	<0.000203	<0.000203	0.000239 J
Cobalt	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	0.00216 J	<0.002	0.00352 J	0.00213	0.00646	0.00413	0.00648	0.0024	0.00421
Combined Radium 226+228	pCi/L	0.226 U	--	1.05	0.444 U	1.15	0.317 U	0.372 U	-0.0538 U	0.209 U	0.319 U	0.231 U	0.455 U	0.392 U	0.679 U	0.36 U
Fluoride	mg/L	0.14	0.16	0.12	0.16	0.18	0.236	0.29	0.179	0.145	0.173	0.14	0.155	0.145	0.16	0.141
Lead	mg/L	<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	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0429 J	--	0.026 J	0.0538	0.0285	0.0294 J	0.0555	0.0278	0.132	0.128	0.104	0.0901	0.177	0.0713	0.171
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0216	--	0.00829 J	0.0256	0.0114	0.0142	0.107	0.025	0.0494	0.0515	0.0336	0.0418	0.0863	0.0499	0.0792
Selenium	mg/L	<0.002	--	<0.002	0.00204 J	<0.002	<0.002	<0.002	0.00271 J	0.00351 J	0.000975 J	0.00629	0.00171	<0.000508	0.00616	<0.000508
Thallium	mg/L	<0.0002	--	<0.0002	0.0003 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	7.18e-005 J	<6.8e-005	7.15e-005 J	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-4V									MR-AP-MW-6V					
		03/05/2019	08/27/2019	03/04/2020	10/14/2020	04/26/2021	09/01/2021	03/15/2022	09/26/2022	05/02/2023	03/05/2019	08/28/2019	12/19/2019	03/03/2020	10/19/2020	04/28/2021
Appendix III																
Boron	mg/L	0.357	0.51	0.303	0.483	0.382	0.452	0.645	0.855	0.33	0.753	0.379	0.565	0.431	0.437	0.472
Calcium	mg/L	224	252	146	193	178	205	226	297	108	181	89.2	114	103	96.4	97.3
Chloride	mg/L	26.5	44.5	24.3	35.2	23.6	24.9	23.7	25.3	39.2	27.8	18.9	27.3	23.6	25	24.3
Fluoride	mg/L	0.135	0.181	0.0996 J	0.125	0.106	0.143	0.244	0.347	0.257	0.14	0.155	0.132	0.141	0.16	0.142
pHField	SU	6.5	6.38	6.34	6.38	6.34	5.85	6.68	6.75	6.59	7.24	7.34	7.03	7.14	7.28	7.15
Sulfate	mg/L	565	706	498	554	512	619	715	749	306	526	228	341	309	238	268
TDS	PPT	852	1190	736	963	916	1050	1100	1150	630	840	560	748	622	594	614
Appendix IV																
Antimony	mg/L	0.000839 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507
Arsenic	mg/L	0.00175 J	0.00149 J	<0.001	<0.001	0.000554	0.000815	0.00165	0.00375	0.000706	0.00146 J	0.0171	0.0149	0.0236	0.00307 J	0.00239
Barium	mg/L	0.0223	0.0187	0.019	0.0179	0.0182	0.0177	0.0179	0.0186	0.0316	0.0355	0.0614	0.0432	0.0275	0.0597	0.0259
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000268 J	0.000322 J	0.000315 J	0.000262 J	<0.002	0.00361 J	<0.002	<0.002	<0.002	0.00026 J
Cobalt	mg/L	0.00865	0.0104	0.00216 J	0.00364 J	0.00507	0.00741	0.0132	0.00886	0.00404	<0.002	<0.002	<0.002	<0.002	<0.002	0.000466
Combined Radium 226+228	pCi/L	0.244 U	0.948	0.16 U	0.505	0.233 U	0 U	0.496 U	1.04 U	0.838 U	0.66	0.389 U	--	-0.0545 U	0.106 U	0.0421 U
Fluoride	mg/L	0.135	0.181	0.0996 J	0.125	0.106	0.143	0.244	0.347	0.257	0.14	0.155	0.132	0.141	0.16	0.142
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	7.41e-005 J	0.000167 J	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005
Lithium	mg/L	0.0575	0.0788	0.0341	0.0601	0.0371	0.0507	0.118	0.155	0.0434	0.145	0.1	0.12	0.104	0.0971	0.109
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	0.00463 J	0.00763 J	<0.002	<0.002	0.00109	0.00134	0.00749	0.0278	0.00673 J	0.0065 J	0.00782 J	0.00862 J	0.00777 J	0.00562 J	0.00578
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	0.000535 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-6V					MR-AP-MW-17H									
		09/08/2021	03/16/2022	09/26/2022	04/24/2023	10/03/2023	03/06/2019	08/27/2019	03/10/2020	10/13/2020	05/05/2021	09/07/2021	03/08/2022	09/14/2022	04/19/2023	10/10/2023
Appendix III																
Boron	mg/L	0.561	0.499	0.455	0.35	0.207	0.0571 J	0.0898 J	0.0538 J	0.0857 J	0.145	0.0842 J	0.0797 J	0.108	0.0834 J	0.14
Calcium	mg/L	110	99.9	109	91.4	62.8	47	48.3	50.6	44.6	43.7	43.2	41.7	37.6	40.8	37.7
Chloride	mg/L	34.3	27.7	25	55.3	18.3	6.27	6.42	4.72	6.09	9.16	6.45	6.06	7.92	6.4	10.1
Fluoride	mg/L	0.178	0.145	0.152	0.185	0.214	0.133	0.16	0.166	0.171	0.159	0.213	0.158	0.206	0.141	0.163
pHField	SU	6.98	7.17	7.76	7.98	7.87	6.98	6.98	7.04	7	6.99	6.82	7.07	6.55	6.98	6.5
Sulfate	mg/L	332	266	240	233	79.2	60.4	83.6	51.9	81.6	93.2	65.8	62.1	78.3	56.1	89.2
TDS	PPT	708	592	576	656	0	389	436	370	433	514	417	376	497	311	546
Appendix IV																
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	0.0016	0.00161	0.00139	0.0012	0.000981	<0.001	<0.001	<0.001	<0.001	0.00115	0.000107 J	<8.1e-005	<8.1e-005	<0.000112	<0.000112
Barium	mg/L	0.0331	0.0281	0.0343	0.0301	0.042	0.65	0.495	0.425	0.444	1.68	0.511	0.622	0.196	0.628	0.141
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	0.000633 J	<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	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000215 J	0.000222 J	0.000592 J	0.000232 J	<0.000203	<0.002	<0.002	<0.002	<0.002	0.00119	0.000293 J	<0.000203	<0.000203	<0.000203	0.000285 J
Cobalt	mg/L	0.000225	0.000213	0.000852	0.000254	0.000158 J	<0.002	<0.002	<0.002	<0.002	0.00342	<6.8e-005	<6.8e-005	0.0002 J	9e-005 J	<6.8e-005
Combined Radium 226+228	pCi/L	0.891 U	0.493 U	0.85 U	1.27	0.486 U	0.732	0.701	1.18	0.298 U	2.37	1.32 U	0.896 U	0.73 U	1.19	0.618 U
Fluoride	mg/L	0.178	0.145	0.152	0.185	0.214	0.133	0.16	0.166	0.171	0.159	0.213	0.158	0.206	0.141	0.163
Lead	mg/L	<6.8e-005	<6.8e-005	0.000416	0.000991	<6.8e-005	<0.001	<0.001	<0.001	<0.001	0.00116	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.121	0.097	0.0938	0.0866	0.067	0.0597	0.0831	0.0566	0.0845	0.116	0.0826	0.0644	0.0898	0.0663	0.112
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	0.0061	0.00644	0.00701	0.00758 J	0.00599 J	<0.002	<0.002	<0.002	<0.002	0.000351	<6.8e-005	<0.000102	<0.000102	<0.0005075	<0.0005075
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<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	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-18H										MR-AP-MW-19HA				
		03/06/2019	08/27/2019	03/10/2020	10/13/2020	05/05/2021	09/14/2021	03/08/2022	09/21/2022	05/02/2023	10/03/2023	03/09/2020	10/14/2020	04/20/2021	09/13/2021	03/09/2022
Appendix III																
Boron	mg/L	0.178	0.299	0.151	0.302	0.237	0.289	0.194	0.257	0.172	0.241	0.132	0.167	0.193	0.159	0.158
Calcium	mg/L	4.86	16	2.15	17.7	12.5	15.1	3.72	8.78	3.04	6.48	5.28	8	10.1	6	8.95
Chloride	mg/L	8.61	58.9	5.53	22.7	14.9	14.1	5.42	12.1	4.3	6.83	26.3	120	250	138	165
Fluoride	mg/L	0.256	0.26	0.261	0.272	0.242	0.273	0.294	0.213	0.284	0.267	2.41	2.32	2.51	2.59	2.4
pHField	SU	7.39	7.28	7.28	7.23	7.31	7.39	7.5	7.21	7.52	6.72	8.05	8.25	7.97	8.63	8.07
Sulfate	mg/L	158	427	98.1	362	270	291	125	242	111	207	35	83.1	167	58.8	110
TDS	PPT	398	937	328	823	646	682	360	658	400	610	900	1300	1500	1020	1020
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	0.000269	0.000241	0.000276	0.000182 J	0.000179 J	0.000216	0.00384 J	0.00247 J	0.000986	0.000423	0.00061
Barium	mg/L	0.0293	0.0361	0.0261	0.0379	0.0484	0.0301	0.0258	0.0452	0.0402	0.0586	0.0752	0.0769	0.0976	0.0673	0.0604
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.0003 J	0.000328 J	0.000226 J	0.000278 J	<0.000203	0.000396 J	<0.002	<0.002	<0.000203	0.000289 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	0.229 U	0.344 U	0.95	0.0821 U	0.183 U	0.686 U	0.528 U	1.46	0.349 U	0.294 U	0.684	0.362	0.93 U	0.231 U	0.425 U
Fluoride	mg/L	0.256	0.26	0.261	0.272	0.242	0.273	0.294	0.213	0.284	0.267	2.41	2.32	2.51	2.59	2.4
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000117 J	<6.8e-005	0.0023 J	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.1	0.23	0.0875	0.215	0.167	0.188	0.0926	0.154	0.112	0.147	0.138	0.173	0.183	0.169	0.124
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	0.00498 J	0.0131	0.00972 J	0.00832 J	0.00733	0.00851	0.0104	0.0107	0.013	0.0132	<0.002	<0.002	0.000945	0.000577	0.00363
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	0.00512 J	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-19HA			MR-AP-MW-20H										MR-AP-MW-20HS	
		09/14/2022	05/01/2023	10/10/2023	03/06/2019	09/03/2019	03/10/2020	10/19/2020	04/28/2021	09/08/2021	03/09/2022	09/21/2022	04/19/2023	10/04/2023	03/06/2019	09/03/2019
Appendix III																
Boron	mg/L	0.161	0.162	0.142	0.699	0.751	0.759	0.724	0.735	0.741	0.759	0.756	0.864	0.881	0.641	0.61
Calcium	mg/L	23.8	14.2	11.9	266	240	226	201	191	207	191	247	197	217	179	161
Chloride	mg/L	288	204	103	44.5	43.8	44.2	38.6	34	33.4	27.6	25.8	26.8	23.4	38.1	36.8
Fluoride	mg/L	1.9	2.07	2.07	0.234	0.279	0.297	0.311	0.303	0.347	0.329	0.289	0.32	0.314	<0.05	<0.05
pHField	SU	7.79	8.02	7.94	7.14	7.49	7.35	7.33	7.29	7.37	7.38	7.26	7.3	7.2	6.32	6.34
Sulfate	mg/L	225	142	83.5	904	820	793	634	645	718	785	685	709	750	619	529
TDS	PPT	1410	1180	858	1260	1320	1290	1130	1140	1180	1120	1130	1100	1230	894	929
Appendix IV																
Antimony	mg/L	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008
Arsenic	mg/L	0.00101	0.000273	0.000964	<0.001	0.00104 J	<0.001	0.00105 J	0.00106	0.000941	0.000874	0.00089	0.000878	0.00112	<0.001	<0.001
Barium	mg/L	0.129	0.122	0.087	0.0486	0.0361	0.0267	0.0276	0.025	0.028	0.0245	0.0273	0.0411	0.0287	0.0711	0.0425
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003
Chromium	mg/L	<0.000203	0.000252 J	<0.000203	<0.002	<0.002	<0.002	<0.002	0.000229 J	0.000241 J	0.000205 J	0.000306 J	0.000211 J	<0.000203	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	0.000658	0.000784	0.000813	0.001	0.000959	0.0011	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.294 U	0.546 U	1.33	0.995	0.144 U	0.276 U	0.154 U	0.46 U	0.265 U	0.408 U	2.05	1.07	1.43 U	0.23 U	0.37 U
Fluoride	mg/L	1.9	2.07	2.07	0.234	0.279	0.297	0.311	0.303	0.347	0.329	0.289	0.32	0.314	<0.05	<0.05
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001
Lithium	mg/L	0.149	0.195	0.106	0.235	0.278	0.277	0.245	0.267	0.269	0.217	0.215	0.212	0.214	0.0987	0.0973
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	0.0168	0.0055 J	0.00685 J	0.0391	0.055	0.0593	0.0683	0.0606	0.0609	0.0621	0.0713	0.075	0.0878	<0.002	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-20HS								MR-AP-MW-27HR						
		03/10/2020	10/19/2020	05/03/2021	09/08/2021	03/09/2022	09/21/2022	04/19/2023	10/03/2023	10/26/2020	05/03/2021	09/14/2021	03/14/2022	09/21/2022	04/25/2023	09/27/2023
Appendix III																
Boron	mg/L	0.633	0.615	0.562	0.553	0.499	0.4	0.384	0.334	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0411 J
Calcium	mg/L	157	145	133	125	115	130	81.9	80.3	47.2	48.8	47.2	44.5	51.4	54.6	58.2
Chloride	mg/L	38.9	35.4	34.4	37	32.6	32.4	32.7	30.4	14.1	16	15.6	15.5	16.5	59.4	15.6
Fluoride	mg/L	0.0631 J	<0.06	0.0639 J	<0.06	<0.06	<0.06	0.0737 J	0.0707 J	0.161	0.171	0.175	0.116 J	0.0743 J	0.147	0.143
pHField	SU	6.47	6.51	6.29	6.33	6.71	6.33	6.62	6.49	7.2	7.16	7.21	7.17	7.15	7.13	5.62
Sulfate	mg/L	550	475	438	479	398	297	242	203	61.6	69.2	66.2	65.4	62.9	114	124
TDS	PPT	944	862	774	770	692	586	477	496	321	314	315	314	323	439	378
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	<0.001	<0.001	0.00022	0.000219	0.000215	0.000276	0.000264	0.000362	<0.001	0.00031	0.000272	0.000265	0.000147 J	0.000307	0.000242
Barium	mg/L	0.0292	0.0283	0.027	0.0269	0.0265	0.029	0.0283	0.0352	0.101	0.0893	0.091	0.0875	0.0777	0.095	0.0439
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.000203	0.00025 J	0.00022 J	<0.000203	<0.000203	<0.000203	<0.002	0.000203 J	0.000388 J	0.000357 J	0.000302 J	<0.000203	0.000204 J
Cobalt	mg/L	<0.002	<0.002	0.00089	0.000804	0.000807	0.000591	0.000243	0.000174 J	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000128 J
Combined Radium 226+228	pCi/L	0.374 U	0.0854 U	0.286 U	0.505 U	0.327 U	0.618 U	0.61 U	0.0623 U	0.0991 U	0.455 U	0.417 U	0.336 U	0.992 U	0.577 U	0.32 U
Fluoride	mg/L	0.0631 J	<0.06	0.0639 J	<0.06	<0.06	<0.06	0.0737 J	0.0707 J	0.161	0.171	0.175	0.116 J	0.0743 J	0.147	0.143
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	0.000258	<6.8e-005	0.000101 J	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.094	0.0797	0.0783	0.0783	0.0589	0.0512	0.0425	0.0374	0.0427	0.0441	0.0441	0.0415	0.0404	0.0489	0.0574
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	<0.002	<0.002	0.000249	0.000407	0.000371	0.000368	<0.005075	<0.005075	<0.002	0.00103	0.000808	0.000701	0.000966	0.00646 J	<0.005075
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-28H								MR-AP-MW-30H						
		03/09/2020	10/19/2020	04/20/2021	09/13/2021	03/14/2022	09/20/2022	04/19/2023	09/27/2023	03/10/2020	10/20/2020	04/21/2021	09/13/2021	03/16/2022	09/19/2022	04/26/2023
Appendix III																
Boron	mg/L	0.119	0.608	0.212	0.289	0.292	0.261	0.227	0.19	0.0912 J	0.0673 J	0.0481 J	0.0312 J	0.0394 J	0.0334 J	<0.03
Calcium	mg/L	56.9	63.6	49.8	58.3	50.6	59	46.5	49.6	207	228	229	223	198	241	206
Chloride	mg/L	5.26	5.22	5.58	6.4	5.91	7.21	7.37	18.3	117	149	131	81.7	99.5	90	58.4
Fluoride	mg/L	0.117	0.154	0.123	0.145	0.111 J	0.132	0.147	0.154	0.172	0.158	0.141	0.171	0.142	0.12 J	0.142
pHField	SU	6.8	6.79	6.64	6.62	6.82	6.72	6.81	6.22	6.91	6.84	6.83	6.79	6.72	6.78	6.77
Sulfate	mg/L	105	173	96.2	133	105	78.3	80.4	79.4	820	850	796	764	761	721	710
TDS	PPT	375	458	370	428	377	331	322	329	1720	1840	1700	1440	1380	1410	1370
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071
Arsenic	mg/L	0.00423 J	0.00281 J	0.00173	0.00164	0.00135	0.00201	0.000934	0.00108	0.00737	0.00242 J	0.000974	0.000493	0.0011	0.000763	0.000359
Barium	mg/L	0.0658	0.0429	0.0447	0.0484	0.0452	0.055	0.0436	0.0555	0.0503	0.0468	0.0266	0.0207	0.0214	0.0216	0.0195
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.000203	0.000265 J	<0.000203	<0.000203	<0.000203	<0.000203	<0.002	<0.002	<0.000203	0.000324 J	0.000215 J	0.000331 J	<0.000203
Cobalt	mg/L	0.00226 J	<0.002	0.000397	0.000266	0.000248	0.000292	0.00016 J	0.000199 J	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	0.641	0.155 U	0.0931 U	0.173 U	0.219 U	0.876 U	0.125 U	0.551 U	0.829	0.598	1.09	0.361 U	0.539 U	0.756 U	0.521 U
Fluoride	mg/L	0.117	0.154	0.123	0.145	0.111 J	0.132	0.147	0.154	0.172	0.158	0.141	0.171	0.142	0.12 J	0.142
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0593	0.058	0.0576	0.0606	0.0531	0.0506	0.0487	0.049	0.0821	0.0918	0.108	0.0967	0.088	0.0948	0.107
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	<0.002	0.00517 J	0.0017	0.00156	0.00203	0.00177	<0.005075	<0.005075	0.00436 J	0.00856 J	0.00576	0.00103	0.00234	0.00295	<0.005075
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	0.00228 J	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-30H	MR-AP-MW-32H								MR-AP-MW-33H					
		10/11/2023	03/10/2020	10/15/2020	04/28/2021	09/14/2021	03/09/2022	09/21/2022	04/19/2023	10/04/2023	03/05/2020	10/14/2020	05/03/2021	09/08/2021	03/14/2022	09/20/2022
Appendix III																
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.608	0.738	0.695	0.776	0.715	0.92
Calcium	mg/L	229	51.1	49.5	58.5	58.7	53.6	71.4	56.6	61.2	214	244	248	258	225	280
Chloride	mg/L	53.5	5.73	4.47	7.94	7.41	8.5	7.96	8.09	6.34	33.9	38.7	33.4	30.3	24.3	24.1
Fluoride	mg/L	0.172	0.132	0.151	0.133	0.275	0.138	0.0663 J	0.135	0.123 J	0.173	0.223	0.185	0.204	0.186	0.193
pHField	SU	6.85	7.27	7.32	7.18	7.36	7.35	7.2	7.28	7.24	6.51	6.45	6.48	6.37	6.5	6.29
Sulfate	mg/L	713	16.3	7.29	21.8	16.2	18.2	16.5	21.2	14.1	679	700	710	818	730	752
TDS	PPT	1340	216	232	252	239	234	246	187	294	1020	1170	1160	1220	1080	1180
Appendix IV																
Antimony	mg/L	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.00042	0.00312 J	0.00527	0.000881	0.000924	0.000802	0.00103	0.00091	0.00119	0.00362 J	0.0047 J	0.00436	0.00429	0.00358	0.0048
Barium	mg/L	0.0192	0.367	0.584	0.522	0.585	0.492	0.508	0.401	0.563	0.0326	0.0381	0.0324	0.0369	0.0317	0.0341
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000278 J	<0.002	<0.002	0.000309 J	0.000365 J	0.000236 J	0.000373 J	<0.000203	<0.000203	<0.002	<0.002	0.000276 J	0.000252 J	<0.000203	0.000269 J
Cobalt	mg/L	<6.8e-005	<0.002	<0.002	0.000134 J	<6.8e-005	7.12e-005 J	0.000238	<6.8e-005	0.000107 J	0.00965	0.0121	0.0112	0.0123	0.0105	0.0095
Combined Radium 226+228	pCi/L	0.5 U	0.4 U	0.826	0.352 U	0.784 U	0.497 U	1.1 U	0.565 U	1.08 U	0.636 U	0.0343 U	0.5 U	0.711 U	0.655 U	0.61 U
Fluoride	mg/L	0.172	0.132	0.151	0.133	0.275	0.138	0.0663 J	0.135	0.123 J	0.173	0.223	0.185	0.204	0.186	0.193
Lead	mg/L	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	6.88e-005 J	9.5e-005 J	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0922	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.145	0.155	0.153	0.175	0.132	0.158
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	<0.005075	0.0129	0.00939 J	0.00777	0.00617	0.00541	0.00498	<0.005075	<0.005075	0.0139	0.0223	0.0166	0.0184	0.0186	0.0318
Selenium	mg/L	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-33H		MR-AP-MW-34H								MR-AP-MW-35H				
		04/25/2023	10/04/2023	03/09/2020	10/21/2020	04/21/2021	09/13/2021	03/09/2022	09/19/2022	05/02/2023	10/10/2023	03/10/2020	10/13/2020	05/05/2021	09/07/2021	03/08/2022
Appendix III																
Boron	mg/L	0.851	0.874	0.148	0.16	0.178	0.144	0.107	0.12	0.127	0.138	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	220	237	21.1	24.6	28.1	20.2	12.9	13.1	14.9	15.5	57.5	64.9	61.5	63.3	61.6
Chloride	mg/L	21.4	97	159	199	273	216	161	132	108	121	2.26	1.91	2.57	2.13	2.2
Fluoride	mg/L	0.221	0.222	0.361	0.429	0.4	0.42	0.302	0.285	0.4	0.337	0.16	0.16	0.139	0.155	0.129
pHField	SU	6.56	6.57	7.76	7.79	7.81	8.2	8.09	8.05	7.87	8.04	6.69	6.64	6.72	6.58	6.77
Sulfate	mg/L	732	523	220	279	372	257	185	155	137	177	182	196	184	211	199
TDS	PPT	1090	0	1100	1540	1690	1270	909	964	920	940	438	455	444	451	432
Appendix IV																
Antimony	mg/L	<0.00071	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00425	0.00289	0.00719	<0.001	0.0013	0.000865	0.000674	0.000428	0.00211	0.00223	0.0139	0.0146	0.0117	0.0129	0.0118
Barium	mg/L	0.0311	0.0328	0.088	0.0952	0.0853	0.0692	0.0615	0.0558	0.0437	0.0493	0.0349	0.0315	0.0317	0.0289	0.0274
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	0.000191 J	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.000203	<0.000203	<0.002	<0.002	<0.000203	0.000318 J	0.000208 J	<0.000203	<0.000203	0.000273 J	<0.002	<0.002	<0.000203	0.000334 J	0.000233 J
Cobalt	mg/L	0.00778	0.00722	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	7.58e-005 J
Combined Radium 226+228	pCi/L	0.735 U	0.849 U	0.875	0.53	0.745 U	0.761 U	0.822 U	1.18 U	0.915 U	0.52 U	0.943	0.0328 U	0.466 U	0.878 U	1.37
Fluoride	mg/L	0.221	0.222	0.361	0.429	0.4	0.42	0.302	0.285	0.4	0.337	0.16	0.16	0.139	0.155	0.129
Lead	mg/L	<6.8e-005	9.93e-005 J	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.174	0.152	0.164	0.156	0.218	0.188	0.13	0.14	0.163	0.132	0.0306	0.0305	0.0298	0.0298	0.0264
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	0.0256	0.0334	0.00255 J	0.00201 J	0.00534	0.00634	0.00765	0.00513	0.00568 J	0.00568 J	0.00217 J	<0.002	0.0017	0.000963	0.00121
Selenium	mg/L	<0.000508	<0.000508	0.0461	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
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3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-35H			MR-AP-MW-36HR							MR-AP-MW-37H				
		09/19/2022	04/18/2023	10/10/2023	10/27/2020	04/21/2021	09/13/2021	03/16/2022	09/14/2022	04/25/2023	10/12/2023	03/09/2020	10/19/2020	05/03/2021	09/15/2021	03/17/2022
Appendix III																
Boron	mg/L	<0.03	<0.03	<0.03	0.0966 J	0.115	0.122	0.132	0.112	0.0994 J	0.158	0.0385 J	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	71.8	59.2	77.1	10.9	23.8	31.2	32.6	32.1	34.7	56.7	41.7	38.9	40.1	39.6	38.2
Chloride	mg/L	2.57	2.28	2.08	66.6	274	406	471	439	405	555	10.7	10.3	10.7	10.6	10.9
Fluoride	mg/L	0.13	0.146	0.131	0.272	0.412	0.49	0.4	0.342	0.295	0.312	0.173	0.178	0.167	0.201	0.132
pHField	SU	6.23	6.57	6.65	7.54	7.72	7.8	7.51	7.48	7.22	6.91	7.33	7.32	7.41	7.22	7.12
Sulfate	mg/L	197	197	194	285	559	628	746	572	519	722	31.5	32.4	34.8	36.4	36
TDS	PPT	453	332	454	913	1660	1790	2080	1860	1760	2220	312	295	310	301	305
Appendix IV																
Antimony	mg/L	<0.000508	<0.00071	<0.00071	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	0.000912 J	0.00201 J	0.0015 J	0.00123	0.000979 J	0.00105
Arsenic	mg/L	0.0135	0.0108	0.0138	0.00333 J	0.00666	0.00601	0.00633	0.00426	0.00204	0.00325	0.0113	0.00192 J	0.00127	0.00127	0.00148
Barium	mg/L	0.0275	0.028	0.0292	0.0347	0.0467	0.0518	0.0536	0.0366	0.0293	0.0459	0.112	0.11	0.101	0.11	0.103
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00021 J	<0.000203	0.000251 J	<0.002	<0.000203	0.00041 J	<0.000203	0.000707 J	0.000752 J	0.00632	<0.002	<0.002	0.000234 J	0.000255 J	0.000204 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	0.000116 J	8.8e-005 J	0.000142 J	0.000107 J	<6.8e-005	0.000183 J	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226+228	pCi/L	0.386 U	0.613 U	0.609 U	0.0202 U	0.74 U	0.572 U	0.417 U	0.748 U	0.619 U	0.874 U	0.418 U	-0.0717 U	0.651 U	0.886 U	0.173 U
Fluoride	mg/L	0.13	0.146	0.131	0.272	0.412	0.49	0.4	0.342	0.295	0.312	0.173	0.178	0.167	0.201	0.132
Lead	mg/L	<6.8e-005	7.4e-005 J	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0284	0.0264	0.0279	0.161	0.247	0.297	0.294	0.285	0.373	0.29	0.0662	0.0635	0.0663	0.066	0.0588
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	0.0011	<0.005075	<0.005075	0.0195	0.0505	0.0711	0.0981	0.095	0.0996	0.124	<0.002	<0.002	<6.8e-005	9.74e-005 J	<0.000102
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-37H			MR-AP-MW-31H							MR-AP-MW-7S				
		09/27/2022	04/18/2023	10/09/2023	10/27/2020	04/27/2021	09/13/2021	03/16/2022	09/20/2022	04/24/2023	10/09/2023	07/21/2016	09/27/2016	11/01/2016	01/10/2017	02/14/2017
Appendix III																
Boron	mg/L	<0.03	<0.03	<0.03	0.0341 J	0.0315 J	0.0315 J	0.0311 J	0.0368 J	0.0323 J	0.0322 J	0.69	0.669	0.697	0.705	0.722
Calcium	mg/L	36.6	38.1	39.8	130	131	130	129	152	125	161	88.2	79.1	78	85.3	82.7
Chloride	mg/L	10.8	11.2	12.2	12.5	11.5	13.1	14.1	43.2	13.6	13.8	20.6	20.7	21.1	21.3	24
Fluoride	mg/L	0.178	0.185	0.176	0.14	0.144	0.164	<0.06	0.0929 J	0.133	0.114 J	0.203 J	0.138 J	0.08 J	0.034 J	0.17
pHField	SU	7.39	7.33	7.12	6.95	7.01	7.04	6.94	7	6.98	6.94	6.51	6.51	6.51	6.52	6.5
Sulfate	mg/L	33.8	35.4	32.9	410	404	416	414	403	396	374	277	258	251	257	250
TDS	PPT	314	293	299	886	880	842	856	864	830	836	640	612	626	610	608
Appendix IV																
Antimony	mg/L	0.0006 J	0.00079 J	0.00077 J	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.000844	0.00073	0.000842	0.00133 J	0.000721	0.000485	0.000395	0.00044	0.000636	0.000797	0.00237 J	0.00249 J	0.00239 J	0.00267 J	0.00272 J
Barium	mg/L	0.105	0.0938	0.116	0.0585	0.045	0.0443	0.0361	0.0376	0.035	0.0355	0.0415	0.0355	0.038	0.0369	0.0414
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.000203	<0.000203	0.00024 J	<0.002	<0.000203	0.000332 J	0.000211 J	0.000332 J	<0.000203	0.00021 J	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.253 U	0.497 U	0.142 U	-0.0134 U	0.446 U	0.605 U	0.701 U	0.684 U	0.278 U	0.253 U	0.209 U	0.515 U	0.315 U	0.207 U	0.315 U
Fluoride	mg/L	0.178	0.185	0.176	0.14	0.144	0.164	<0.06	0.0929 J	0.133	0.114 J	0.203 J	0.138 J	0.08 J	0.034 J	0.17
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0586	0.0583	0.0608	0.135	0.145	0.147	0.117	0.124	0.137	0.122	0.148	0.146	0.15	0.141	0.18
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.000102	<0.005075	<0.005075	<0.002	0.00057	0.000361	0.00032	0.00118	<0.005075	<0.005075	0.0283	0.029	0.0262	0.028	0.0293
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-7S										MR-AP-MW-7D				
		04/04/2017	05/16/2017	06/13/2017	09/18/2017	01/30/2018	05/09/2018	10/09/2018	04/24/2019	08/28/2019	03/03/2020	07/21/2016	09/27/2016	11/01/2016	01/10/2017	02/14/2017
Appendix III																
Boron	mg/L	0.727	0.647	0.673	0.697	--	0.692	0.737	0.73	0.743	0.74	0.744	0.711	0.745	0.733	0.753
Calcium	mg/L	81.6	78.6	82.3	81.6	--	81.1	82	103	83.7	83.5	115	109	106	107	114
Chloride	mg/L	24	25	26	24	--	25	25	22.9	22.7	23.2	21.8	22.1	22.4	22.2	26
Fluoride	mg/L	0.2	0.18	0.18	0.22	0.21	0.21	0.25	0.296	0.221	0.219	0.125 J	0.068 J	0.014 J	<0.01	0.07 J
pHField	SU	6.4	6.45	6.49	6.56	6.54	6.52	6.56	6.43	6.56	6.55	6.71	6.71	6.74	6.77	6.74
Sulfate	mg/L	260	250	260	240	--	210	220	239	258	295	367	347	342	333	320
TDS	PPT	582	630	636	618	--	542	558	574	568	600	756	778	746	714	744
Appendix IV																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00253 J	0.0023 J	0.00222 J	--	0.00254 J	0.0025 J	0.00202 J	0.00245 J	0.0021 J	0.00237 J	0.00186 J	0.00193 J	0.00177 J	0.00185 J	0.00174 J
Barium	mg/L	0.0349	0.0384	0.034	--	0.0381	0.0365	0.0333	0.0402	0.0451	0.0383	0.0343	0.0294	0.0316	0.0304	0.0359
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
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	--	0.00207 J	<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	<0.002
Combined Radium 226+228	pCi/L	0.316 U	0.177 U	0.48	--	0.53	0.248 U	0.695	0.148 U	0.864	0.351 U	0.514	0.798	0.657	0.427 U	0.437 U
Fluoride	mg/L	0.2	0.18	0.18	0.22	0.21	0.21	0.25	0.296	0.221	0.219	0.125 J	0.068 J	0.014 J	<0.01	0.07 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
Lithium	mg/L	0.183	0.146	0.147	--	0.14	0.15	0.153	0.148	0.158	0.158	0.124	0.115	0.117	0.107	0.142
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0284	0.0281	0.0255	--	0.032	0.0278	0.0302	0.0325	0.0349	0.0344	0.0155	0.0133	0.012	0.0108	0.0102
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
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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-7D										MR-AP-MW-8S				
		04/04/2017	05/16/2017	06/13/2017	09/18/2017	01/29/2018	05/09/2018	10/09/2018	04/24/2019	08/28/2019	03/03/2020	07/25/2016	09/27/2016	11/01/2016	01/10/2017	02/14/2017
Appendix III																
Boron	mg/L	0.755	0.691	0.715	0.734	--	0.727	0.769	0.756	0.764	0.752	1.56	1.55	1.47	1.52	1.46
Calcium	mg/L	105	105	110	108	--	110	114	140	113	117	58.5	71.1	77.2	110	89.3
Chloride	mg/L	26	26	27	25	--	27	29	28	27.2	28.6	4.64	8.74	16.2	21.7	14
Fluoride	mg/L	0.09 J	0.1	0.1	0.11	0.1	0.1	0.12	0.156	0.106	0.105	0.471	0.375	0.259 J	0.215 J	0.36
pHField	SU	6.66	6.69	6.71	6.77	6.75	6.7	7.02	6.63	6.58	6.74	6.7	6.71	6.71	6.66	6.66
Sulfate	mg/L	350	340	360	340	--	340	360	364	371	419	363	446	471	604	460
TDS	PPT	746	772	780	770	--	730	764	748	660	736	686	828	888	1120	844
Appendix IV																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0006	0.00062 J	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00157 J	0.0015 J	0.00144 J	--	0.00185 J	0.00148 J	0.00211 J	0.00189 J	0.00197 J	0.00224 J	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0295	0.0319	0.0307	--	0.0331	0.032	0.0296	0.0326	0.0361	0.034	0.0233	0.0245	0.0285	0.0368	0.0337
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
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<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
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
Combined Radium 226+228	pCi/L	0.343 U	0.625	0.152 U	--	0.218 U	0.395 U	0.44 U	0.423 U	0.327 U	0.194 U	0.323 U	0.0932 U	0.0619 U	0.291 U	0.837
Fluoride	mg/L	0.09 J	0.1	0.1	0.11	0.1	0.1	0.12	0.156	0.106	0.105	0.471	0.375	0.259 J	0.215 J	0.36
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
Lithium	mg/L	0.137	0.109	0.108	--	0.1	0.107	0.103	0.0996	0.111	0.109	0.0338 J	0.0369 J	0.0413 J	0.0487 J	0.0574
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000318 J	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0089 J	0.00836 J	0.00732 J	--	0.00815 J	0.00604 J	0.00618 J	0.00612 J	0.00531 J	0.00727 J	0.0453	0.0485	0.0393	0.0393	0.0422
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
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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-8S										MR-AP-MW-8D				
		04/04/2017	05/16/2017	06/13/2017	09/19/2017	01/30/2018	05/09/2018	10/09/2018	04/24/2019	08/28/2019	03/03/2020	07/25/2016	09/28/2016	11/01/2016	01/10/2017	02/15/2017
Appendix III																
Boron	mg/L	1.58	1.45	1.59	1.76	--	1.05	2.05	1.53	2.06	0.692	0.916	1.03	1.04	1.01	1.05
Calcium	mg/L	62.2	57.3	56.6	52.5	--	48.6	55.2	53.6	56.9	49.3	46.8	52.4	58	81.2	72.1
Chloride	mg/L	6.5	4.6	4.6	4.5	--	3.2	4.7	4.06	4.08	13.6	6.35	8.42	13.1	16.8	14
Fluoride	mg/L	0.43	0.43	0.43	0.57	0.55	0.48	0.64	0.531	0.565	0.303	0.26 J	0.225 J	0.151 J	0.095 J	0.24
pHField	SU	6.66	6.68	6.72	6.76	6.79	6.69	6.82	6.62	6.78	6.34	6.27	6.4	6.41	6.36	6.34
Sulfate	mg/L	370	320	330	310	--	240	330	315	366	309	321	368	389	483	420
TDS	PPT	726	698	710	698	--	496	716	596	712	504	592	698	738	772	772
Appendix IV																
Antimony	mg/L	<0.0006	0.000683 J	<0.0006	--	<0.0006	0.000744 J	<0.0008	0.000999 J	<0.0008	0.0012 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00116 J	0.00144 J	0.00132 J	0.00127 J	<0.001
Barium	mg/L	0.0212	0.0202	0.0179	--	0.0201	0.0195	0.0169	0.0202	0.0217	0.0262	0.0547	0.0478	0.0521	0.0452	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
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<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
Cobalt	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0051 J	0.00389 J	0.00318 J	0.00311 J	0.00327 J
Combined Radium 226+228	pCi/L	0.143 U	0.213 U	0.248 U	--	0.289 U	0.047 U	0.385 U	0.175 U	0.367 U	-0.142 U	0.305 U	0.205 U	1.13	0.0076 U	0.665
Fluoride	mg/L	0.43	0.43	0.43	0.57	0.55	0.48	0.64	0.531	0.565	0.303	0.26 J	0.225 J	0.151 J	0.095 J	0.24
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
Lithium	mg/L	0.0483 J	0.0329 J	0.0338 J	--	0.0314 J	0.0282 J	0.0295	0.0268 J	0.0292	0.0304	0.0373 J	0.0356 J	0.0389 J	0.0472 J	0.0531
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000334 J	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0535	0.05	0.0454	--	0.0681	0.0259	0.0532	0.0298	0.0592	0.00692 J	0.0173	0.0242	0.0228	0.0195	0.0197
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	0.00359 J	<0.002	<0.002	<0.002	0.00202 J	<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	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-8D										MR-AP-MW-9S				
		04/04/2017	05/17/2017	06/13/2017	09/19/2017	01/30/2018	05/09/2018	10/09/2018	04/24/2019	08/28/2019	03/03/2020	07/20/2016	09/27/2016	11/02/2016	01/12/2017	02/15/2017
Appendix III																
Boron	mg/L	1.15	1.13	1.13	1.13	--	0.76	1.16	0.893	1.05	0.742	0.295	0.282	0.293	0.358	0.398
Calcium	mg/L	55.7	53.7	51.6	51.5	--	50	51.3	54.1	55.2	52.7	91.9	79.9	83.8	62.5	20.9
Chloride	mg/L	8.2	7.1	7	9.1	--	10	9	11.2	10.8	15.1	9.28	9.44	10.2	8.44	2.7
Fluoride	mg/L	0.3	0.29	0.3	0.35	0.35	0.26	0.36	0.258	0.214	0.151	0.139 J	0.086 J	0.047 J	<0.01	0.17
pHField	SU	6.41	6.36	6.43	6.32	6.46	6.11	6.26	5.91	6.09	5.83	5.45	5.46	5.37	5.46	5.96
Sulfate	mg/L	320	300	300	350	--	370	400	461	439	500	793	674	794	555	86
TDS	PPT	662	664	632	700	--	672	694	724	764	742	1250	1120	1150	866	221
Appendix IV																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	--	0.00161 J	0.00168 J	0.0012 J	0.00146 J	0.00146 J	0.00166 J	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0311	0.0367	0.0344	--	0.0379	0.0311	0.0302	0.0295	0.0323	0.025	0.0201	0.0175	0.0175	0.0224	0.0153
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
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<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
Cobalt	mg/L	0.00279 J	0.0036 J	0.00333 J	--	0.00272 J	0.00503 J	0.00555	0.00723	0.00697	0.007	0.00995 J	0.00686 J	0.0076 J	0.00419 J	<0.002
Combined Radium 226+228	pCi/L	0.278 U	0.798 U	0.544	--	0.325 U	-0.113 U	0.222 U	-0.104 U	0.53 U	0.311 U	0.291 U	0.639	0.851	0.658 U	0.76
Fluoride	mg/L	0.3	0.29	0.3	0.35	0.35	0.26	0.36	0.258	0.214	0.151	0.139 J	0.086 J	0.047 J	<0.01	0.17
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
Lithium	mg/L	0.0461 J	0.0402 J	0.0355 J	--	0.0419 J	0.0535	0.0494	0.0568	0.0615	0.0672	0.188	0.167	0.181	0.151	0.0385 J
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000303 J	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0236	0.027	0.026	--	0.033	0.00842 J	0.0168	0.00699 J	0.0104	0.00259 J	<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	0.00211 J
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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-9S										MR-AP-MW-9D				
		04/06/2017	05/17/2017	06/14/2017	09/19/2017	01/30/2018	05/08/2018	10/09/2018	04/24/2019	08/27/2019	03/03/2020	07/20/2016	09/28/2016	11/01/2016	01/10/2017	02/15/2017
Appendix III																
Boron	mg/L	0.367	0.358	0.406	0.409	--	0.399	0.437	0.757	0.438	1.41	0.644	0.641	0.671	0.696	0.708
Calcium	mg/L	18.6	57.1	50.7	50.7	--	57.8	51.7	325	77.6	66	60.6	61.2	58	62.6	68.2
Chloride	mg/L	5.6	8.3	6.6	7.1	--	4.2	7.5	5.42	7.56	4.18	8.7	8.99	9.34	9.94	13
Fluoride	mg/L	0.2	0.14	0.16	0.19	0.19	0.22	0.22	0.277	0.173	0.287	0.155 J	0.1 J	0.046 J	<0.01	0.11
pHField	SU	6.07	5.59	5.71	5.73	5.88	5.86	5.76	5.82	5.53	5.99	5.76	5.75	5.71	5.76	5.69
Sulfate	mg/L	65	410	410	380	--	360	340	513	553	425	475	474	470	480	460
TDS	PPT	195	782	646	664	--	646	616	838	892	650	792	780	800	832	804
Appendix IV																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00202 J	0.00176 J	0.0021 J	0.0022 J	0.00232 J
Barium	mg/L	0.0132	0.0314	0.0316	--	0.0188	0.0408	0.0241	0.0458	0.0332	0.0268	0.0144	0.0141	0.0132	0.0125	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
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	0.000319 J	<0.0003	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<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
Cobalt	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	0.00264 J	<0.002	0.0163	0.0155	0.0168	0.0164	0.0192
Combined Radium 226+228	pCi/L	0.122 U	0.781 U	0.285 U	--	0.162 U	0.583	0.67	0.471 U	0.477 U	0.192 U	0.466 U	0.0728 U	0.16 U	0.747	0.0228 U
Fluoride	mg/L	0.2	0.14	0.16	0.19	0.19	0.22	0.22	0.277	0.173	0.287	0.155 J	0.1 J	0.046 J	<0.01	0.11
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
Lithium	mg/L	0.0343 J	0.132	0.103	--	0.0577	0.1	0.119	0.142	0.138	0.117	0.0779	0.0709	0.0733	0.0743	0.0896
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000345 J	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
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
Selenium	mg/L	<0.002	<0.002	<0.002	--	0.00357 J	<0.002	<0.002	<0.002	<0.002	0.00584 J	<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	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-9D										MR-AP-MW-10				
		04/04/2017	05/17/2017	06/13/2017	09/19/2017	01/30/2018	05/08/2018	10/09/2018	04/24/2019	08/27/2019	03/03/2020	07/25/2016	09/27/2016	10/31/2016	01/11/2017	02/14/2017
Appendix III																
Boron	mg/L	0.716	0.735	0.695	0.716	--	0.722	0.752	0.758	0.75	0.769	3.36	3.18	3.32	3.05	2.87
Calcium	mg/L	65.4	67.3	65.8	66	--	64.6	63.8	66	67.7	70.8	132	127	122	124	125
Chloride	mg/L	13	14	14	13	--	12	11	11.2	10.2	10.3	6.41	6.3	6.36	6.65	9.2
Fluoride	mg/L	0.11	0.13	0.14	0.16	0.09 J	0.05 J	0.17	0.205	0.173	0.158	0.439	0.336	0.26 J	0.21 J	0.34
pHField	SU	5.72	5.64	5.69	5.75	5.79	5.71	5.71	5.62	5.44	5.71	6.73	6.82	6.78	6.8	6.74
Sulfate	mg/L	530	450	510	470	--	440	340	486	490	585	787	714	741	731	670
TDS	PPT	808	822	856	824	--	810	776	802	774	816	1440	1310	1360	1310	1270
Appendix IV																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00218 J	0.00207 J	0.00197 J	--	0.0023 J	0.00211 J	0.00182 J	0.00194 J	0.00188 J	0.00191 J	0.00272 J	0.00246 J	0.00261 J	0.00291 J	0.00272 J
Barium	mg/L	0.0117	0.011	0.0108	--	0.0148	0.0124	0.0108	0.0128	0.014	0.0122	0.0185	0.0131	0.0124	0.0122	0.0151
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
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0112	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0222	0.0194	0.0193	--	0.0157	0.0179	0.0182	0.0207	0.0198	0.0203	0.00273 J	0.00263 J	0.00289 J	0.00244 J	0.00209 J
Combined Radium 226+228	pCi/L	0.358 U	-0.25 U	0.828	--	0.0739 U	0.313 U	0.419 U	0.25 U	0.74	0.874	0.0598 U	0.82	0.37 U	0.668	0.36 U
Fluoride	mg/L	0.11	0.13	0.14	0.16	0.09 J	0.05 J	0.17	0.205	0.173	0.158	0.439	0.336	0.26 J	0.21 J	0.34
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
Lithium	mg/L	0.089	0.0783	0.0723	--	0.0693	0.0738	0.0736	0.0724	0.0801	0.0802	0.189	0.171	0.181	0.172	0.209
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	0.000331 J	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.115	0.0985	0.0971	0.0866	0.0895
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
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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-10														
		04/06/2017	05/17/2017	06/13/2017	09/21/2017	01/31/2018	05/10/2018	10/08/2018	04/24/2019	08/29/2019	03/09/2020	10/19/2020	05/03/2021	09/15/2021	03/17/2022	05/19/2022
Appendix III																
Boron	mg/L	2.87	2.71	2.67	3.08	--	3.04	3.46	3.61	4.1	4.7	4.44	4.45	4.8	5.81	6.12
Calcium	mg/L	125	124	129	133	--	132	164	201	178	222	149	165	152	76.4	145
Chloride	mg/L	8	8.1	8.1	7.7	--	7.4	7.4	7.66	6.65	7.47	6.03	6.38	6.39	4.75	8.04
Fluoride	mg/L	0.38	0.33	0.34	0.43	0.42	0.42	0.49	0.433	0.445	0.517	0.608	0.599	0.727	1.86	1.24
pHField	SU	6.73	6.73	6.71	6.8	6.81	6.77	6.86	6.91	6.93	7.03	7.05	7.01	7.04	7.24	6.99
Sulfate	mg/L	640	620	950	660	--	680	750	950	847	1010	781	917	910	735	1460
TDS	PPT	1320	1280	1310	1350	--	1310	1430	1460	1550	1720	1430	1510	1490	1230	2060
Appendix IV																
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.00235 J	0.00213 J	0.00218 J	--	0.00229 J	0.00215 J	0.00184 J	0.00193 J	0.00177 J	0.0018 J	0.00186 J	0.00142	0.0016	0.061	0.0425
Barium	mg/L	0.0116	0.0132	0.0131	--	0.0138	0.0142	0.0126	0.0154	0.0185	0.0175	0.0168	0.0147	0.017	0.0106	0.0185
Beryllium	mg/L	<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	<0.000406
Cadmium	mg/L	<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	8.62e-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	<0.000203	0.000473 J	0.00139	<0.000203
Cobalt	mg/L	0.00226 J	0.0021 J	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0003	0.000301	0.000905	0.00143
Combined Radium 226+228	pCi/L	0.519	-0.497 U	0.147 U	--	0.82	0.383 U	0.193 U	0.601	0.437 U	0.906	0.387 U	0.821 U	1.43 U	0.232 U	--
Fluoride	mg/L	0.38	0.33	0.34	0.43	0.42	0.42	0.49	0.433	0.445	0.517	0.608	0.599	0.727	1.86	1.24
Lead	mg/L	<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	<6.8e-005
Lithium	mg/L	0.203	0.163	0.155	--	0.163	0.178	0.184	0.186	0.197	0.225	0.166	0.19	0.187	0.174	0.24
Mercury	mg/L	<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	<0.0003
Molybdenum	mg/L	0.0812	0.0741	0.0719	--	0.0943	0.069	0.0951	0.121	0.158	0.223	0.305	0.296	0.352	0.751	0.675
Selenium	mg/L	<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	<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	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-10			MR-AP-MW-11											
		09/26/2022	05/03/2023	10/09/2023	07/25/2016	09/27/2016	11/01/2016	01/12/2017	02/13/2017	03/30/2017	04/04/2017	05/16/2017	06/14/2017	09/19/2017	01/30/2018	05/08/2018
Appendix III																
Boron	mg/L	7.39	6.84	7.06	0.0282 J	0.0253 J	0.0266 J	0.0268 J	0.0263 J	--	0.0252 J	0.0319 J	0.026 J	0.0253 J	--	<0.02
Calcium	mg/L	184	118	194	164	164	158	163	166	--	166	160	166	165	--	132
Chloride	mg/L	8.6	7.08	8.66	8.3	7.94	7.32	6.29	9.1	--	7	7.1	7.9	6.8	--	7.3
Fluoride	mg/L	1.12	0.902	0.578	0.155 J	0.097 J	0.038 J	<0.01	0.13	--	0.14	0.14	0.14	0.16	0.12	0.13
pHField	SU	7.16	7.15	7.16	6.74	6.74	6.71	6.61	6.58	6.57	6.56	6.56	6.5	6.55	7.09	7.04
Sulfate	mg/L	1560	1250	1410	637	612	619	654	--	650	690	590	620	630	--	550
TDS	PPT	2550	2110	2410	456	1170	1160	1180	1130	--	1140	1080	1220	1140	--	1070
Appendix IV																
Antimony	mg/L	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.0323	0.0241	0.027	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.0169	0.0162	0.0231	0.052	0.0398	0.0375	0.0291	0.0329	--	0.0292	0.0247	0.0263	--	0.0366	0.0347
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	9.82e-005 J	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	0.000436 J	0.000411 J	0.00048 J	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.00137	0.00107	0.00143	<0.002	<0.002	<0.002	0.00316 J	0.00227 J	--	<0.002	<0.002	<0.002	--	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.502 U	0.952 U	0.786 U	0.604 U	0.65	0.458 U	0.308 U	-0.0581 U	--	0.288 U	0.119 U	0.129 U	--	0.31 U	0.0757 U
Fluoride	mg/L	1.12	0.902	0.578	0.155 J	0.097 J	0.038 J	<0.01	0.13	--	0.14	0.14	0.14	0.16	0.12	0.13
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.267	0.354	0.281	0.119	0.108	0.116	0.12	0.149	--	0.154	0.128	0.118	--	0.229	0.246
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.74	0.665	0.358	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-11										MR-AP-MW-12				
		10/09/2018	05/01/2019	08/28/2019	03/03/2020	10/20/2020	04/21/2021	09/14/2021	03/16/2022	09/20/2022	05/03/2023	10/11/2023	07/20/2016	09/27/2016	11/01/2016	01/11/2017
Appendix III																
Boron	mg/L	0.0262 J	<0.0609	<0.03	0.0308 J	0.0357 J	<0.03	<0.03	0.0357 J	0.0457 J	0.0402 J	0.033 J	2.36	2.14	2.21	2.04
Calcium	mg/L	121	136	138	179	151	148	147	173	209	231	209	178	165	160	170
Chloride	mg/L	6.5	6.46	6.4	6.2	6.33	5.99	6.33	7.08	7.52	6.53	6.13	8.05	8.37	8.62	8.33
Fluoride	mg/L	0.15	0.118	0.13	0.134	0.126	0.111	0.136	0.107 J	0.0923 J	0.172	0.117 J	0.701	0.597	0.502	0.472
pHField	SU	7.3	6.64	7.22	6.6	7.26	6.54	6.67	6.94	6.7	6.52	6.59	6.63	6.59	6.6	6.59
Sulfate	mg/L	450	549	605	618	575	559	588	707	678	716	643	895	841	829	855
TDS	PPT	1010	996	1050	1070	1050	1060	1000	1120	1140	1240	1040	1620	1560	1580	1570
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	0.00069 J	0.000757 J	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	8.14e-005 J	8.05e-005 J	0.000117 J	0.00012 J	<0.000112	<0.000112	0.00169 J	0.00187 J	0.00203 J	0.00196 J
Barium	mg/L	0.0322	0.04	0.0387	0.029	0.0414	0.0401	0.0392	0.031	0.0318	0.0218	0.0433	0.0243	0.0273	0.0211	0.0208
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000374 J	0.000274 J	0.000272 J	<0.000203	0.000302 J	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	7.68e-005 J	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.5	0.295 U	0.358 U	0.227 U	0.0474 U	0.309 U	0.279 U	0.579 U	0.441 U	0.618 U	0.744 U	0.271 U	0.858	0.456 U	0.624 U
Fluoride	mg/L	0.15	0.118	0.13	0.134	0.126	0.111	0.136	0.107 J	0.0923 J	0.172	0.117 J	0.701	0.597	0.502	0.472
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.307	0.327	0.318	0.255	0.297	0.421	0.374	0.172	0.173	0.144	0.257	0.229	0.198	0.204	0.205
Mercury	mg/L	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.000741	0.000746	0.000387	0.00148	<0.005075	<0.005075	0.0267	0.0362	0.0329	0.0322
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-12														
		02/15/2017	04/04/2017	05/15/2017	06/14/2017	09/21/2017	01/30/2018	05/08/2018	10/08/2018	08/28/2019	03/10/2020	10/19/2020	05/05/2021	09/07/2021	03/17/2022	05/19/2022
Appendix III																
Boron	mg/L	2.12	2.51	2.54	2.83	3.76	--	5.61	6.35	7.06	7.52	7.42	8.01	7.19	7.07	6.39
Calcium	mg/L	173	167	169	177	171	--	173	174	152	138	115	107	128	102	94.2
Chloride	mg/L	9.9	9.5	8.1	8	7.7	--	6.8	6.9	7.27	7.52	7.33	8.01	8.14	8.05	7.92
Fluoride	mg/L	0.59	0.67	0.63	0.63	0.66	0.69	0.65	0.85	0.916	0.929	0.978	0.958	0.843	1.21	1.23
pHField	SU	6.59	6.54	6.56	6.55	6.53	6.59	6.49	6.51	6.63	6.52	6.5	6.5	6.46	6.65	6.42
Sulfate	mg/L	860	1100	900	1100	1100	--	1400	1500	1780	1580	1630	1510	1850	1730	1510
TDS	PPT	1470	1840	1660	1960	2030	--	2400	2630	2850	2420	2540	2530	2940	2580	2360
Appendix IV																
Antimony	mg/L	<0.0006	0.000652 J	0.000849 J	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	0.000558 J	0.000583 J	0.000656 J
Arsenic	mg/L	0.00189 J	0.00186 J	0.00167 J	0.00161 J	--	0.00189 J	0.00222 J	0.0024 J	0.00297 J	0.00353 J	0.00463 J	0.00514	0.00507	0.0078	0.00814
Barium	mg/L	0.0227	0.021	0.0229	0.0221	--	0.0224	0.0194	0.0167	0.0177	0.015	0.0157	0.0136	0.0191	0.0149	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	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	9.27e-005 J	0.000123 J	0.00016 J	9.14e-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	<0.000203	0.000836 J	0.00048 J	0.000772 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	0.00211 J	<0.002	<0.002	<0.002	<0.002	0.00141	0.00165	0.00116	0.00114
Combined Radium 226+228	pCi/L	0.821	0.258 U	0.382 U	0.746	--	0.366 U	0.854 U	0.717	0.577 U	1.57	0.17 U	0.446 U	0.521 U	0.656 U	--
Fluoride	mg/L	0.59	0.67	0.63	0.63	0.66	0.69	0.65	0.85	0.916	0.929	0.978	0.958	0.843	1.21	1.23
Lead	mg/L	<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	<6.8e-005
Lithium	mg/L	0.274	0.279	0.206	0.205	--	0.178	0.199	0.19	0.158	0.146	0.12	0.124	0.176	0.104	0.127
Mercury	mg/L	<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	0.0374	0.036	0.0365	0.0368	--	0.113	0.119	0.31	0.646	0.49	0.858	0.662	0.821	1.17	1.06
Selenium	mg/L	<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	<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	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-12			MR-MW-AP-13D											
		09/26/2022	05/03/2023	10/02/2023	07/20/2016	09/27/2016	11/01/2016	01/11/2017	02/15/2017	04/04/2017	05/17/2017	06/13/2017	09/19/2017	01/31/2018	05/08/2018	10/09/2018
Appendix III																
Boron	mg/L	4.96	5.38	5.12	0.0601 J	0.0979 J	0.108	0.0719 J	0.0714 J	0.0553 J	0.0781 J	0.0675 J	0.0732 J	--	0.083 J	0.102
Calcium	mg/L	80.7	30.3	31.2	49.9	66.5	51.8	47.2	50.7	48.9	48.7	49.2	47.3	--	47.3	44.6
Chloride	mg/L	7.51	5.56	5.08	10.4	13.8	12	11.7	15	13	14	14	13	--	14	14
Fluoride	mg/L	0.989	1.18	1.07	0.149 J	0.076 J	0.028 J	<0.01	0.1	0.12	0.13	0.13	0.11	0.13	0.14	0.18
pHField	SU	6.71	6.74	6.53	6.75	6.49	6.5	6.64	6.61	6.66	6.7	6.69	6.76	6.81	6.72	6.72
Sulfate	mg/L	845	513	493	58.9	115	87.8	87.1	82	82	66	79	69	--	70	54
TDS	PPT	1560	1050	0	307	446	398	338	342	328	336	319	315	--	326	283
Appendix IV																
Antimony	mg/L	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008
Arsenic	mg/L	0.00709	0.00828	0.00938	0.00239 J	0.00241 J	0.00315 J	0.00197 J	0.00253 J	0.00179 J	0.0015 J	0.00157 J	--	0.00196 J	0.00227 J	0.00272 J
Barium	mg/L	0.019	0.0176	0.0192	0.0827	0.0955	0.0744	0.0614	0.0741	0.0668	0.0725	0.0812	--	0.0843	0.078	0.0712
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<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	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003
Chromium	mg/L	0.00215	0.00034 J	0.000606 J	<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	0.00142	0.000717	0.000977	<0.002	0.0021 J	0.00214 J	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.62 U	0.659 U	0.524 U	0.324 U	0.385 U	0.119 U	0.324 U	0.393 U	0.263 U	0.555 U	0.305 U	--	0.461	0.441 U	0.683
Fluoride	mg/L	0.989	1.18	1.07	0.149 J	0.076 J	0.028 J	<0.01	0.1	0.12	0.13	0.13	0.11	0.13	0.14	0.18
Lead	mg/L	<6.8e-005	<6.8e-005	0.000224	<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	0.233	0.077	0.0552	0.0382 J	0.0434 J	0.0442 J	0.041 J	0.0474 J	0.0453 J	0.0403 J	0.0362 J	--	0.0343 J	0.0391 J	0.0404
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.555	0.383	0.281	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<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	<6.8e-005	<6.8e-005	<6.8e-005	<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. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-MW-AP-13D			MR-AP-MW-13S											
		04/24/2019	08/29/2019	03/09/2020	07/20/2016	09/27/2016	11/01/2016	01/11/2017	02/15/2017	04/06/2017	05/17/2017	06/13/2017	09/19/2017	01/31/2018	05/08/2018	10/09/2018
Appendix III																
Boron	mg/L	0.0987 J	0.0961 J	0.0929 J	0.0816 J	0.0837 J	0.0837 J	0.0795 J	0.0889 J	0.0777 J	0.095 J	0.0938 J	0.108	--	0.101	0.106
Calcium	mg/L	46	47.3	43.2	15.5	14.3	14.3	15.1	15.7	15.1	16.1	16.2	15.9	--	16.7	15.8
Chloride	mg/L	14.7	13.4	11.7	8.49	7.85	7.7	6.9	9.4	7.5	8.9	9.1	10	--	11	10
Fluoride	mg/L	0.199	0.144	0.159	0.106 J	0.058 J	0.078 J	<0.01	0.06 J	0.07 J	0.09 J	0.09 J	0.11	0.09 J	0.09 J	0.12
pHField	SU	6.67	6.8	6.68	5.63	5.63	5.58	5.56	5.58	5.53	5.53	5.57	5.65	5.67	5.6	5.64
Sulfate	mg/L	92.4	82.7	62.1	125	116	108	128	110	120	110	120	120	--	120	120
TDS	PPT	323	307	288	319	306	305	308	305	315	335	331	328	--	326	304
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008
Arsenic	mg/L	0.00439 J	0.00296 J	0.00866	0.00346 J	0.00306 J	0.00333 J	0.00331 J	0.00367 J	0.00321 J	0.00306 J	0.00337 J	--	0.00394 J	0.00384 J	0.00362 J
Barium	mg/L	0.0726	0.0876	0.088	0.021	0.0252	0.0201	0.0183	0.0212	0.0175	0.0182	0.0195	--	0.0207	0.0202	0.018
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
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	0.00264 J	0.0247	<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	0.0214	0.0211	0.0203	0.0198	0.0205	0.0216	0.0209	0.0214	--	0.0186	0.0208	0.0209
Combined Radium 226+228	pCi/L	0.482	0.287 U	0.865	0.0664 U	0.237 U	0.724	0.172 U	1.22	-0.143 U	-0.25 U	0.412	--	0.175 U	0.592	0.657
Fluoride	mg/L	0.199	0.144	0.159	0.106 J	0.058 J	0.078 J	<0.01	0.06 J	0.07 J	0.09 J	0.09 J	0.11	0.09 J	0.09 J	0.12
Lead	mg/L	<0.001	<0.001	0.00129 J	<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	0.0404 J	0.0432	0.0429	0.0825	0.0801	0.0825	0.0834	0.0908	0.0906	0.0841	0.0789	--	0.0725	0.0805	0.0777
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025
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
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
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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-13S			MR-AP-MW-14											
		04/24/2019	08/29/2019	03/09/2020	07/20/2016	09/26/2016	10/31/2016	01/09/2017	02/14/2017	04/04/2017	05/17/2017	06/13/2017	09/19/2017	01/30/2018	05/08/2018	10/09/2018
Appendix III																
Boron	mg/L	0.137 J	0.11	0.1	0.115	0.135	0.153	0.19	0.148	0.129	0.157	0.14	0.115	--	0.102	0.118
Calcium	mg/L	16	17.6	16.6	30.5	29.3	28.6	30.3	31.1	31.7	32.8	33.4	33.6	--	34	32.8
Chloride	mg/L	9.4	9.33	7.17	6.47	6.48	6.5	6.4	7.8	7.6	7.8	7.5	7.5	--	7.6	7.6
Fluoride	mg/L	0.161	0.103	0.119	0.182 J	0.124 J	0.074 J	0.028 J	0.17	0.17	0.17	0.17	<0.032	0.17	0.18	0.21
pHField	SU	5.65	5.67	5.58	6.35	6.36	6.31	6.28	6.27	6.25	6.33	6.3	6.43	6.4	6.38	6.41
Sulfate	mg/L	131	137	129	39.9	42.2	42.7	45.5	39	41	37	43	41	--	42	41
TDS	PPT	306	323	329	207	211	213	219	199	209	213	217	230	--	224	213
Appendix IV																
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008
Arsenic	mg/L	0.00362 J	0.00453 J	0.00403 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001
Barium	mg/L	0.0217	0.0247	0.0198	0.0847	0.0926	0.076	0.0727	0.0796	0.0663	0.0762	0.0671	--	0.0772	0.0753	0.0623
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
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<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	<0.002
Cobalt	mg/L	0.0237	0.0228	0.0244	<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	0.289 U	0.1 U	0.444 U	0.386 U	0.226 U	0.321 U	-0.00596 U	0.202 U	0.314 U	0.359 U	0.096 U	--	0.774	0.65	0.631
Fluoride	mg/L	0.161	0.103	0.119	0.182 J	0.124 J	0.074 J	0.028 J	0.17	0.17	0.17	0.17	<0.032	0.17	0.18	0.21
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
Lithium	mg/L	0.0788	0.0845	0.0871	0.0206 J	0.0212 J	0.0221 J	0.0226 J	0.0225 J	0.0221 J	0.0213 J	0.0203 J	--	0.0183 J	0.0205 J	0.0195 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025
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
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
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

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated. The result is greater than or equal to the MDL and less than the PQL



ANALYTICAL DATA SUMMARY
Ash Pond (07/19/2016 - 01/18/2024)
APC Plant Miller
Jefferson County Alabama

Analyte	Units	MR-AP-MW-14		
		04/24/2019	08/28/2019	03/04/2020
Appendix III				
Boron	mg/L	0.121 J	0.126	0.122
Calcium	mg/L	33.6	36.5	34.2
Chloride	mg/L	7.29	7.3	7.6
Fluoride	mg/L	0.22	0.192	0.184
pHField	SU	6.44	6.31	6.38
Sulfate	mg/L	47.2	51.8	45.2
TDS	PPT	218	213	232
Appendix IV				
Antimony	mg/L	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001
Barium	mg/L	0.0723	0.0784	0.0632
Beryllium	mg/L	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.252 U	-0.0208 U	0.637
Fluoride	mg/L	0.22	0.192	0.184
Lead	mg/L	<0.001	<0.001	<0.001
Lithium	mg/L	<0.0203	0.0213	0.0204
Mercury	mg/L	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002
Thallium	mg/L	<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. The result is greater than or equal to the MDL and less than the PQL

Appendix B



Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond
06/28/2016 - 09/25/2023

Well	Hydraulic Location	Geologic Unit	Measure Date																	
			06/28/16	07/18/16	09/26/16	10/31/16	01/09/17	02/13/17	04/04/17	05/15/17	06/12/17	09/18/17	01/29/18	03/27/18	05/07/18	10/08/18	03/13/19	04/22/19	08/26/19	
MR-AP-MW-21	Upgradient	Pottsville Fm - Lower Mary Lee Group																353.66		347.51
MR-AP-MW-22S	Upgradient	Pottsville Fm - Lower Mary Lee Group																		
MR-AP-MW-22I	Upgradient	Pottsville Fm - Lower Mary Lee Group																		
MR-AP-MW-22D	Upgradient	Pottsville Fm - Lower Mary Lee Group																		
MR-AP-MW-23	Upgradient	Pottsville Fm - Lower Mary Lee Group																		
MR-AP-MW-23A	Upgradient	Pottsville Fm - Lower Mary Lee Group																		
MR-AP-MW-1	Downgradient	Pottsville Fm - Mary Lee Coal	279.34	278.77	277.96	277.54	278.01	280.54	282.04	280.13	280.46	279.72	280.25	280.60	280.84	279.10	280.60	280.76	278.27	
MR-AP-MW-2	Downgradient	Pottsville Fm - Mary Lee Coal	279.24	278.69	277.88	277.37	277.92	280.47	281.84	280.06	280.32	279.62	280.23	280.52	280.74	278.99	280.51	280.68	278.20	
MR-AP-MW-3S	Downgradient	Pottsville Formation - Gillespy Lower Discrete	346.43	346.22	346.74	346.38	346.44	347.45	348.13	346.90	347.17	347.07	347.21	347.99	348.94	325.30	349.22	348.63	347.60	
MR-AP-MW-3D	Downgradient	Pottsville Formation - Sandstone	326.51	326.34	326.06	325.96	327.05	328.58	333.38	326.12	327.47	326.69	325.42	326.56	326.79	348.61	327.82	329.33	325.26	
MR-AP-MW-4	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	381.21	381.14	381.11	381.02	380.99	381.05	381.61	380.90	381.07	381.03	380.79	380.89	380.92	380.81	381.03	381.04	380.58	
MR-AP-MW-5	Downgradient	Pottsville Fm - Gillespy Lower Discrete		Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	
MR-AP-PZ-5	Downgradient	Pottsville Fm - Mary Lee Coal		Artesian	278.39	277.47	277.88	Artesian	Artesian	279.13	279.45	Artesian	Artesian	Artesian	279.22	Artesian	Artesian	Artesian	Artesian	
MR-AP-MW-6	Downgradient	Pottsville Fm - Gillespy to Pratt Transition		Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	
MR-AP-MW-7SR	Downgradient	Pottsville Formation - Gillespy Lower Discrete																		
MR-AP-MW-7DR	Downgradient	Pottsville Fm - Lower Gillespy SS																		
MR-AP-MW-9SR	Downgradient	Pottsville Fm - Pratt Group																		
MR-AP-MW-9DR	Downgradient	Pottsville Fm - Pratt Group																		
MR-AP-MW-13SR	Downgradient	Pottsville Fm - Pratt Group																		

Notes:
 (1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
 (2) NM = Not Measured

Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond
06/28/2016 - 09/25/2023

Well	Hydraulic Location	Geologic Unit	Measure Date								
			03/02/20	10/12/20	04/19/21	06/15/21	09/01/21	03/07/22	09/13/22	04/18/23	09/25/23
MR-AP-MW-21	Upgradient	Pottsville Fm - Lower Mary Lee Group	353.64		352.84	351.83	351.25	353.24	349.46	353.06	348.05
MR-AP-MW-22S	Upgradient	Pottsville Fm - Lower Mary Lee Group			350.24	350.42	349.87	350.27	349.22	349.88	347.66
MR-AP-MW-22I	Upgradient	Pottsville Fm - Lower Mary Lee Group			335.52	335.15	335.21	336.16	334.85	336.41	334.11
MR-AP-MW-22D	Upgradient	Pottsville Fm - Lower Mary Lee Group		333.27	335.52	335.08	335.19	335.98	334.78	337.05	334.56
MR-AP-MW-23	Upgradient	Pottsville Fm - Lower Mary Lee Group	341.79	341.07	341.79	341.39	341.08	342.07	340.65	341.87	339.27
MR-AP-MW-23A	Upgradient	Pottsville Fm - Lower Mary Lee Group		341.10	341.88	341.43	341.17	342.12	340.73	341.95	339.31
MR-AP-MW-1	Downgradient	Pottsville Fm - Mary Lee Coal	280.36		280.26	280.06	280.20	280.20	279.10	280.25	278.92
MR-AP-MW-2	Downgradient	Pottsville Fm - Mary Lee Coal	280.29		280.21	280.00	280.18	280.13	279.02	280.15	278.81
MR-AP-MW-3S	Downgradient	Pottsville Formation - Gillespy Lower Discrete	350.33		349.06	349.16	347.96	348.45	338.66	340.05	336.39
MR-AP-MW-3D	Downgradient	Pottsville Formation - Sandstone	327.69		328.13	329.02	329.48	325.10	319.46	320.24	314.91
MR-AP-MW-4	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	381.42		380.56	380.26	378.82	373.87	361.96	370.50	363.65
MR-AP-MW-5	Downgradient	Pottsville Fm - Gillespy Lower Discrete	Artesian		Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian
MR-AP-PZ-5	Downgradient	Pottsville Fm - Mary Lee Coal	Artesian		Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian
MR-AP-MW-6	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	Artesian		Artesian	Artesian	Artesian	Artesian	365.28	362.84	358.58
MR-AP-MW-7SR	Downgradient	Pottsville Formation - Gillespy Lower Discrete			329.37	329.31	328.34	327.06	323.33	324.33	321.75
MR-AP-MW-7DR	Downgradient	Pottsville Fm - Lower Gillespy SS			258.65	258.52	258.69	259.04	258.16	258.61	257.58
MR-AP-MW-9SR	Downgradient	Pottsville Fm - Pratt Group			410.62	410.01	406.16	397.41	388.88	390.80	383.82
MR-AP-MW-9DR	Downgradient	Pottsville Fm - Pratt Group			402.47	402.48	399.23	395.18	386.01	386.34	380.56
MR-AP-MW-13SR	Downgradient	Pottsville Fm - Pratt Group			428.63	428.73	428.84	429.38	424.01	429.22	423.02

Notes:
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
(2) NM = Not Measured

Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond
06/28/2016 - 09/25/2023

Well	Hydraulic Location	Geologic Unit	Measure Date																
			06/28/16	07/18/16	09/26/16	10/31/16	01/09/17	02/13/17	04/04/17	05/15/17	06/12/17	09/18/17	01/29/18	03/27/18	05/07/18	10/08/18	03/13/19	04/22/19	08/26/19
MR-AP-MW-13DR	Downgradient	Pottsville Fm - Gillespy to Pratt Transition																	
MR-AP-MW-14R	Downgradient	Pottsville Fm - Gillespy to Pratt Transition																	
MR-AP-MW-15	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	401.00	400.81	400.81	400.35	401.08	402.06	402.14	401.48	401.80	402.01	401.50	402.11	402.17	400.04	400.80	400.77	399.50
MR-AP-MW-16	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	388.20	388.27	388.35	387.53	389.29	390.37	394.37	388.43	389.21	389.37	388.34	389.61	389.69	388.90	392.06	391.31	387.14
MR-AP-MW-10	Downgradient	Pottsville Fm - Pratt Group	412.63	412.63	412.98	413.04	413.36	413.76	414.64	413.76	414.21	414.39	414.62	414.94	415.20	415.14	416.57	415.90	414.24
MR-AP-MW-11	Downgradient	Pottsville Fm - Pratt Group	361.29	361.79	362.55	362.52	362.98	364.17	364.89	365.70	366.35	366.69	365.43	367.16	367.88	366.28	371.32	369.09	365.39
MR-AP-MW-12	Downgradient	Pottsville Fm - Pratt Group	415.88	415.85	415.85	382.87	416.05	416.29	416.97	416.11	416.40	416.43	416.45	416.55	416.59	416.32	NM	416.17	415.14
MR-AP-MW-4V	Vertical Delineation	Pottsville Fm - Gillespy Lower Discrete															336.60		335.70
MR-AP-MW-6V	Vertical Delineation	Pottsville Fm - Lower Gillespy SS															258.91		259.34
MR-AP-MW-17H	Horizontal Delineation	Pottsville Fm - Lower Mary Lee Group															255.34		254.92
MR-AP-MW-18H	Horizontal Delineation	Pottsville Fm - Upper Mary Lee Group															291.24		286.33
MR-AP-MW-19HA	Horizontal Delineation	Pottsville Fm - Mary Lee Coal																	
MR-AP-MW-20H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS															259.20		259.78
MR-AP-MW-20HS	Horizontal Delineation	Pottsville Formation - Gillespy Lower Discrete															333.33		333.44
MR-AP-MW-27HR	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition																	
MR-AP-MW-28H	Horizontal Delineation	Pottsville Fm - Pratt Group																	
MR-AP-MW-30H	Horizontal Delineation	Pottsville Fm - Pratt Group																	
MR-AP-MW-32H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS																	

Notes:
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
(2) NM = Not Measured

Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond
06/28/2016 - 09/25/2023

Well	Hydraulic Location	Geologic Unit	Measure Date								
			03/02/20	10/12/20	04/19/21	06/15/21	09/01/21	03/07/22	09/13/22	04/18/23	09/25/23
MR-AP-MW-13DR	Downgradient	Pottsville Fm - Gillespy to Pratt Transition			382.83	382.15	381.06	380.12	376.12	376.68	373.63
MR-AP-MW-14R	Downgradient	Pottsville Fm - Gillespy to Pratt Transition			410.74	410.34	410.48	411.09	407.93	410.29	406.66
MR-AP-MW-15	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	401.10		399.41	399.74	399.94	399.35	397.16	397.71	395.35
MR-AP-MW-16	Downgradient	Pottsville Fm - Gillespy to Pratt Transition	392.46		387.95	389.23	392.06	387.36	385.69	386.70	381.57
MR-AP-MW-10	Downgradient	Pottsville Fm - Pratt Group	417.29		416.78	416.60	412.07	399.33	390.84	390.66	387.03
MR-AP-MW-11	Downgradient	Pottsville Fm - Pratt Group	371.89		370.58	368.76	367.13	364.21	358.37	360.98	356.66
MR-AP-MW-12	Downgradient	Pottsville Fm - Pratt Group	417.49		416.17	415.71	411.69	406.44	395.25	396.02	392.32
MR-AP-MW-4V	Vertical Delineation	Pottsville Fm - Gillespy Lower Discrete	336.99		336.68	336.82	336.60	331.68	325.79	324.73	320.19
MR-AP-MW-6V	Vertical Delineation	Pottsville Fm - Lower Gillespy SS	259.64		259.76	259.81	259.99	260.47	259.56	259.95	259.00
MR-AP-MW-17H	Horizontal Delineation	Pottsville Fm - Lower Mary Lee Group	257.49		255.47	255.16	255.71	255.42	234.29	255.38	254.46
MR-AP-MW-18H	Horizontal Delineation	Pottsville Fm - Upper Mary Lee Group	286.03		284.06	283.85	284.32	284.41	281.36	283.98	280.86
MR-AP-MW-19HA	Horizontal Delineation	Pottsville Fm - Mary Lee Coal	286.58		280.91	280.64	280.86	281.06	279.82	280.87	279.75
MR-AP-MW-20H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS	261.36		261.56	261.49	261.65	261.42	260.57	260.78	259.45
MR-AP-MW-20HS	Horizontal Delineation	Pottsville Formation - Gillespy Lower Discrete	335.20		335.07	334.04	333.43	330.46	326.30	324.09	320.46
MR-AP-MW-27HR	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition		382.53	382.60	381.63	380.29	377.39	372.40	371.36	369.59
MR-AP-MW-28H	Horizontal Delineation	Pottsville Fm - Pratt Group	409.70	408.31	409.43	408.88	407.03	405.45	400.08	401.50	398.58
MR-AP-MW-30H	Horizontal Delineation	Pottsville Fm - Pratt Group	364.53	361.56	360.88	358.78	358.01	348.37	344.10	347.51	345.10
MR-AP-MW-32H	Horizontal Delineation	Pottsville Fm - Lower Gillespy SS	260.03	259.28	259.98	259.81	260.03	261.18	259.91	261.04	259.90

Notes:
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
(2) NM = Not Measured

Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond
06/28/2016 - 09/25/2023

Well	Hydraulic Location	Geologic Unit	Measure Date																
			06/28/16	07/18/16	09/26/16	10/31/16	01/09/17	02/13/17	04/04/17	05/15/17	06/12/17	09/18/17	01/29/18	03/27/18	05/07/18	10/08/18	03/13/19	04/22/19	08/26/19
MR-AP-MW-33H	Horizontal Delineation	Pottsville Fm - Gillespy Lower Discrete																	
MR-AP-MW-34H	Horizontal Delineation	Pottsville Fm - Mary Lee Coal																	
MR-AP-MW-35H	Horizontal Delineation	Pottsville Fm - Mary Lee Coal																	
MR-AP-MW-36HR	Horizontal Delineation	Pottsville Fm - Pratt Group																	
MR-AP-MW-37H	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition																	
MR-AP-MW-31H	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition																	
MR-AP-MW-2V	Piezometer	Pottsville Fm - Lower Mary Lee Group																	
MR-AP-MW-3V	Piezometer	Pottsville Fm - Upper Mary Lee Group																	
MR-AP-MW-19H	Piezometer	Pottsville Fm - Unassigned																	
MR-AP-MW-7S	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	324.95	324.88	324.54	324.30	324.78	325.67	326.76	325.91	326.27	326.96	326.62	327.02	327.60	327.43	328.97	328.41	327.62
MR-AP-MW-7D	Abandoned	Pottsville Fm - Lower Gillespy SS	257.69	257.35	257.78	257.24	257.86	258.41	261.57	258.05	257.96	258.05	258.03	258.29	258.41	257.77	257.97	258.63	257.91
MR-AP-MW-8S	Abandoned	Pottsville Fm - Pratt Group	419.42	419.31	419.25	419.28	419.32	419.64	420.70	419.25	419.55	419.42	419.35	419.63	419.67	419.28	420.28	419.92	418.23
MR-AP-MW-8D	Abandoned	Pottsville Fm - Pratt Group	412.26	412.29	412.72	412.78	412.88	413.16	414.10	413.13	413.49	413.51	413.37	413.68	413.79	413.50	414.70	414.34	412.78
MR-AP-MW-9S	Abandoned	Pottsville Fm - Pratt Group	418.54	418.44	418.88	418.83	420.68	422.70	424.68	420.27	421.96	421.12	423.90	421.96	422.17	420.54	423.25	422.40	419.21
MR-AP-MW-9D	Abandoned	Pottsville Fm - Pratt Group	412.46	412.38	412.51	412.64	412.81	412.94	413.51	412.67	412.85	412.88	412.81	412.90	412.88	412.74	413.43	412.87	411.60
MR-AP-MW-13D	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	420.62	420.26	420.32	419.74	418.93	419.15	416.22	411.49	411.06	407.34	403.54	402.89	400.75	395.85	397.65	396.79	397.06
MR-AP-MW-13S	Abandoned	Pottsville Fm - Pratt Group	422.89	422.60	422.74	422.42	423.21	423.93	424.63	423.33	423.62	423.79	423.60	424.29	424.43	423.44	425.30	424.23	420.93
MR-AP-MW-14	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	409.71	409.29	409.27	408.92	409.67	411.24	412.38	410.61	411.25	410.93	410.82	411.24	411.32	410.02	412.05	411.58	407.99
MR-AP-MW-27H	Abandoned	Pottsville Fm - Unassigned																	

Notes:
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
(2) NM = Not Measured

Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond
06/28/2016 - 09/25/2023

Well	Hydraulic Location	Geologic Unit	Measure Date								
			03/02/20	10/12/20	04/19/21	06/15/21	09/01/21	03/07/22	09/13/22	04/18/23	09/25/23
MR-AP-MW-33H	Horizontal Delineation	Pottsville Fm - Gillespy Lower Discrete	310.15	306.41	306.95	307.11	306.73	304.02	300.77	300.77	296.77
MR-AP-MW-34H	Horizontal Delineation	Pottsville Fm - Mary Lee Coal	284.00	278.75	280.38	280.12	280.27	280.26	279.24	280.29	279.03
MR-AP-MW-35H	Horizontal Delineation	Pottsville Fm - Mary Lee Coal	296.01	291.72	295.16	293.81	294.01	295.95	292.71	295.36	292.03
MR-AP-MW-36HR	Horizontal Delineation	Pottsville Fm - Pratt Group		380.81	347.61	346.62	345.39	341.99	338.52	341.40	338.48
MR-AP-MW-37H	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition	335.14	332.82	334.68	333.20	333.92	314.84	332.02	334.09	331.26
MR-AP-MW-31H	Horizontal Delineation	Pottsville Fm - Gillespy to Pratt Transition	321.78	318.50	321.48	320.08	319.42	306.75	306.10	317.46	314.68
MR-AP-MW-2V	Piezometer	Pottsville Fm - Lower Mary Lee Group	213.67		215.55	229.41	232.96	215.74	241.97	n/a	241.77
MR-AP-MW-3V	Piezometer	Pottsville Fm - Upper Mary Lee Group	282.30		281.18	280.91	280.93	281.00	279.65	280.86	275.96
MR-AP-MW-19H	Piezometer	Pottsville Fm - Unassigned	144.04		155.51	156.99	158.96	163.03	168.49	155.64	168.42
MR-AP-MW-7S	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	329.53								
MR-AP-MW-7D	Abandoned	Pottsville Fm - Lower Gillespy SS	258.40								
MR-AP-MW-8S	Abandoned	Pottsville Fm - Pratt Group	420.53								
MR-AP-MW-8D	Abandoned	Pottsville Fm - Pratt Group	415.54								
MR-AP-MW-9S	Abandoned	Pottsville Fm - Pratt Group	423.24								
MR-AP-MW-9D	Abandoned	Pottsville Fm - Pratt Group	413.73								
MR-AP-MW-13D	Abandoned	Pottsville Fm - Gillespy to Pratt Transition	401.30								
MR-AP-MW-13S	Abandoned	Pottsville Fm - Pratt Group	425.40								
MR-AP-MW-14	Abandoned	Pottsville Fm - Gillespy to Pratt Transition									
MR-AP-MW-27H	Abandoned	Pottsville Fm - Unassigned	174.02								

Notes:
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
(2) NM = Not Measured



Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond
06/28/2016 - 09/25/2023

Well	Hydraulic Location	Geologic Unit	Measure Date																
			06/28/16	07/18/16	09/26/16	10/31/16	01/09/17	02/13/17	04/04/17	05/15/17	06/12/17	09/18/17	01/29/18	03/27/18	05/07/18	10/08/18	03/13/19	04/22/19	08/26/19
MR-AP-MW-29H	Abandoned	Pottsville Fm - Unassigned																	
MR-AP-MW-36H	Abandoned	Pottsville Fm - Unassigned																	

Notes:
 (1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
 (2) NM = Not Measured



Appendix B. Historical Groundwater Elevations Summary

Plant Miller Ash Pond
06/28/2016 - 09/25/2023

Well	Hydraulic Location	Geologic Unit	Measure Date								
			03/02/20	10/12/20	04/19/21	06/15/21	09/01/21	03/07/22	09/13/22	04/18/23	09/25/23
MR-AP-MW-29H	Abandoned	Pottsville Fm - Unassigned	353.07	NM	NM	NM					
MR-AP-MW-36H	Abandoned	Pottsville Fm - Unassigned	327.59								

Notes:
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
(2) NM = Not Measured

Appendix C

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-17H	COND	Conductivity	415.49	uS/cm	4/19/2023 9:20
MR-AP-MW-17H	DO	DO	0.41	mg/L	4/19/2023 9:20
MR-AP-MW-17H	DTW	Depth to Water Detail	21.84	ft	4/19/2023 9:20
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	-19.6	mv	4/19/2023 9:20
MR-AP-MW-17H	PH	pH	7.02	SU	4/19/2023 9:20
MR-AP-MW-17H	TEMP	Temperature	16.37	C	4/19/2023 9:20
MR-AP-MW-17H	TURB	Turbidity	16.7	NTU	4/19/2023 9:20
MR-AP-MW-17H	COND	Conductivity	418.26	uS/cm	4/19/2023 9:25
MR-AP-MW-17H	DO	DO	0.43	mg/L	4/19/2023 9:25
MR-AP-MW-17H	DTW	Depth to Water Detail	21.84	ft	4/19/2023 9:25
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	-18.86	mv	4/19/2023 9:25
MR-AP-MW-17H	PH	pH	6.97	SU	4/19/2023 9:25
MR-AP-MW-17H	TEMP	Temperature	16.49	C	4/19/2023 9:25
MR-AP-MW-17H	TURB	Turbidity	11.8	NTU	4/19/2023 9:25
MR-AP-MW-17H	COND	Conductivity	454.88	uS/cm	4/19/2023 9:30
MR-AP-MW-17H	DO	DO	0.41	mg/L	4/19/2023 9:30
MR-AP-MW-17H	DTW	Depth to Water Detail	21.84	ft	4/19/2023 9:30
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	-19.81	mv	4/19/2023 9:30
MR-AP-MW-17H	PH	pH	6.95	SU	4/19/2023 9:30
MR-AP-MW-17H	TEMP	Temperature	16.51	C	4/19/2023 9:30
MR-AP-MW-17H	TURB	Turbidity	8.37	NTU	4/19/2023 9:30
MR-AP-MW-17H	COND	Conductivity	509.19	uS/cm	4/19/2023 9:35
MR-AP-MW-17H	DO	DO	0.4	mg/L	4/19/2023 9:35
MR-AP-MW-17H	DTW	Depth to Water Detail	21.84	ft	4/19/2023 9:35
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	-24.89	mv	4/19/2023 9:35
MR-AP-MW-17H	PH	pH	6.99	SU	4/19/2023 9:35
MR-AP-MW-17H	TEMP	Temperature	16.56	C	4/19/2023 9:35
MR-AP-MW-17H	TURB	Turbidity	7.58	NTU	4/19/2023 9:35
MR-AP-MW-17H	COND	Conductivity	561.27	uS/cm	4/19/2023 9:40
MR-AP-MW-17H	DO	DO	0.4	mg/L	4/19/2023 9:40
MR-AP-MW-17H	DTW	Depth to Water Detail	21.84	ft	4/19/2023 9:40
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	-28.94	mv	4/19/2023 9:40
MR-AP-MW-17H	PH	pH	7	SU	4/19/2023 9:40
MR-AP-MW-17H	TEMP	Temperature	16.6	C	4/19/2023 9:40
MR-AP-MW-17H	TURB	Turbidity	4.93	NTU	4/19/2023 9:40
MR-AP-MW-17H	COND	Conductivity	591.34	uS/cm	4/19/2023 9:45
MR-AP-MW-17H	DO	DO	0.35	mg/L	4/19/2023 9:45
MR-AP-MW-17H	DTW	Depth to Water Detail	21.84	ft	4/19/2023 9:45
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	-31.94	mv	4/19/2023 9:45
MR-AP-MW-17H	PH	pH	6.99	SU	4/19/2023 9:45
MR-AP-MW-17H	TEMP	Temperature	16.62	C	4/19/2023 9:45
MR-AP-MW-17H	TURB	Turbidity	4.76	NTU	4/19/2023 9:45
MR-AP-MW-17H	COND	Conductivity	612.93	uS/cm	4/19/2023 9:50
MR-AP-MW-17H	DO	DO	0.38	mg/L	4/19/2023 9:50
MR-AP-MW-17H	DTW	Depth to Water Detail	21.84	ft	4/19/2023 9:50
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	-33.04	mv	4/19/2023 9:50
MR-AP-MW-17H	PH	pH	6.99	SU	4/19/2023 9:50
MR-AP-MW-17H	TEMP	Temperature	16.65	C	4/19/2023 9:50
MR-AP-MW-17H	TURB	Turbidity	3.97	NTU	4/19/2023 9:50
MR-AP-MW-17H	COND	Conductivity	623.61	uS/cm	4/19/2023 9:55
MR-AP-MW-17H	DO	DO	0.38	mg/L	4/19/2023 9:55
MR-AP-MW-17H	DTW	Depth to Water Detail	21.84	ft	4/19/2023 9:55
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	-33.97	mv	4/19/2023 9:55
MR-AP-MW-17H	PH	pH	6.98	SU	4/19/2023 9:55
MR-AP-MW-17H	TEMP	Temperature	16.74	C	4/19/2023 9:55
MR-AP-MW-17H	TURB	Turbidity	4.14	NTU	4/19/2023 9:55
MR-AP-MW-17H	COND	Conductivity	628.54	uS/cm	4/19/2023 10:00
MR-AP-MW-17H	DO	DO	0.42	mg/L	4/19/2023 10:00
MR-AP-MW-17H	DTW	Depth to Water Detail	21.84	ft	4/19/2023 10:00
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	-34.84	mv	4/19/2023 10:00
MR-AP-MW-17H	PH	pH	6.98	SU	4/19/2023 10:00
MR-AP-MW-17H	SULFIDE	Sulfide	0	mg/L	4/19/2023 10:00
MR-AP-MW-17H	TEMP	Temperature	16.76	C	4/19/2023 10:00
MR-AP-MW-17H	TURB	Turbidity	4.2	NTU	4/19/2023 10:00
MR-AP-MW-20H	COND	Conductivity	1437.11	uS/cm	4/19/2023 11:33
MR-AP-MW-20H	DO	DO	4.57	mg/L	4/19/2023 11:33
MR-AP-MW-20H	DTW	Depth to Water Detail	123.58	ft	4/19/2023 11:33
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	-76.53	mv	4/19/2023 11:33
MR-AP-MW-20H	PH	pH	6.9	SU	4/19/2023 11:33
MR-AP-MW-20H	TEMP	Temperature	21.12	C	4/19/2023 11:33
MR-AP-MW-20H	TURB	Turbidity	4.11	NTU	4/19/2023 11:33
MR-AP-MW-20H	COND	Conductivity	1455.65	uS/cm	4/19/2023 11:38
MR-AP-MW-20H	DO	DO	3.46	mg/L	4/19/2023 11:38
MR-AP-MW-20H	DTW	Depth to Water Detail	123.58	ft	4/19/2023 11:38

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	-108.04	mv	4/19/2023 11:38
MR-AP-MW-20H	PH	pH	6.98	SU	4/19/2023 11:38
MR-AP-MW-20H	TEMP	Temperature	21.81	C	4/19/2023 11:38
MR-AP-MW-20H	TURB	Turbidity	3.58	NTU	4/19/2023 11:38
MR-AP-MW-20H	COND	Conductivity	1473.34	uS/cm	4/19/2023 11:43
MR-AP-MW-20H	DO	DO	2.28	mg/L	4/19/2023 11:43
MR-AP-MW-20H	DTW	Depth to Water Detail	123.58	ft	4/19/2023 11:43
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	-120.27	mv	4/19/2023 11:43
MR-AP-MW-20H	PH	pH	7.07	SU	4/19/2023 11:43
MR-AP-MW-20H	TEMP	Temperature	22.51	C	4/19/2023 11:43
MR-AP-MW-20H	TURB	Turbidity	3.21	NTU	4/19/2023 11:43
MR-AP-MW-20H	COND	Conductivity	1489.73	uS/cm	4/19/2023 11:48
MR-AP-MW-20H	DO	DO	1.58	mg/L	4/19/2023 11:48
MR-AP-MW-20H	DTW	Depth to Water Detail	123.58	ft	4/19/2023 11:48
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	-121.02	mv	4/19/2023 11:48
MR-AP-MW-20H	PH	pH	7.2	SU	4/19/2023 11:48
MR-AP-MW-20H	TEMP	Temperature	21.61	C	4/19/2023 11:48
MR-AP-MW-20H	TURB	Turbidity	2.98	NTU	4/19/2023 11:48
MR-AP-MW-20H	COND	Conductivity	1495.62	uS/cm	4/19/2023 11:53
MR-AP-MW-20H	DO	DO	1.27	mg/L	4/19/2023 11:53
MR-AP-MW-20H	DTW	Depth to Water Detail	123.58	ft	4/19/2023 11:53
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	-116.86	mv	4/19/2023 11:53
MR-AP-MW-20H	PH	pH	7.27	SU	4/19/2023 11:53
MR-AP-MW-20H	TEMP	Temperature	21.08	C	4/19/2023 11:53
MR-AP-MW-20H	TURB	Turbidity	2.91	NTU	4/19/2023 11:53
MR-AP-MW-20H	COND	Conductivity	1493.9	uS/cm	4/19/2023 11:58
MR-AP-MW-20H	DO	DO	1.2	mg/L	4/19/2023 11:58
MR-AP-MW-20H	DTW	Depth to Water Detail	123.58	ft	4/19/2023 11:58
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	-113.44	mv	4/19/2023 11:58
MR-AP-MW-20H	PH	pH	7.29	SU	4/19/2023 11:58
MR-AP-MW-20H	TEMP	Temperature	21.07	C	4/19/2023 11:58
MR-AP-MW-20H	TURB	Turbidity	2.88	NTU	4/19/2023 11:58
MR-AP-MW-20H	COND	Conductivity	1486.97	uS/cm	4/19/2023 12:03
MR-AP-MW-20H	DO	DO	1.1	mg/L	4/19/2023 12:03
MR-AP-MW-20H	DTW	Depth to Water Detail	123.58	ft	4/19/2023 12:03
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	-110.86	mv	4/19/2023 12:03
MR-AP-MW-20H	PH	pH	7.3	SU	4/19/2023 12:03
MR-AP-MW-20H	TEMP	Temperature	20.84	C	4/19/2023 12:03
MR-AP-MW-20H	TURB	Turbidity	2.7	NTU	4/19/2023 12:03
MR-AP-MW-20H	COND	Conductivity	1482.51	uS/cm	4/19/2023 12:08
MR-AP-MW-20H	DO	DO	0.98	mg/L	4/19/2023 12:08
MR-AP-MW-20H	DTW	Depth to Water Detail	123.58	ft	4/19/2023 12:08
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	-109.87	mv	4/19/2023 12:08
MR-AP-MW-20H	PH	pH	7.3	SU	4/19/2023 12:08
MR-AP-MW-20H	TEMP	Temperature	20.46	C	4/19/2023 12:08
MR-AP-MW-20H	TURB	Turbidity	2.85	NTU	4/19/2023 12:08
MR-AP-MW-20H	COND	Conductivity	1481.02	uS/cm	4/19/2023 12:13
MR-AP-MW-20H	DO	DO	1.12	mg/L	4/19/2023 12:13
MR-AP-MW-20H	DTW	Depth to Water Detail	123.58	ft	4/19/2023 12:13
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	-109.73	mv	4/19/2023 12:13
MR-AP-MW-20H	PH	pH	7.3	SU	4/19/2023 12:13
MR-AP-MW-20H	SULFIDE	Sulfide	0	mg/L	4/19/2023 12:13
MR-AP-MW-20H	TEMP	Temperature	20.99	C	4/19/2023 12:13
MR-AP-MW-20H	TURB	Turbidity	2.8	NTU	4/19/2023 12:13
MR-AP-MW-20HS	COND	Conductivity	546.27	uS/cm	4/19/2023 13:03
MR-AP-MW-20HS	DO	DO	0.15	mg/L	4/19/2023 13:03
MR-AP-MW-20HS	DTW	Depth to Water Detail	54.98	ft	4/19/2023 13:03
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	-56.63	mv	4/19/2023 13:03
MR-AP-MW-20HS	PH	pH	6.59	SU	4/19/2023 13:03
MR-AP-MW-20HS	TEMP	Temperature	18.22	C	4/19/2023 13:03
MR-AP-MW-20HS	TURB	Turbidity	2.08	NTU	4/19/2023 13:03
MR-AP-MW-20HS	COND	Conductivity	562.6	uS/cm	4/19/2023 13:08
MR-AP-MW-20HS	DO	DO	0.13	mg/L	4/19/2023 13:08
MR-AP-MW-20HS	DTW	Depth to Water Detail	55.76	ft	4/19/2023 13:08
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	-45.25	mv	4/19/2023 13:08
MR-AP-MW-20HS	PH	pH	6.52	SU	4/19/2023 13:08
MR-AP-MW-20HS	TEMP	Temperature	18.29	C	4/19/2023 13:08
MR-AP-MW-20HS	TURB	Turbidity	1.29	NTU	4/19/2023 13:08
MR-AP-MW-20HS	COND	Conductivity	574.79	uS/cm	4/19/2023 13:13
MR-AP-MW-20HS	DO	DO	0.14	mg/L	4/19/2023 13:13
MR-AP-MW-20HS	DTW	Depth to Water Detail	56.42	ft	4/19/2023 13:13
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	-47.85	mv	4/19/2023 13:13
MR-AP-MW-20HS	PH	pH	6.5	SU	4/19/2023 13:13
MR-AP-MW-20HS	TEMP	Temperature	18.25	C	4/19/2023 13:13

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-20HS	TURB	Turbidity	1.61	NTU	4/19/2023 13:13
MR-AP-MW-20HS	COND	Conductivity	675.59	uS/cm	4/19/2023 13:18
MR-AP-MW-20HS	DO	DO	0.14	mg/L	4/19/2023 13:18
MR-AP-MW-20HS	DTW	Depth to Water Detail	56.79	ft	4/19/2023 13:18
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	-54.88	mv	4/19/2023 13:18
MR-AP-MW-20HS	PH	pH	6.58	SU	4/19/2023 13:18
MR-AP-MW-20HS	TEMP	Temperature	18.27	C	4/19/2023 13:18
MR-AP-MW-20HS	TURB	Turbidity	1.54	NTU	4/19/2023 13:18
MR-AP-MW-20HS	COND	Conductivity	696.8	uS/cm	4/19/2023 13:23
MR-AP-MW-20HS	DO	DO	0.14	mg/L	4/19/2023 13:23
MR-AP-MW-20HS	DTW	Depth to Water Detail	56.94	ft	4/19/2023 13:23
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	-57.46	mv	4/19/2023 13:23
MR-AP-MW-20HS	PH	pH	6.6	SU	4/19/2023 13:23
MR-AP-MW-20HS	TEMP	Temperature	18.18	C	4/19/2023 13:23
MR-AP-MW-20HS	TURB	Turbidity	1.52	NTU	4/19/2023 13:23
MR-AP-MW-20HS	COND	Conductivity	712	uS/cm	4/19/2023 13:28
MR-AP-MW-20HS	DO	DO	0.14	mg/L	4/19/2023 13:28
MR-AP-MW-20HS	DTW	Depth to Water Detail	58.06	ft	4/19/2023 13:28
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	-58.72	mv	4/19/2023 13:28
MR-AP-MW-20HS	PH	pH	6.62	SU	4/19/2023 13:28
MR-AP-MW-20HS	TEMP	Temperature	18.12	C	4/19/2023 13:28
MR-AP-MW-20HS	TURB	Turbidity	1.48	NTU	4/19/2023 13:28
MR-AP-MW-20HS	COND	Conductivity	708.04	uS/cm	4/19/2023 13:33
MR-AP-MW-20HS	DO	DO	0.14	mg/L	4/19/2023 13:33
MR-AP-MW-20HS	DTW	Depth to Water Detail	58.12	ft	4/19/2023 13:33
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	-59.57	mv	4/19/2023 13:33
MR-AP-MW-20HS	PH	pH	6.62	SU	4/19/2023 13:33
MR-AP-MW-20HS	SULFIDE	Sulfide	0	mg/L	4/19/2023 13:33
MR-AP-MW-20HS	TEMP	Temperature	18.01	C	4/19/2023 13:33
MR-AP-MW-20HS	TURB	Turbidity	1.56	NTU	4/19/2023 13:33
MR-AP-MW-32H	COND	Conductivity	406.23	uS/cm	4/19/2023 14:45
MR-AP-MW-32H	DO	DO	1.91	mg/L	4/19/2023 14:45
MR-AP-MW-32H	DTW	Depth to Water Detail	61.47	ft	4/19/2023 14:45
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	-109.42	mv	4/19/2023 14:45
MR-AP-MW-32H	PH	pH	7.33	SU	4/19/2023 14:45
MR-AP-MW-32H	TEMP	Temperature	25.75	C	4/19/2023 14:45
MR-AP-MW-32H	TURB	Turbidity	7.88	NTU	4/19/2023 14:45
MR-AP-MW-32H	COND	Conductivity	403.07	uS/cm	4/19/2023 14:50
MR-AP-MW-32H	DO	DO	1.48	mg/L	4/19/2023 14:50
MR-AP-MW-32H	DTW	Depth to Water Detail	61.62	ft	4/19/2023 14:50
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	-104.32	mv	4/19/2023 14:50
MR-AP-MW-32H	PH	pH	7.3	SU	4/19/2023 14:50
MR-AP-MW-32H	TEMP	Temperature	25.49	C	4/19/2023 14:50
MR-AP-MW-32H	TURB	Turbidity	6.32	NTU	4/19/2023 14:50
MR-AP-MW-32H	COND	Conductivity	401.18	uS/cm	4/19/2023 14:55
MR-AP-MW-32H	DO	DO	2.03	mg/L	4/19/2023 14:55
MR-AP-MW-32H	DTW	Depth to Water Detail	61.76	ft	4/19/2023 14:55
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	-84.57	mv	4/19/2023 14:55
MR-AP-MW-32H	PH	pH	7.28	SU	4/19/2023 14:55
MR-AP-MW-32H	TEMP	Temperature	24.92	C	4/19/2023 14:55
MR-AP-MW-32H	TURB	Turbidity	3.98	NTU	4/19/2023 14:55
MR-AP-MW-32H	COND	Conductivity	400.96	uS/cm	4/19/2023 15:00
MR-AP-MW-32H	DO	DO	2.4	mg/L	4/19/2023 15:00
MR-AP-MW-32H	DTW	Depth to Water Detail	61.92	ft	4/19/2023 15:00
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	-68.88	mv	4/19/2023 15:00
MR-AP-MW-32H	PH	pH	7.27	SU	4/19/2023 15:00
MR-AP-MW-32H	TEMP	Temperature	25.06	C	4/19/2023 15:00
MR-AP-MW-32H	TURB	Turbidity	4.04	NTU	4/19/2023 15:00
MR-AP-MW-32H	COND	Conductivity	407.16	uS/cm	4/19/2023 15:05
MR-AP-MW-32H	DO	DO	3.07	mg/L	4/19/2023 15:05
MR-AP-MW-32H	DTW	Depth to Water Detail	62.05	ft	4/19/2023 15:05
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	-56	mv	4/19/2023 15:05
MR-AP-MW-32H	PH	pH	7.27	SU	4/19/2023 15:05
MR-AP-MW-32H	TEMP	Temperature	24.87	C	4/19/2023 15:05
MR-AP-MW-32H	TURB	Turbidity	4.68	NTU	4/19/2023 15:05
MR-AP-MW-32H	COND	Conductivity	413.49	uS/cm	4/19/2023 15:10
MR-AP-MW-32H	DO	DO	3.32	mg/L	4/19/2023 15:10
MR-AP-MW-32H	DTW	Depth to Water Detail	62.18	ft	4/19/2023 15:10
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	-55.04	mv	4/19/2023 15:10
MR-AP-MW-32H	PH	pH	7.27	SU	4/19/2023 15:10
MR-AP-MW-32H	TEMP	Temperature	24.69	C	4/19/2023 15:10
MR-AP-MW-32H	TURB	Turbidity	4.21	NTU	4/19/2023 15:10
MR-AP-MW-32H	COND	Conductivity	415.16	uS/cm	4/19/2023 15:15
MR-AP-MW-32H	DO	DO	3.3	mg/L	4/19/2023 15:15

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-32H	DTW	Depth to Water Detail	62.32	ft	4/19/2023 15:15
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	-58.56	mv	4/19/2023 15:15
MR-AP-MW-32H	PH	pH	7.28	SU	4/19/2023 15:15
MR-AP-MW-32H	SULFIDE	Sulfide	0	mg/L	4/19/2023 15:15
MR-AP-MW-32H	TEMP	Temperature	24.66	C	4/19/2023 15:15
MR-AP-MW-32H	TURB	Turbidity	3.98	NTU	4/19/2023 15:15
MR-AP-MW-35H	COND	Conductivity	643.13	uS/cm	4/18/2023 10:30
MR-AP-MW-35H	DO	DO	0.75	mg/L	4/18/2023 10:30
MR-AP-MW-35H	DTW	Depth to Water Detail	9.84	ft	4/18/2023 10:30
MR-AP-MW-35H	ORP	Oxidation Reduction Potention	-7.89	mv	4/18/2023 10:30
MR-AP-MW-35H	PH	pH	6.76	SU	4/18/2023 10:30
MR-AP-MW-35H	TEMP	Temperature	19.21	C	4/18/2023 10:30
MR-AP-MW-35H	TURB	Turbidity	6.31	NTU	4/18/2023 10:30
MR-AP-MW-35H	COND	Conductivity	620.33	uS/cm	4/18/2023 10:35
MR-AP-MW-35H	DO	DO	0.38	mg/L	4/18/2023 10:35
MR-AP-MW-35H	DTW	Depth to Water Detail	9.84	ft	4/18/2023 10:35
MR-AP-MW-35H	ORP	Oxidation Reduction Potention	-10.58	mv	4/18/2023 10:35
MR-AP-MW-35H	PH	pH	6.67	SU	4/18/2023 10:35
MR-AP-MW-35H	TEMP	Temperature	19.2	C	4/18/2023 10:35
MR-AP-MW-35H	TURB	Turbidity	4.78	NTU	4/18/2023 10:35
MR-AP-MW-35H	COND	Conductivity	613.18	uS/cm	4/18/2023 10:40
MR-AP-MW-35H	DO	DO	0.29	mg/L	4/18/2023 10:40
MR-AP-MW-35H	DTW	Depth to Water Detail	9.84	ft	4/18/2023 10:40
MR-AP-MW-35H	ORP	Oxidation Reduction Potention	-13.18	mv	4/18/2023 10:40
MR-AP-MW-35H	PH	pH	6.63	SU	4/18/2023 10:40
MR-AP-MW-35H	TEMP	Temperature	19.33	C	4/18/2023 10:40
MR-AP-MW-35H	TURB	Turbidity	3.56	NTU	4/18/2023 10:40
MR-AP-MW-35H	COND	Conductivity	609.04	uS/cm	4/18/2023 10:45
MR-AP-MW-35H	DO	DO	0.21	mg/L	4/18/2023 10:45
MR-AP-MW-35H	DTW	Depth to Water Detail	9.84	ft	4/18/2023 10:45
MR-AP-MW-35H	ORP	Oxidation Reduction Potention	-11.7	mv	4/18/2023 10:45
MR-AP-MW-35H	PH	pH	6.57	SU	4/18/2023 10:45
MR-AP-MW-35H	SULFIDE	Sulfide	0	mg/L	4/18/2023 10:45
MR-AP-MW-35H	TEMP	Temperature	19.32	C	4/18/2023 10:45
MR-AP-MW-35H	TURB	Turbidity	2.76	NTU	4/18/2023 10:45
MR-AP-MW-37H	COND	Conductivity	513.64	uS/cm	4/18/2023 8:55
MR-AP-MW-37H	DO	DO	0.3	mg/L	4/18/2023 8:55
MR-AP-MW-37H	DTW	Depth to Water Detail	109.82	ft	4/18/2023 8:55
MR-AP-MW-37H	ORP	Oxidation Reduction Potention	-85.42	mv	4/18/2023 8:55
MR-AP-MW-37H	PH	pH	7.35	SU	4/18/2023 8:55
MR-AP-MW-37H	TEMP	Temperature	16.83	C	4/18/2023 8:55
MR-AP-MW-37H	TURB	Turbidity	3.36	NTU	4/18/2023 8:55
MR-AP-MW-37H	COND	Conductivity	499.6	uS/cm	4/18/2023 9:00
MR-AP-MW-37H	DO	DO	0.28	mg/L	4/18/2023 9:00
MR-AP-MW-37H	DTW	Depth to Water Detail	110.76	ft	4/18/2023 9:00
MR-AP-MW-37H	ORP	Oxidation Reduction Potention	-81.92	mv	4/18/2023 9:00
MR-AP-MW-37H	PH	pH	7.32	SU	4/18/2023 9:00
MR-AP-MW-37H	TEMP	Temperature	16.84	C	4/18/2023 9:00
MR-AP-MW-37H	TURB	Turbidity	3.12	NTU	4/18/2023 9:00
MR-AP-MW-37H	COND	Conductivity	493.71	uS/cm	4/18/2023 9:05
MR-AP-MW-37H	DO	DO	0.24	mg/L	4/18/2023 9:05
MR-AP-MW-37H	DTW	Depth to Water Detail	110.91	ft	4/18/2023 9:05
MR-AP-MW-37H	ORP	Oxidation Reduction Potention	-83.14	mv	4/18/2023 9:05
MR-AP-MW-37H	PH	pH	7.32	SU	4/18/2023 9:05
MR-AP-MW-37H	TEMP	Temperature	16.85	C	4/18/2023 9:05
MR-AP-MW-37H	TURB	Turbidity	2.78	NTU	4/18/2023 9:05
MR-AP-MW-37H	COND	Conductivity	491.03	uS/cm	4/18/2023 9:09
MR-AP-MW-37H	DO	DO	0.21	mg/L	4/18/2023 9:09
MR-AP-MW-37H	DTW	Depth to Water Detail	111.05	ft	4/18/2023 9:09
MR-AP-MW-37H	ORP	Oxidation Reduction Potention	-83.67	mv	4/18/2023 9:09
MR-AP-MW-37H	PH	pH	7.31	SU	4/18/2023 9:09
MR-AP-MW-37H	TEMP	Temperature	16.87	C	4/18/2023 9:09
MR-AP-MW-37H	TURB	Turbidity	2.63	NTU	4/18/2023 9:09
MR-AP-MW-37H	COND	Conductivity	488.79	uS/cm	4/18/2023 9:14
MR-AP-MW-37H	DO	DO	0.2	mg/L	4/18/2023 9:14
MR-AP-MW-37H	DTW	Depth to Water Detail	111.12	ft	4/18/2023 9:14
MR-AP-MW-37H	ORP	Oxidation Reduction Potention	-85.4	mv	4/18/2023 9:14
MR-AP-MW-37H	PH	pH	7.32	SU	4/18/2023 9:14
MR-AP-MW-37H	TEMP	Temperature	16.91	C	4/18/2023 9:14
MR-AP-MW-37H	TURB	Turbidity	2.44	NTU	4/18/2023 9:14
MR-AP-MW-37H	COND	Conductivity	486.84	uS/cm	4/18/2023 9:19
MR-AP-MW-37H	DO	DO	0.18	mg/L	4/18/2023 9:19
MR-AP-MW-37H	DTW	Depth to Water Detail	111.21	ft	4/18/2023 9:19
MR-AP-MW-37H	ORP	Oxidation Reduction Potention	-86.89	mv	4/18/2023 9:19

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-37H	PH	pH	7.33	SU	4/18/2023 9:19
MR-AP-MW-37H	SULFIDE	Sulfide	0	mg/L	4/18/2023 9:19
MR-AP-MW-37H	TEMP	Temperature	16.98	C	4/18/2023 9:19
MR-AP-MW-37H	TURB	Turbidity	2.13	NTU	4/18/2023 9:19
MR-AP-MW-5	COND	Conductivity	1503.96	uS/cm	4/25/2023 10:59
MR-AP-MW-5	DO	DO	0.15	mg/L	4/25/2023 10:59
MR-AP-MW-5	DTW	Depth to Water Detail	0	ft	4/25/2023 10:59
MR-AP-MW-5	ORP	Oxidation Reduction Potention	-213.3	mv	4/25/2023 10:59
MR-AP-MW-5	PH	pH	7.43	SU	4/25/2023 10:59
MR-AP-MW-5	TEMP	Temperature	17.34	C	4/25/2023 10:59
MR-AP-MW-5	TURB	Turbidity	2.1	NTU	4/25/2023 10:59
MR-AP-MW-5	COND	Conductivity	1504.64	uS/cm	4/25/2023 11:04
MR-AP-MW-5	DO	DO	0.02	mg/L	4/25/2023 11:04
MR-AP-MW-5	DTW	Depth to Water Detail	0	ft	4/25/2023 11:04
MR-AP-MW-5	ORP	Oxidation Reduction Potention	-213.21	mv	4/25/2023 11:04
MR-AP-MW-5	PH	pH	7.4	SU	4/25/2023 11:04
MR-AP-MW-5	TEMP	Temperature	17.39	C	4/25/2023 11:04
MR-AP-MW-5	TURB	Turbidity	2.32	NTU	4/25/2023 11:04
MR-AP-MW-5	COND	Conductivity	1502.88	uS/cm	4/25/2023 11:09
MR-AP-MW-5	DO	DO	0.12	mg/L	4/25/2023 11:09
MR-AP-MW-5	DTW	Depth to Water Detail	0	ft	4/25/2023 11:09
MR-AP-MW-5	ORP	Oxidation Reduction Potention	-212.41	mv	4/25/2023 11:09
MR-AP-MW-5	PH	pH	7.38	SU	4/25/2023 11:09
MR-AP-MW-5	TEMP	Temperature	17.23	C	4/25/2023 11:09
MR-AP-MW-5	TURB	Turbidity	1.96	NTU	4/25/2023 11:09
MR-AP-MW-5	COND	Conductivity	1502.91	uS/cm	4/25/2023 11:14
MR-AP-MW-5	DO	DO	0.12	mg/L	4/25/2023 11:14
MR-AP-MW-5	DTW	Depth to Water Detail	0	ft	4/25/2023 11:14
MR-AP-MW-5	ORP	Oxidation Reduction Potention	-211.64	mv	4/25/2023 11:14
MR-AP-MW-5	PH	pH	7.37	SU	4/25/2023 11:14
MR-AP-MW-5	SULFIDE	Sulfide	0	mg/L	4/25/2023 11:14
MR-AP-MW-5	TEMP	Temperature	17.3	C	4/25/2023 11:14
MR-AP-MW-5	TURB	Turbidity	1.87	NTU	4/25/2023 11:14
MR-AP-MW-6	COND	Conductivity	1109.82	uS/cm	4/25/2023 12:00
MR-AP-MW-6	DO	DO	0.73	mg/L	4/25/2023 12:00
MR-AP-MW-6	DTW	Depth to Water Detail	13.11	ft	4/25/2023 12:00
MR-AP-MW-6	ORP	Oxidation Reduction Potention	-24.41	mv	4/25/2023 12:00
MR-AP-MW-6	PH	pH	6.1	SU	4/25/2023 12:00
MR-AP-MW-6	TEMP	Temperature	18.72	C	4/25/2023 12:00
MR-AP-MW-6	TURB	Turbidity	66.4	NTU	4/25/2023 12:00
MR-AP-MW-6	COND	Conductivity	1113.08	uS/cm	4/25/2023 12:05
MR-AP-MW-6	DO	DO	0.23	mg/L	4/25/2023 12:05
MR-AP-MW-6	DTW	Depth to Water Detail	13.16	ft	4/25/2023 12:05
MR-AP-MW-6	ORP	Oxidation Reduction Potention	-33.38	mv	4/25/2023 12:05
MR-AP-MW-6	PH	pH	6.12	SU	4/25/2023 12:05
MR-AP-MW-6	TEMP	Temperature	18.74	C	4/25/2023 12:05
MR-AP-MW-6	TURB	Turbidity	45.3	NTU	4/25/2023 12:05
MR-AP-MW-6	COND	Conductivity	1112.92	uS/cm	4/25/2023 12:10
MR-AP-MW-6	DO	DO	0.19	mg/L	4/25/2023 12:10
MR-AP-MW-6	DTW	Depth to Water Detail	13.22	ft	4/25/2023 12:10
MR-AP-MW-6	ORP	Oxidation Reduction Potention	-35.34	mv	4/25/2023 12:10
MR-AP-MW-6	PH	pH	6.11	SU	4/25/2023 12:10
MR-AP-MW-6	TEMP	Temperature	18.72	C	4/25/2023 12:10
MR-AP-MW-6	TURB	Turbidity	26.9	NTU	4/25/2023 12:10
MR-AP-MW-6	COND	Conductivity	1112.68	uS/cm	4/25/2023 12:15
MR-AP-MW-6	DO	DO	0.19	mg/L	4/25/2023 12:15
MR-AP-MW-6	DTW	Depth to Water Detail	13.26	ft	4/25/2023 12:15
MR-AP-MW-6	ORP	Oxidation Reduction Potention	-35.11	mv	4/25/2023 12:15
MR-AP-MW-6	PH	pH	6.09	SU	4/25/2023 12:15
MR-AP-MW-6	TEMP	Temperature	18.7	C	4/25/2023 12:15
MR-AP-MW-6	TURB	Turbidity	22.5	NTU	4/25/2023 12:15
MR-AP-MW-6	COND	Conductivity	1112.58	uS/cm	4/25/2023 12:20
MR-AP-MW-6	DO	DO	0.22	mg/L	4/25/2023 12:20
MR-AP-MW-6	DTW	Depth to Water Detail	13.29	ft	4/25/2023 12:20
MR-AP-MW-6	ORP	Oxidation Reduction Potention	-33.93	mv	4/25/2023 12:20
MR-AP-MW-6	PH	pH	6.08	SU	4/25/2023 12:20
MR-AP-MW-6	TEMP	Temperature	18.72	C	4/25/2023 12:20
MR-AP-MW-6	TURB	Turbidity	21.5	NTU	4/25/2023 12:20
MR-AP-MW-6	COND	Conductivity	1110.11	uS/cm	4/25/2023 12:25
MR-AP-MW-6	DO	DO	0.24	mg/L	4/25/2023 12:25
MR-AP-MW-6	DTW	Depth to Water Detail	13.32	ft	4/25/2023 12:25
MR-AP-MW-6	ORP	Oxidation Reduction Potention	-32.55	mv	4/25/2023 12:25
MR-AP-MW-6	PH	pH	6.07	SU	4/25/2023 12:25
MR-AP-MW-6	TEMP	Temperature	18.77	C	4/25/2023 12:25

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-6	TURB	Turbidity	19.8	NTU	4/25/2023 12:25
MR-AP-MW-6	COND	Conductivity	1107.29	uS/cm	4/25/2023 12:30
MR-AP-MW-6	DO	DO	0.28	mg/L	4/25/2023 12:30
MR-AP-MW-6	DTW	Depth to Water Detail	13.34	ft	4/25/2023 12:30
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-30.89	mv	4/25/2023 12:30
MR-AP-MW-6	PH	pH	6.06	SU	4/25/2023 12:30
MR-AP-MW-6	TEMP	Temperature	18.77	C	4/25/2023 12:30
MR-AP-MW-6	TURB	Turbidity	19.7	NTU	4/25/2023 12:30
MR-AP-MW-6	COND	Conductivity	1107.67	uS/cm	4/25/2023 12:35
MR-AP-MW-6	DO	DO	0.29	mg/L	4/25/2023 12:35
MR-AP-MW-6	DTW	Depth to Water Detail	13.38	ft	4/25/2023 12:35
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-30.35	mv	4/25/2023 12:35
MR-AP-MW-6	PH	pH	6.05	SU	4/25/2023 12:35
MR-AP-MW-6	TEMP	Temperature	18.81	C	4/25/2023 12:35
MR-AP-MW-6	TURB	Turbidity	19.2	NTU	4/25/2023 12:35
MR-AP-MW-6	COND	Conductivity	1106.98	uS/cm	4/25/2023 12:40
MR-AP-MW-6	DO	DO	0.29	mg/L	4/25/2023 12:40
MR-AP-MW-6	DTW	Depth to Water Detail	13.4	ft	4/25/2023 12:40
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-30.03	mv	4/25/2023 12:40
MR-AP-MW-6	PH	pH	6.05	SU	4/25/2023 12:40
MR-AP-MW-6	TEMP	Temperature	18.79	C	4/25/2023 12:40
MR-AP-MW-6	TURB	Turbidity	18.7	NTU	4/25/2023 12:40
MR-AP-MW-6	COND	Conductivity	1106.53	uS/cm	4/25/2023 12:45
MR-AP-MW-6	DO	DO	0.29	mg/L	4/25/2023 12:45
MR-AP-MW-6	DTW	Depth to Water Detail	13.43	ft	4/25/2023 12:45
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-29.61	mv	4/25/2023 12:45
MR-AP-MW-6	PH	pH	6.05	SU	4/25/2023 12:45
MR-AP-MW-6	TEMP	Temperature	18.85	C	4/25/2023 12:45
MR-AP-MW-6	TURB	Turbidity	17.6	NTU	4/25/2023 12:45
MR-AP-MW-6	COND	Conductivity	1106.36	uS/cm	4/25/2023 12:50
MR-AP-MW-6	DO	DO	0.29	mg/L	4/25/2023 12:50
MR-AP-MW-6	DTW	Depth to Water Detail	13.45	ft	4/25/2023 12:50
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-29.9	mv	4/25/2023 12:50
MR-AP-MW-6	PH	pH	6.06	SU	4/25/2023 12:50
MR-AP-MW-6	TEMP	Temperature	18.97	C	4/25/2023 12:50
MR-AP-MW-6	TURB	Turbidity	17	NTU	4/25/2023 12:50
MR-AP-MW-6	COND	Conductivity	1105.53	uS/cm	4/25/2023 12:55
MR-AP-MW-6	DO	DO	0.28	mg/L	4/25/2023 12:55
MR-AP-MW-6	DTW	Depth to Water Detail	13.48	ft	4/25/2023 12:55
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-30.44	mv	4/25/2023 12:55
MR-AP-MW-6	PH	pH	6.06	SU	4/25/2023 12:55
MR-AP-MW-6	TEMP	Temperature	18.89	C	4/25/2023 12:55
MR-AP-MW-6	TURB	Turbidity	15.4	NTU	4/25/2023 12:55
MR-AP-MW-6	COND	Conductivity	1105.34	uS/cm	4/25/2023 13:00
MR-AP-MW-6	DO	DO	0.27	mg/L	4/25/2023 13:00
MR-AP-MW-6	DTW	Depth to Water Detail	13.51	ft	4/25/2023 13:00
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-30.68	mv	4/25/2023 13:00
MR-AP-MW-6	PH	pH	6.07	SU	4/25/2023 13:00
MR-AP-MW-6	TEMP	Temperature	18.86	C	4/25/2023 13:00
MR-AP-MW-6	TURB	Turbidity	14.4	NTU	4/25/2023 13:00
MR-AP-MW-6	COND	Conductivity	1104.36	uS/cm	4/25/2023 13:05
MR-AP-MW-6	DO	DO	0.26	mg/L	4/25/2023 13:05
MR-AP-MW-6	DTW	Depth to Water Detail	13.54	ft	4/25/2023 13:05
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-31.48	mv	4/25/2023 13:05
MR-AP-MW-6	PH	pH	6.07	SU	4/25/2023 13:05
MR-AP-MW-6	TEMP	Temperature	18.9	C	4/25/2023 13:05
MR-AP-MW-6	TURB	Turbidity	13.4	NTU	4/25/2023 13:05
MR-AP-MW-6	COND	Conductivity	1104.56	uS/cm	4/25/2023 13:10
MR-AP-MW-6	DO	DO	0.25	mg/L	4/25/2023 13:10
MR-AP-MW-6	DTW	Depth to Water Detail	13.56	ft	4/25/2023 13:10
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-31.85	mv	4/25/2023 13:10
MR-AP-MW-6	PH	pH	6.08	SU	4/25/2023 13:10
MR-AP-MW-6	TEMP	Temperature	18.89	C	4/25/2023 13:10
MR-AP-MW-6	TURB	Turbidity	12.7	NTU	4/25/2023 13:10
MR-AP-MW-6	COND	Conductivity	1103.52	uS/cm	4/25/2023 13:15
MR-AP-MW-6	DO	DO	0.24	mg/L	4/25/2023 13:15
MR-AP-MW-6	DTW	Depth to Water Detail	13.59	ft	4/25/2023 13:15
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-31.39	mv	4/25/2023 13:15
MR-AP-MW-6	PH	pH	6.08	SU	4/25/2023 13:15
MR-AP-MW-6	TEMP	Temperature	18.89	C	4/25/2023 13:15
MR-AP-MW-6	TURB	Turbidity	11.5	NTU	4/25/2023 13:15
MR-AP-MW-6	COND	Conductivity	1102.62	uS/cm	4/25/2023 13:20
MR-AP-MW-6	DO	DO	0.23	mg/L	4/25/2023 13:20
MR-AP-MW-6	DTW	Depth to Water Detail	13.61	ft	4/25/2023 13:20

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-31.36	mv	4/25/2023 13:20
MR-AP-MW-6	PH	pH	6.08	SU	4/25/2023 13:20
MR-AP-MW-6	TEMP	Temperature	18.93	C	4/25/2023 13:20
MR-AP-MW-6	TURB	Turbidity	11.2	NTU	4/25/2023 13:20
MR-AP-MW-6	COND	Conductivity	1102.11	uS/cm	4/25/2023 13:25
MR-AP-MW-6	DO	DO	0.22	mg/L	4/25/2023 13:25
MR-AP-MW-6	DTW	Depth to Water Detail	13.64	ft	4/25/2023 13:25
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-32.2	mv	4/25/2023 13:25
MR-AP-MW-6	PH	pH	6.08	SU	4/25/2023 13:25
MR-AP-MW-6	TEMP	Temperature	18.82	C	4/25/2023 13:25
MR-AP-MW-6	TURB	Turbidity	10.8	NTU	4/25/2023 13:25
MR-AP-MW-6	COND	Conductivity	1102.14	uS/cm	4/25/2023 13:30
MR-AP-MW-6	DO	DO	0.22	mg/L	4/25/2023 13:30
MR-AP-MW-6	DTW	Depth to Water Detail	13.66	ft	4/25/2023 13:30
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-32.22	mv	4/25/2023 13:30
MR-AP-MW-6	PH	pH	6.08	SU	4/25/2023 13:30
MR-AP-MW-6	TEMP	Temperature	18.94	C	4/25/2023 13:30
MR-AP-MW-6	TURB	Turbidity	10.34	NTU	4/25/2023 13:30
MR-AP-MW-6	COND	Conductivity	1101.2	uS/cm	4/25/2023 13:35
MR-AP-MW-6	DO	DO	0.22	mg/L	4/25/2023 13:35
MR-AP-MW-6	DTW	Depth to Water Detail	13.67	ft	4/25/2023 13:35
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-32.38	mv	4/25/2023 13:35
MR-AP-MW-6	PH	pH	6.08	SU	4/25/2023 13:35
MR-AP-MW-6	TEMP	Temperature	19.15	C	4/25/2023 13:35
MR-AP-MW-6	TURB	Turbidity	10.2	NTU	4/25/2023 13:35
MR-AP-MW-6	COND	Conductivity	1100.27	uS/cm	4/25/2023 13:40
MR-AP-MW-6	DO	DO	0.2	mg/L	4/25/2023 13:40
MR-AP-MW-6	DTW	Depth to Water Detail	13.67	ft	4/25/2023 13:40
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-31.61	mv	4/25/2023 13:40
MR-AP-MW-6	PH	pH	6.06	SU	4/25/2023 13:40
MR-AP-MW-6	TEMP	Temperature	19.08	C	4/25/2023 13:40
MR-AP-MW-6	TURB	Turbidity	10.11	NTU	4/25/2023 13:40
MR-AP-MW-6	COND	Conductivity	1098.21	uS/cm	4/25/2023 13:45
MR-AP-MW-6	DO	DO	0.21	mg/L	4/25/2023 13:45
MR-AP-MW-6	DTW	Depth to Water Detail	13.68	ft	4/25/2023 13:45
MR-AP-MW-6	ORP	Oxidation Reduction Potential	-31.47	mv	4/25/2023 13:45
MR-AP-MW-6	PH	pH	6.06	SU	4/25/2023 13:45
MR-AP-MW-6	SULFIDE	Sulfide	0	mg/L	4/25/2023 13:45
MR-AP-MW-6	TEMP	Temperature	19.21	C	4/25/2023 13:45
MR-AP-MW-6	TURB	Turbidity	9.42	NTU	4/25/2023 13:45
MR-AP-MW-6V	COND	Conductivity	1449.83	uS/cm	4/24/2023 13:04
MR-AP-MW-6V	DO	DO	4.94	mg/L	4/24/2023 13:04
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:04
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	-59.78	mv	4/24/2023 13:04
MR-AP-MW-6V	PH	pH	7.3	SU	4/24/2023 13:04
MR-AP-MW-6V	TEMP	Temperature	22.44	C	4/24/2023 13:04
MR-AP-MW-6V	TURB	Turbidity	13.8	NTU	4/24/2023 13:04
MR-AP-MW-6V	COND	Conductivity	1468.38	uS/cm	4/24/2023 13:09
MR-AP-MW-6V	DO	DO	4.04	mg/L	4/24/2023 13:09
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:09
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	-61.25	mv	4/24/2023 13:09
MR-AP-MW-6V	PH	pH	7.33	SU	4/24/2023 13:09
MR-AP-MW-6V	TEMP	Temperature	22.79	C	4/24/2023 13:09
MR-AP-MW-6V	TURB	Turbidity	16.2	NTU	4/24/2023 13:09
MR-AP-MW-6V	COND	Conductivity	1400.27	uS/cm	4/24/2023 13:14
MR-AP-MW-6V	DO	DO	4.6	mg/L	4/24/2023 13:14
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:14
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	-59.45	mv	4/24/2023 13:14
MR-AP-MW-6V	PH	pH	7.38	SU	4/24/2023 13:14
MR-AP-MW-6V	TEMP	Temperature	22.07	C	4/24/2023 13:14
MR-AP-MW-6V	TURB	Turbidity	17.1	NTU	4/24/2023 13:14
MR-AP-MW-6V	COND	Conductivity	1328.79	uS/cm	4/24/2023 13:19
MR-AP-MW-6V	DO	DO	5.23	mg/L	4/24/2023 13:19
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:19
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	-52.31	mv	4/24/2023 13:19
MR-AP-MW-6V	PH	pH	7.44	SU	4/24/2023 13:19
MR-AP-MW-6V	TEMP	Temperature	22.17	C	4/24/2023 13:19
MR-AP-MW-6V	TURB	Turbidity	18.3	NTU	4/24/2023 13:19
MR-AP-MW-6V	COND	Conductivity	1279.5	uS/cm	4/24/2023 13:24
MR-AP-MW-6V	DO	DO	5.65	mg/L	4/24/2023 13:24
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:24
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	-42.14	mv	4/24/2023 13:24
MR-AP-MW-6V	PH	pH	7.48	SU	4/24/2023 13:24
MR-AP-MW-6V	TEMP	Temperature	22.78	C	4/24/2023 13:24

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-6V	TURB	Turbidity	20.2	NTU	4/24/2023 13:24
MR-AP-MW-6V	COND	Conductivity	1215.24	uS/cm	4/24/2023 13:29
MR-AP-MW-6V	DO	DO	6.26	mg/L	4/24/2023 13:29
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:29
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	-34.84	mv	4/24/2023 13:29
MR-AP-MW-6V	PH	pH	7.57	SU	4/24/2023 13:29
MR-AP-MW-6V	TEMP	Temperature	22.41	C	4/24/2023 13:29
MR-AP-MW-6V	TURB	Turbidity	23.1	NTU	4/24/2023 13:29
MR-AP-MW-6V	COND	Conductivity	1182.64	uS/cm	4/24/2023 13:34
MR-AP-MW-6V	DO	DO	6.73	mg/L	4/24/2023 13:34
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:34
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	-23.37	mv	4/24/2023 13:34
MR-AP-MW-6V	PH	pH	7.61	SU	4/24/2023 13:34
MR-AP-MW-6V	TEMP	Temperature	22.76	C	4/24/2023 13:34
MR-AP-MW-6V	TURB	Turbidity	21.6	NTU	4/24/2023 13:34
MR-AP-MW-6V	COND	Conductivity	1160.81	uS/cm	4/24/2023 13:39
MR-AP-MW-6V	DO	DO	6.85	mg/L	4/24/2023 13:39
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:39
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	-12.83	mv	4/24/2023 13:39
MR-AP-MW-6V	PH	pH	7.66	SU	4/24/2023 13:39
MR-AP-MW-6V	TEMP	Temperature	23.07	C	4/24/2023 13:39
MR-AP-MW-6V	TURB	Turbidity	21.1	NTU	4/24/2023 13:39
MR-AP-MW-6V	COND	Conductivity	1128.65	uS/cm	4/24/2023 13:44
MR-AP-MW-6V	DO	DO	7.26	mg/L	4/24/2023 13:44
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:44
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	-1.63	mv	4/24/2023 13:44
MR-AP-MW-6V	PH	pH	7.72	SU	4/24/2023 13:44
MR-AP-MW-6V	TEMP	Temperature	22.4	C	4/24/2023 13:44
MR-AP-MW-6V	TURB	Turbidity	20.7	NTU	4/24/2023 13:44
MR-AP-MW-6V	COND	Conductivity	1108.65	uS/cm	4/24/2023 13:49
MR-AP-MW-6V	DO	DO	7.49	mg/L	4/24/2023 13:49
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:49
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	8.26	mv	4/24/2023 13:49
MR-AP-MW-6V	PH	pH	7.75	SU	4/24/2023 13:49
MR-AP-MW-6V	TEMP	Temperature	22.37	C	4/24/2023 13:49
MR-AP-MW-6V	TURB	Turbidity	16.9	NTU	4/24/2023 13:49
MR-AP-MW-6V	COND	Conductivity	1095.6	uS/cm	4/24/2023 13:54
MR-AP-MW-6V	DO	DO	7.59	mg/L	4/24/2023 13:54
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:54
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	16.71	mv	4/24/2023 13:54
MR-AP-MW-6V	PH	pH	7.8	SU	4/24/2023 13:54
MR-AP-MW-6V	TEMP	Temperature	22.46	C	4/24/2023 13:54
MR-AP-MW-6V	TURB	Turbidity	18.6	NTU	4/24/2023 13:54
MR-AP-MW-6V	COND	Conductivity	1073.35	uS/cm	4/24/2023 13:59
MR-AP-MW-6V	DO	DO	7.76	mg/L	4/24/2023 13:59
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 13:59
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	24.22	mv	4/24/2023 13:59
MR-AP-MW-6V	PH	pH	7.83	SU	4/24/2023 13:59
MR-AP-MW-6V	TEMP	Temperature	22.05	C	4/24/2023 13:59
MR-AP-MW-6V	TURB	Turbidity	17.1	NTU	4/24/2023 13:59
MR-AP-MW-6V	COND	Conductivity	1062.3	uS/cm	4/24/2023 14:04
MR-AP-MW-6V	DO	DO	7.92	mg/L	4/24/2023 14:04
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 14:04
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	31.05	mv	4/24/2023 14:04
MR-AP-MW-6V	PH	pH	7.85	SU	4/24/2023 14:04
MR-AP-MW-6V	TEMP	Temperature	22.24	C	4/24/2023 14:04
MR-AP-MW-6V	TURB	Turbidity	15.7	NTU	4/24/2023 14:04
MR-AP-MW-6V	COND	Conductivity	1051.98	uS/cm	4/24/2023 14:09
MR-AP-MW-6V	DO	DO	7.82	mg/L	4/24/2023 14:09
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 14:09
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	35.12	mv	4/24/2023 14:09
MR-AP-MW-6V	PH	pH	7.89	SU	4/24/2023 14:09
MR-AP-MW-6V	TEMP	Temperature	22.49	C	4/24/2023 14:09
MR-AP-MW-6V	TURB	Turbidity	14.4	NTU	4/24/2023 14:09
MR-AP-MW-6V	COND	Conductivity	1030.59	uS/cm	4/24/2023 14:14
MR-AP-MW-6V	DO	DO	8.1	mg/L	4/24/2023 14:14
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 14:14
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	40.23	mv	4/24/2023 14:14
MR-AP-MW-6V	PH	pH	7.93	SU	4/24/2023 14:14
MR-AP-MW-6V	TEMP	Temperature	21.69	C	4/24/2023 14:14
MR-AP-MW-6V	TURB	Turbidity	13.2	NTU	4/24/2023 14:14
MR-AP-MW-6V	COND	Conductivity	1019.87	uS/cm	4/24/2023 14:19
MR-AP-MW-6V	DO	DO	8.28	mg/L	4/24/2023 14:19
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 14:19

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	45.66	mv	4/24/2023 14:19
MR-AP-MW-6V	PH	pH	7.92	SU	4/24/2023 14:19
MR-AP-MW-6V	TEMP	Temperature	21.39	C	4/24/2023 14:19
MR-AP-MW-6V	TURB	Turbidity	12.1	NTU	4/24/2023 14:19
MR-AP-MW-6V	COND	Conductivity	1011.01	uS/cm	4/24/2023 14:24
MR-AP-MW-6V	DO	DO	8.28	mg/L	4/24/2023 14:24
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 14:24
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	49.37	mv	4/24/2023 14:24
MR-AP-MW-6V	PH	pH	7.94	SU	4/24/2023 14:24
MR-AP-MW-6V	TEMP	Temperature	21.6	C	4/24/2023 14:24
MR-AP-MW-6V	TURB	Turbidity	11.7	NTU	4/24/2023 14:24
MR-AP-MW-6V	COND	Conductivity	996.85	uS/cm	4/24/2023 14:29
MR-AP-MW-6V	DO	DO	8.38	mg/L	4/24/2023 14:29
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 14:29
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	52.57	mv	4/24/2023 14:29
MR-AP-MW-6V	PH	pH	7.95	SU	4/24/2023 14:29
MR-AP-MW-6V	TEMP	Temperature	21.67	C	4/24/2023 14:29
MR-AP-MW-6V	TURB	Turbidity	11.2	NTU	4/24/2023 14:29
MR-AP-MW-6V	COND	Conductivity	989.02	uS/cm	4/24/2023 14:34
MR-AP-MW-6V	DO	DO	8.49	mg/L	4/24/2023 14:34
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 14:34
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	55.12	mv	4/24/2023 14:34
MR-AP-MW-6V	PH	pH	7.96	SU	4/24/2023 14:34
MR-AP-MW-6V	TEMP	Temperature	21.64	C	4/24/2023 14:34
MR-AP-MW-6V	TURB	Turbidity	10.9	NTU	4/24/2023 14:34
MR-AP-MW-6V	COND	Conductivity	981.13	uS/cm	4/24/2023 14:39
MR-AP-MW-6V	DO	DO	8.46	mg/L	4/24/2023 14:39
MR-AP-MW-6V	DTW	Depth to Water Detail	116.54	ft	4/24/2023 14:39
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	57.45	mv	4/24/2023 14:39
MR-AP-MW-6V	PH	pH	7.98	SU	4/24/2023 14:39
MR-AP-MW-6V	SULFIDE	Sulfide	0	mg/L	4/24/2023 14:39
MR-AP-MW-6V	TEMP	Temperature	21.78	C	4/24/2023 14:39
MR-AP-MW-6V	TURB	Turbidity	9.34	NTU	4/24/2023 14:39
MR-AP-MW-7DR	COND	Conductivity	1499.95	uS/cm	4/24/2023 10:23
MR-AP-MW-7DR	DO	DO	0.3	mg/L	4/24/2023 10:23
MR-AP-MW-7DR	DTW	Depth to Water Detail	77.5	ft	4/24/2023 10:23
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	-37.43	mv	4/24/2023 10:23
MR-AP-MW-7DR	PH	pH	6.79	SU	4/24/2023 10:23
MR-AP-MW-7DR	TEMP	Temperature	16.45	C	4/24/2023 10:23
MR-AP-MW-7DR	TURB	Turbidity	2.43	NTU	4/24/2023 10:23
MR-AP-MW-7DR	COND	Conductivity	1411.33	uS/cm	4/24/2023 10:28
MR-AP-MW-7DR	DO	DO	0.21	mg/L	4/24/2023 10:28
MR-AP-MW-7DR	DTW	Depth to Water Detail	77.5	ft	4/24/2023 10:28
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	-37.91	mv	4/24/2023 10:28
MR-AP-MW-7DR	PH	pH	6.76	SU	4/24/2023 10:28
MR-AP-MW-7DR	TEMP	Temperature	16.63	C	4/24/2023 10:28
MR-AP-MW-7DR	TURB	Turbidity	2.23	NTU	4/24/2023 10:28
MR-AP-MW-7DR	COND	Conductivity	1310.46	uS/cm	4/24/2023 10:33
MR-AP-MW-7DR	DO	DO	0.19	mg/L	4/24/2023 10:33
MR-AP-MW-7DR	DTW	Depth to Water Detail	77.52	ft	4/24/2023 10:33
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	-36.87	mv	4/24/2023 10:33
MR-AP-MW-7DR	PH	pH	6.74	SU	4/24/2023 10:33
MR-AP-MW-7DR	TEMP	Temperature	16.56	C	4/24/2023 10:33
MR-AP-MW-7DR	TURB	Turbidity	2.2	NTU	4/24/2023 10:33
MR-AP-MW-7DR	COND	Conductivity	1247.97	uS/cm	4/24/2023 10:38
MR-AP-MW-7DR	DO	DO	0.18	mg/L	4/24/2023 10:38
MR-AP-MW-7DR	DTW	Depth to Water Detail	77.52	ft	4/24/2023 10:38
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	-35.46	mv	4/24/2023 10:38
MR-AP-MW-7DR	PH	pH	6.72	SU	4/24/2023 10:38
MR-AP-MW-7DR	TEMP	Temperature	16.65	C	4/24/2023 10:38
MR-AP-MW-7DR	TURB	Turbidity	2.16	NTU	4/24/2023 10:38
MR-AP-MW-7DR	COND	Conductivity	1198.39	uS/cm	4/24/2023 10:43
MR-AP-MW-7DR	DO	DO	0.19	mg/L	4/24/2023 10:43
MR-AP-MW-7DR	DTW	Depth to Water Detail	77.52	ft	4/24/2023 10:43
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	-34.65	mv	4/24/2023 10:43
MR-AP-MW-7DR	PH	pH	6.71	SU	4/24/2023 10:43
MR-AP-MW-7DR	TEMP	Temperature	16.55	C	4/24/2023 10:43
MR-AP-MW-7DR	TURB	Turbidity	2.02	NTU	4/24/2023 10:43
MR-AP-MW-7DR	COND	Conductivity	1182.79	uS/cm	4/24/2023 10:48
MR-AP-MW-7DR	DO	DO	0.17	mg/L	4/24/2023 10:48
MR-AP-MW-7DR	DTW	Depth to Water Detail	77.52	ft	4/24/2023 10:48
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	-34.34	mv	4/24/2023 10:48
MR-AP-MW-7DR	PH	pH	6.7	SU	4/24/2023 10:48
MR-AP-MW-7DR	TEMP	Temperature	16.54	C	4/24/2023 10:48

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-7DR	TURB	Turbidity	2.08	NTU	4/24/2023 10:48
MR-AP-MW-7DR	COND	Conductivity	1170.75	uS/cm	4/24/2023 10:53
MR-AP-MW-7DR	DO	DO	0.17	mg/L	4/24/2023 10:53
MR-AP-MW-7DR	DTW	Depth to Water Detail	77.52	ft	4/24/2023 10:53
MR-AP-MW-7DR	ORP	Oxidation Reduction Potential	-34.52	mv	4/24/2023 10:53
MR-AP-MW-7DR	PH	pH	6.7	SU	4/24/2023 10:53
MR-AP-MW-7DR	SULFIDE	Sulfide	0	mg/L	4/24/2023 10:53
MR-AP-MW-7DR	TEMP	Temperature	16.57	C	4/24/2023 10:53
MR-AP-MW-7DR	TURB	Turbidity	2.1	NTU	4/24/2023 10:53
MR-AP-MW-7SR	COND	Conductivity	900.34	uS/cm	4/24/2023 11:45
MR-AP-MW-7SR	DO	DO	0.63	mg/L	4/24/2023 11:45
MR-AP-MW-7SR	DTW	Depth to Water Detail	16.03	ft	4/24/2023 11:45
MR-AP-MW-7SR	ORP	Oxidation Reduction Potential	-3.2	mv	4/24/2023 11:45
MR-AP-MW-7SR	PH	pH	6.59	SU	4/24/2023 11:45
MR-AP-MW-7SR	TEMP	Temperature	16.25	C	4/24/2023 11:45
MR-AP-MW-7SR	TURB	Turbidity	31.7	NTU	4/24/2023 11:45
MR-AP-MW-7SR	COND	Conductivity	904.14	uS/cm	4/24/2023 11:50
MR-AP-MW-7SR	DO	DO	0.37	mg/L	4/24/2023 11:50
MR-AP-MW-7SR	DTW	Depth to Water Detail	16.12	ft	4/24/2023 11:50
MR-AP-MW-7SR	ORP	Oxidation Reduction Potential	-13.75	mv	4/24/2023 11:50
MR-AP-MW-7SR	PH	pH	6.56	SU	4/24/2023 11:50
MR-AP-MW-7SR	TEMP	Temperature	16.23	C	4/24/2023 11:50
MR-AP-MW-7SR	TURB	Turbidity	16.8	NTU	4/24/2023 11:50
MR-AP-MW-7SR	COND	Conductivity	907.14	uS/cm	4/24/2023 11:55
MR-AP-MW-7SR	DO	DO	0.18	mg/L	4/24/2023 11:55
MR-AP-MW-7SR	DTW	Depth to Water Detail	16.12	ft	4/24/2023 11:55
MR-AP-MW-7SR	ORP	Oxidation Reduction Potential	-21.36	mv	4/24/2023 11:55
MR-AP-MW-7SR	PH	pH	6.55	SU	4/24/2023 11:55
MR-AP-MW-7SR	TEMP	Temperature	16.33	C	4/24/2023 11:55
MR-AP-MW-7SR	TURB	Turbidity	5.6	NTU	4/24/2023 11:55
MR-AP-MW-7SR	COND	Conductivity	908.62	uS/cm	4/24/2023 12:00
MR-AP-MW-7SR	DO	DO	0.13	mg/L	4/24/2023 12:00
MR-AP-MW-7SR	DTW	Depth to Water Detail	16.12	ft	4/24/2023 12:00
MR-AP-MW-7SR	ORP	Oxidation Reduction Potential	-25.38	mv	4/24/2023 12:00
MR-AP-MW-7SR	PH	pH	6.54	SU	4/24/2023 12:00
MR-AP-MW-7SR	TEMP	Temperature	16.38	C	4/24/2023 12:00
MR-AP-MW-7SR	TURB	Turbidity	5.12	NTU	4/24/2023 12:00
MR-AP-MW-7SR	COND	Conductivity	908.65	uS/cm	4/24/2023 12:05
MR-AP-MW-7SR	DO	DO	0.11	mg/L	4/24/2023 12:05
MR-AP-MW-7SR	DTW	Depth to Water Detail	16.12	ft	4/24/2023 12:05
MR-AP-MW-7SR	ORP	Oxidation Reduction Potential	-27.9	mv	4/24/2023 12:05
MR-AP-MW-7SR	PH	pH	6.54	SU	4/24/2023 12:05
MR-AP-MW-7SR	SULFIDE	Sulfide	0	mg/L	4/24/2023 12:05
MR-AP-MW-7SR	TEMP	Temperature	16.41	C	4/24/2023 12:05
MR-AP-MW-7SR	TURB	Turbidity	4.91	NTU	4/24/2023 12:05
MR-AP-MW-33H	COND	Conductivity	1371.41	uS/cm	4/25/2023 14:29
MR-AP-MW-33H	DO	DO	0.8	mg/L	4/25/2023 14:29
MR-AP-MW-33H	DTW	Depth to Water Detail	22.93	ft	4/25/2023 14:29
MR-AP-MW-33H	ORP	Oxidation Reduction Potential	-9.9	mv	4/25/2023 14:29
MR-AP-MW-33H	PH	pH	6.6	SU	4/25/2023 14:29
MR-AP-MW-33H	TEMP	Temperature	19.19	C	4/25/2023 14:29
MR-AP-MW-33H	TURB	Turbidity	38.1	NTU	4/25/2023 14:29
MR-AP-MW-33H	COND	Conductivity	1370.07	uS/cm	4/25/2023 14:34
MR-AP-MW-33H	DO	DO	0.63	mg/L	4/25/2023 14:34
MR-AP-MW-33H	DTW	Depth to Water Detail	23.27	ft	4/25/2023 14:34
MR-AP-MW-33H	ORP	Oxidation Reduction Potential	-10.9	mv	4/25/2023 14:34
MR-AP-MW-33H	PH	pH	6.59	SU	4/25/2023 14:34
MR-AP-MW-33H	TEMP	Temperature	18.95	C	4/25/2023 14:34
MR-AP-MW-33H	TURB	Turbidity	26.1	NTU	4/25/2023 14:34
MR-AP-MW-33H	COND	Conductivity	1368.25	uS/cm	4/25/2023 14:39
MR-AP-MW-33H	DO	DO	0.52	mg/L	4/25/2023 14:39
MR-AP-MW-33H	DTW	Depth to Water Detail	23.5	ft	4/25/2023 14:39
MR-AP-MW-33H	ORP	Oxidation Reduction Potential	-11.07	mv	4/25/2023 14:39
MR-AP-MW-33H	PH	pH	6.57	SU	4/25/2023 14:39
MR-AP-MW-33H	TEMP	Temperature	19.62	C	4/25/2023 14:39
MR-AP-MW-33H	TURB	Turbidity	13.4	NTU	4/25/2023 14:39
MR-AP-MW-33H	COND	Conductivity	1364.61	uS/cm	4/25/2023 14:44
MR-AP-MW-33H	DO	DO	0.48	mg/L	4/25/2023 14:44
MR-AP-MW-33H	DTW	Depth to Water Detail	23.65	ft	4/25/2023 14:44
MR-AP-MW-33H	ORP	Oxidation Reduction Potential	-8.71	mv	4/25/2023 14:44
MR-AP-MW-33H	PH	pH	6.54	SU	4/25/2023 14:44
MR-AP-MW-33H	TEMP	Temperature	18.92	C	4/25/2023 14:44
MR-AP-MW-33H	TURB	Turbidity	8.52	NTU	4/25/2023 14:44
MR-AP-MW-33H	COND	Conductivity	1363.54	uS/cm	4/25/2023 14:49

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-33H	DO	DO	0.42	mg/L	4/25/2023 14:49
MR-AP-MW-33H	DTW	Depth to Water Detail	23.74	ft	4/25/2023 14:49
MR-AP-MW-33H	ORP	Oxidation Reduction Potention	-8.21	mv	4/25/2023 14:49
MR-AP-MW-33H	PH	pH	6.54	SU	4/25/2023 14:49
MR-AP-MW-33H	TEMP	Temperature	18.39	C	4/25/2023 14:49
MR-AP-MW-33H	TURB	Turbidity	7.92	NTU	4/25/2023 14:49
MR-AP-MW-33H	COND	Conductivity	1360.53	uS/cm	4/25/2023 14:54
MR-AP-MW-33H	DO	DO	0.42	mg/L	4/25/2023 14:54
MR-AP-MW-33H	DTW	Depth to Water Detail	23.82	ft	4/25/2023 14:54
MR-AP-MW-33H	ORP	Oxidation Reduction Potention	-8.96	mv	4/25/2023 14:54
MR-AP-MW-33H	PH	pH	6.56	SU	4/25/2023 14:54
MR-AP-MW-33H	SULFIDE	Sulfide	0	mg/L	4/25/2023 14:54
MR-AP-MW-33H	TEMP	Temperature	18.07	C	4/25/2023 14:54
MR-AP-MW-33H	TURB	Turbidity	6.59	NTU	4/25/2023 14:54
MR-AP-PZ-5	COND	Conductivity	1183.63	uS/cm	4/25/2023 9:24
MR-AP-PZ-5	DO	DO	0.15	mg/L	4/25/2023 9:24
MR-AP-PZ-5	DTW	Depth to Water Detail	5.59	ft	4/25/2023 9:24
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	-224.81	mv	4/25/2023 9:24
MR-AP-PZ-5	PH	pH	8.41	SU	4/25/2023 9:24
MR-AP-PZ-5	TEMP	Temperature	16.21	C	4/25/2023 9:24
MR-AP-PZ-5	TURB	Turbidity	6	NTU	4/25/2023 9:24
MR-AP-PZ-5	COND	Conductivity	1180.94	uS/cm	4/25/2023 9:29
MR-AP-PZ-5	DO	DO	0.15	mg/L	4/25/2023 9:29
MR-AP-PZ-5	DTW	Depth to Water Detail	7.46	ft	4/25/2023 9:29
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	-250.64	mv	4/25/2023 9:29
MR-AP-PZ-5	PH	pH	8.42	SU	4/25/2023 9:29
MR-AP-PZ-5	TEMP	Temperature	16.06	C	4/25/2023 9:29
MR-AP-PZ-5	TURB	Turbidity	5.78	NTU	4/25/2023 9:29
MR-AP-PZ-5	COND	Conductivity	1172.74	uS/cm	4/25/2023 9:34
MR-AP-PZ-5	DO	DO	0.17	mg/L	4/25/2023 9:34
MR-AP-PZ-5	DTW	Depth to Water Detail	9.32	ft	4/25/2023 9:34
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	-270.23	mv	4/25/2023 9:34
MR-AP-PZ-5	PH	pH	8.42	SU	4/25/2023 9:34
MR-AP-PZ-5	TEMP	Temperature	16.26	C	4/25/2023 9:34
MR-AP-PZ-5	TURB	Turbidity	5.29	NTU	4/25/2023 9:34
MR-AP-PZ-5	COND	Conductivity	1153.55	uS/cm	4/25/2023 9:39
MR-AP-PZ-5	DO	DO	0.16	mg/L	4/25/2023 9:39
MR-AP-PZ-5	DTW	Depth to Water Detail	11.12	ft	4/25/2023 9:39
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	-283.05	mv	4/25/2023 9:39
MR-AP-PZ-5	PH	pH	8.43	SU	4/25/2023 9:39
MR-AP-PZ-5	TEMP	Temperature	16.3	C	4/25/2023 9:39
MR-AP-PZ-5	TURB	Turbidity	4.33	NTU	4/25/2023 9:39
MR-AP-PZ-5	COND	Conductivity	1063.73	uS/cm	4/25/2023 9:44
MR-AP-PZ-5	DO	DO	0.16	mg/L	4/25/2023 9:44
MR-AP-PZ-5	DTW	Depth to Water Detail	12.15	ft	4/25/2023 9:44
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	-289.58	mv	4/25/2023 9:44
MR-AP-PZ-5	PH	pH	8.43	SU	4/25/2023 9:44
MR-AP-PZ-5	TEMP	Temperature	16.33	C	4/25/2023 9:44
MR-AP-PZ-5	TURB	Turbidity	4.2	NTU	4/25/2023 9:44
MR-AP-PZ-5	COND	Conductivity	1025.93	uS/cm	4/25/2023 9:49
MR-AP-PZ-5	DO	DO	0.21	mg/L	4/25/2023 9:49
MR-AP-PZ-5	DTW	Depth to Water Detail	12.51	ft	4/25/2023 9:49
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	-293.72	mv	4/25/2023 9:49
MR-AP-PZ-5	PH	pH	8.47	SU	4/25/2023 9:49
MR-AP-PZ-5	TEMP	Temperature	16.23	C	4/25/2023 9:49
MR-AP-PZ-5	TURB	Turbidity	3.98	NTU	4/25/2023 9:49
MR-AP-PZ-5	COND	Conductivity	992.55	uS/cm	4/25/2023 9:54
MR-AP-PZ-5	DO	DO	0.23	mg/L	4/25/2023 9:54
MR-AP-PZ-5	DTW	Depth to Water Detail	12.65	ft	4/25/2023 9:54
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	-296.52	mv	4/25/2023 9:54
MR-AP-PZ-5	PH	pH	8.46	SU	4/25/2023 9:54
MR-AP-PZ-5	TEMP	Temperature	16.37	C	4/25/2023 9:54
MR-AP-PZ-5	TURB	Turbidity	3.95	NTU	4/25/2023 9:54
MR-AP-PZ-5	COND	Conductivity	946.91	uS/cm	4/25/2023 9:59
MR-AP-PZ-5	DO	DO	0.29	mg/L	4/25/2023 9:59
MR-AP-PZ-5	DTW	Depth to Water Detail	12.74	ft	4/25/2023 9:59
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	-295.32	mv	4/25/2023 9:59
MR-AP-PZ-5	PH	pH	8.47	SU	4/25/2023 9:59
MR-AP-PZ-5	TEMP	Temperature	16.47	C	4/25/2023 9:59
MR-AP-PZ-5	TURB	Turbidity	3.89	NTU	4/25/2023 9:59
MR-AP-PZ-5	COND	Conductivity	1015.45	uS/cm	4/25/2023 10:04
MR-AP-PZ-5	DO	DO	0.31	mg/L	4/25/2023 10:04
MR-AP-PZ-5	DTW	Depth to Water Detail	12.76	ft	4/25/2023 10:04
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	-297.54	mv	4/25/2023 10:04

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-PZ-5	PH	pH	8.47	SU	4/25/2023 10:04
MR-AP-PZ-5	TEMP	Temperature	16.57	C	4/25/2023 10:04
MR-AP-PZ-5	TURB	Turbidity	3.8	NTU	4/25/2023 10:04
MR-AP-PZ-5	COND	Conductivity	962.34	uS/cm	4/25/2023 10:09
MR-AP-PZ-5	DO	DO	0.3	mg/L	4/25/2023 10:09
MR-AP-PZ-5	DTW	Depth to Water Detail	12.76	ft	4/25/2023 10:09
MR-AP-PZ-5	ORP	Oxidation Reduction Potential	-299	mv	4/25/2023 10:09
MR-AP-PZ-5	PH	pH	8.47	SU	4/25/2023 10:09
MR-AP-PZ-5	TEMP	Temperature	16.66	C	4/25/2023 10:09
MR-AP-PZ-5	TURB	Turbidity	3.78	NTU	4/25/2023 10:09
MR-AP-PZ-5	COND	Conductivity	1174.68	uS/cm	4/25/2023 10:14
MR-AP-PZ-5	DO	DO	0.31	mg/L	4/25/2023 10:14
MR-AP-PZ-5	DTW	Depth to Water Detail	12.76	ft	4/25/2023 10:14
MR-AP-PZ-5	ORP	Oxidation Reduction Potential	-299.67	mv	4/25/2023 10:14
MR-AP-PZ-5	PH	pH	8.48	SU	4/25/2023 10:14
MR-AP-PZ-5	TEMP	Temperature	16.7	C	4/25/2023 10:14
MR-AP-PZ-5	TURB	Turbidity	4.1	NTU	4/25/2023 10:14
MR-AP-PZ-5	COND	Conductivity	1156.81	uS/cm	4/25/2023 10:19
MR-AP-PZ-5	DO	DO	0.29	mg/L	4/25/2023 10:19
MR-AP-PZ-5	DTW	Depth to Water Detail	12.76	ft	4/25/2023 10:19
MR-AP-PZ-5	ORP	Oxidation Reduction Potential	-301.66	mv	4/25/2023 10:19
MR-AP-PZ-5	PH	pH	8.48	SU	4/25/2023 10:19
MR-AP-PZ-5	TEMP	Temperature	16.65	C	4/25/2023 10:19
MR-AP-PZ-5	TURB	Turbidity	4.02	NTU	4/25/2023 10:19
MR-AP-PZ-5	COND	Conductivity	1127.06	uS/cm	4/25/2023 10:24
MR-AP-PZ-5	DO	DO	0.21	mg/L	4/25/2023 10:24
MR-AP-PZ-5	DTW	Depth to Water Detail	12.76	ft	4/25/2023 10:24
MR-AP-PZ-5	ORP	Oxidation Reduction Potential	-304.67	mv	4/25/2023 10:24
MR-AP-PZ-5	PH	pH	8.46	SU	4/25/2023 10:24
MR-AP-PZ-5	SULFIDE	Sulfide	9	mg/L	4/25/2023 10:24
MR-AP-PZ-5	TEMP	Temperature	16.97	C	4/25/2023 10:24
MR-AP-PZ-5	TURB	Turbidity	3.92	NTU	4/25/2023 10:24
MR-AP-MW-1	COND	Conductivity	3900.51	uS/cm	5/2/2023 11:07
MR-AP-MW-1	DO	DO	0.62	mg/L	5/2/2023 11:07
MR-AP-MW-1	DTW	Depth to Water Detail	200.52	ft	5/2/2023 11:07
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-292.98	mv	5/2/2023 11:07
MR-AP-MW-1	PH	pH	11.92	SU	5/2/2023 11:07
MR-AP-MW-1	TEMP	Temperature	19.18	C	5/2/2023 11:07
MR-AP-MW-1	TURB	Turbidity	3.59	NTU	5/2/2023 11:07
MR-AP-MW-1	COND	Conductivity	3832.64	uS/cm	5/2/2023 11:12
MR-AP-MW-1	DO	DO	0.41	mg/L	5/2/2023 11:12
MR-AP-MW-1	DTW	Depth to Water Detail	200.52	ft	5/2/2023 11:12
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-294.1	mv	5/2/2023 11:12
MR-AP-MW-1	PH	pH	11.77	SU	5/2/2023 11:12
MR-AP-MW-1	TEMP	Temperature	18.71	C	5/2/2023 11:12
MR-AP-MW-1	TURB	Turbidity	4.53	NTU	5/2/2023 11:12
MR-AP-MW-1	COND	Conductivity	3638.94	uS/cm	5/2/2023 11:17
MR-AP-MW-1	DO	DO	0.31	mg/L	5/2/2023 11:17
MR-AP-MW-1	DTW	Depth to Water Detail	200.52	ft	5/2/2023 11:17
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-302.42	mv	5/2/2023 11:17
MR-AP-MW-1	PH	pH	11.78	SU	5/2/2023 11:17
MR-AP-MW-1	TEMP	Temperature	18.41	C	5/2/2023 11:17
MR-AP-MW-1	TURB	Turbidity	4.5	NTU	5/2/2023 11:17
MR-AP-MW-1	COND	Conductivity	3352.78	uS/cm	5/2/2023 11:22
MR-AP-MW-1	DO	DO	0.26	mg/L	5/2/2023 11:22
MR-AP-MW-1	DTW	Depth to Water Detail	203.55	ft	5/2/2023 11:22
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-310.71	mv	5/2/2023 11:22
MR-AP-MW-1	PH	pH	11.84	SU	5/2/2023 11:22
MR-AP-MW-1	TEMP	Temperature	18.94	C	5/2/2023 11:22
MR-AP-MW-1	TURB	Turbidity	3.22	NTU	5/2/2023 11:22
MR-AP-MW-1	COND	Conductivity	2947.68	uS/cm	5/2/2023 11:27
MR-AP-MW-1	DO	DO	0.22	mg/L	5/2/2023 11:27
MR-AP-MW-1	DTW	Depth to Water Detail	204.64	ft	5/2/2023 11:27
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-319.25	mv	5/2/2023 11:27
MR-AP-MW-1	PH	pH	11.86	SU	5/2/2023 11:27
MR-AP-MW-1	TEMP	Temperature	18.79	C	5/2/2023 11:27
MR-AP-MW-1	TURB	Turbidity	3.56	NTU	5/2/2023 11:27
MR-AP-MW-1	COND	Conductivity	2557.02	uS/cm	5/2/2023 11:32
MR-AP-MW-1	DO	DO	0.19	mg/L	5/2/2023 11:32
MR-AP-MW-1	DTW	Depth to Water Detail	204.64	ft	5/2/2023 11:32
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-323.38	mv	5/2/2023 11:32
MR-AP-MW-1	PH	pH	11.86	SU	5/2/2023 11:32
MR-AP-MW-1	TEMP	Temperature	18.66	C	5/2/2023 11:32
MR-AP-MW-1	TURB	Turbidity	5.92	NTU	5/2/2023 11:32

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-1	COND	Conductivity	2314.18	uS/cm	5/2/2023 11:37
MR-AP-MW-1	DO	DO	0.17	mg/L	5/2/2023 11:37
MR-AP-MW-1	DTW	Depth to Water Detail	204.64	ft	5/2/2023 11:37
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-324.97	mv	5/2/2023 11:37
MR-AP-MW-1	PH	pH	11.84	SU	5/2/2023 11:37
MR-AP-MW-1	TEMP	Temperature	18.49	C	5/2/2023 11:37
MR-AP-MW-1	TURB	Turbidity	8.67	NTU	5/2/2023 11:37
MR-AP-MW-1	COND	Conductivity	1919.51	uS/cm	5/2/2023 11:42
MR-AP-MW-1	DO	DO	0.17	mg/L	5/2/2023 11:42
MR-AP-MW-1	DTW	Depth to Water Detail	207	ft	5/2/2023 11:42
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-324.95	mv	5/2/2023 11:42
MR-AP-MW-1	PH	pH	11.81	SU	5/2/2023 11:42
MR-AP-MW-1	TEMP	Temperature	18.43	C	5/2/2023 11:42
MR-AP-MW-1	TURB	Turbidity	11.1	NTU	5/2/2023 11:42
MR-AP-MW-1	COND	Conductivity	1750.53	uS/cm	5/2/2023 11:47
MR-AP-MW-1	DO	DO	0.14	mg/L	5/2/2023 11:47
MR-AP-MW-1	DTW	Depth to Water Detail	207.58	ft	5/2/2023 11:47
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-323.81	mv	5/2/2023 11:47
MR-AP-MW-1	PH	pH	11.74	SU	5/2/2023 11:47
MR-AP-MW-1	TEMP	Temperature	18.76	C	5/2/2023 11:47
MR-AP-MW-1	TURB	Turbidity	11.7	NTU	5/2/2023 11:47
MR-AP-MW-1	COND	Conductivity	1549.3	uS/cm	5/2/2023 11:52
MR-AP-MW-1	DO	DO	0.11	mg/L	5/2/2023 11:52
MR-AP-MW-1	DTW	Depth to Water Detail	208.35	ft	5/2/2023 11:52
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-324.65	mv	5/2/2023 11:52
MR-AP-MW-1	PH	pH	11.66	SU	5/2/2023 11:52
MR-AP-MW-1	TEMP	Temperature	18.72	C	5/2/2023 11:52
MR-AP-MW-1	TURB	Turbidity	12.7	NTU	5/2/2023 11:52
MR-AP-MW-1	COND	Conductivity	1368	uS/cm	5/2/2023 11:57
MR-AP-MW-1	DO	DO	0.08	mg/L	5/2/2023 11:57
MR-AP-MW-1	DTW	Depth to Water Detail	208.65	ft	5/2/2023 11:57
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-325.11	mv	5/2/2023 11:57
MR-AP-MW-1	PH	pH	11.55	SU	5/2/2023 11:57
MR-AP-MW-1	TEMP	Temperature	18.53	C	5/2/2023 11:57
MR-AP-MW-1	TURB	Turbidity	17	NTU	5/2/2023 11:57
MR-AP-MW-1	COND	Conductivity	1303.84	uS/cm	5/2/2023 12:02
MR-AP-MW-1	DO	DO	0.1	mg/L	5/2/2023 12:02
MR-AP-MW-1	DTW	Depth to Water Detail	208.5	ft	5/2/2023 12:02
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-322.73	mv	5/2/2023 12:02
MR-AP-MW-1	PH	pH	11.44	SU	5/2/2023 12:02
MR-AP-MW-1	TEMP	Temperature	19.21	C	5/2/2023 12:02
MR-AP-MW-1	TURB	Turbidity	11.7	NTU	5/2/2023 12:02
MR-AP-MW-1	COND	Conductivity	1272.34	uS/cm	5/2/2023 12:07
MR-AP-MW-1	DO	DO	0.13	mg/L	5/2/2023 12:07
MR-AP-MW-1	DTW	Depth to Water Detail	208	ft	5/2/2023 12:07
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-316.58	mv	5/2/2023 12:07
MR-AP-MW-1	PH	pH	11.35	SU	5/2/2023 12:07
MR-AP-MW-1	TEMP	Temperature	19.92	C	5/2/2023 12:07
MR-AP-MW-1	TURB	Turbidity	13.6	NTU	5/2/2023 12:07
MR-AP-MW-1	COND	Conductivity	1251.06	uS/cm	5/2/2023 12:12
MR-AP-MW-1	DO	DO	0.12	mg/L	5/2/2023 12:12
MR-AP-MW-1	DTW	Depth to Water Detail	207.5	ft	5/2/2023 12:12
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-315.43	mv	5/2/2023 12:12
MR-AP-MW-1	PH	pH	11.27	SU	5/2/2023 12:12
MR-AP-MW-1	TEMP	Temperature	19.69	C	5/2/2023 12:12
MR-AP-MW-1	TURB	Turbidity	11.6	NTU	5/2/2023 12:12
MR-AP-MW-1	COND	Conductivity	1132.08	uS/cm	5/2/2023 12:17
MR-AP-MW-1	DO	DO	0.06	mg/L	5/2/2023 12:17
MR-AP-MW-1	DTW	Depth to Water Detail	206.85	ft	5/2/2023 12:17
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-315.76	mv	5/2/2023 12:17
MR-AP-MW-1	PH	pH	11.13	SU	5/2/2023 12:17
MR-AP-MW-1	TEMP	Temperature	19.5	C	5/2/2023 12:17
MR-AP-MW-1	TURB	Turbidity	15.5	NTU	5/2/2023 12:17
MR-AP-MW-1	COND	Conductivity	1014.04	uS/cm	5/2/2023 12:22
MR-AP-MW-1	DO	DO	0.04	mg/L	5/2/2023 12:22
MR-AP-MW-1	DTW	Depth to Water Detail	206.7	ft	5/2/2023 12:22
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-310.31	mv	5/2/2023 12:22
MR-AP-MW-1	PH	pH	10.88	SU	5/2/2023 12:22
MR-AP-MW-1	TEMP	Temperature	18.92	C	5/2/2023 12:22
MR-AP-MW-1	TURB	Turbidity	13.3	NTU	5/2/2023 12:22
MR-AP-MW-1	COND	Conductivity	953.55	uS/cm	5/2/2023 12:27
MR-AP-MW-1	DO	DO	0.04	mg/L	5/2/2023 12:27
MR-AP-MW-1	DTW	Depth to Water Detail	206.7	ft	5/2/2023 12:27
MR-AP-MW-1	ORP	Oxidation Reduction Potention	-291.42	mv	5/2/2023 12:27

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-1	PH	pH	10.41	SU	5/2/2023 12:27
MR-AP-MW-1	TEMP	Temperature	19.08	C	5/2/2023 12:27
MR-AP-MW-1	TURB	Turbidity	13.8	NTU	5/2/2023 12:27
MR-AP-MW-1	COND	Conductivity	948.66	uS/cm	5/2/2023 12:32
MR-AP-MW-1	DO	DO	0.04	mg/L	5/2/2023 12:32
MR-AP-MW-1	DTW	Depth to Water Detail	206.72	ft	5/2/2023 12:32
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-268.47	mv	5/2/2023 12:32
MR-AP-MW-1	PH	pH	9.83	SU	5/2/2023 12:32
MR-AP-MW-1	TEMP	Temperature	19.12	C	5/2/2023 12:32
MR-AP-MW-1	TURB	Turbidity	9.11	NTU	5/2/2023 12:32
MR-AP-MW-1	COND	Conductivity	968.26	uS/cm	5/2/2023 12:37
MR-AP-MW-1	DO	DO	0.04	mg/L	5/2/2023 12:37
MR-AP-MW-1	DTW	Depth to Water Detail	206.72	ft	5/2/2023 12:37
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-257.43	mv	5/2/2023 12:37
MR-AP-MW-1	PH	pH	9.35	SU	5/2/2023 12:37
MR-AP-MW-1	TEMP	Temperature	18.93	C	5/2/2023 12:37
MR-AP-MW-1	TURB	Turbidity	6.31	NTU	5/2/2023 12:37
MR-AP-MW-1	COND	Conductivity	1008.76	uS/cm	5/2/2023 12:42
MR-AP-MW-1	DO	DO	0.04	mg/L	5/2/2023 12:42
MR-AP-MW-1	DTW	Depth to Water Detail	206.72	ft	5/2/2023 12:42
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-263.9	mv	5/2/2023 12:42
MR-AP-MW-1	PH	pH	9.09	SU	5/2/2023 12:42
MR-AP-MW-1	TEMP	Temperature	18.8	C	5/2/2023 12:42
MR-AP-MW-1	TURB	Turbidity	5.52	NTU	5/2/2023 12:42
MR-AP-MW-1	COND	Conductivity	1055.26	uS/cm	5/2/2023 12:47
MR-AP-MW-1	DO	DO	0.04	mg/L	5/2/2023 12:47
MR-AP-MW-1	DTW	Depth to Water Detail	206.8	ft	5/2/2023 12:47
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-271.33	mv	5/2/2023 12:47
MR-AP-MW-1	PH	pH	8.92	SU	5/2/2023 12:47
MR-AP-MW-1	TEMP	Temperature	18.56	C	5/2/2023 12:47
MR-AP-MW-1	TURB	Turbidity	5.13	NTU	5/2/2023 12:47
MR-AP-MW-1	COND	Conductivity	1093.97	uS/cm	5/2/2023 12:52
MR-AP-MW-1	DO	DO	0.01	mg/L	5/2/2023 12:52
MR-AP-MW-1	DTW	Depth to Water Detail	206.8	ft	5/2/2023 12:52
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-278.14	mv	5/2/2023 12:52
MR-AP-MW-1	PH	pH	8.8	SU	5/2/2023 12:52
MR-AP-MW-1	TEMP	Temperature	18.94	C	5/2/2023 12:52
MR-AP-MW-1	TURB	Turbidity	4.69	NTU	5/2/2023 12:52
MR-AP-MW-1	COND	Conductivity	1129.53	uS/cm	5/2/2023 12:57
MR-AP-MW-1	DO	DO	0	mg/L	5/2/2023 12:57
MR-AP-MW-1	DTW	Depth to Water Detail	206.8	ft	5/2/2023 12:57
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-288.07	mv	5/2/2023 12:57
MR-AP-MW-1	PH	pH	8.71	SU	5/2/2023 12:57
MR-AP-MW-1	TEMP	Temperature	18.73	C	5/2/2023 12:57
MR-AP-MW-1	TURB	Turbidity	4.98	NTU	5/2/2023 12:57
MR-AP-MW-1	COND	Conductivity	1164.41	uS/cm	5/2/2023 13:02
MR-AP-MW-1	DO	DO	0	mg/L	5/2/2023 13:02
MR-AP-MW-1	DTW	Depth to Water Detail	206.98	ft	5/2/2023 13:02
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-295.33	mv	5/2/2023 13:02
MR-AP-MW-1	PH	pH	8.64	SU	5/2/2023 13:02
MR-AP-MW-1	TEMP	Temperature	18.58	C	5/2/2023 13:02
MR-AP-MW-1	TURB	Turbidity	7.65	NTU	5/2/2023 13:02
MR-AP-MW-1	COND	Conductivity	1187.38	uS/cm	5/2/2023 13:07
MR-AP-MW-1	DO	DO	0	mg/L	5/2/2023 13:07
MR-AP-MW-1	DTW	Depth to Water Detail	207	ft	5/2/2023 13:07
MR-AP-MW-1	ORP	Oxidation Reduction Potential	-304.36	mv	5/2/2023 13:07
MR-AP-MW-1	PH	pH	8.6	SU	5/2/2023 13:07
MR-AP-MW-1	SULFIDE	Sulfide	0	mg/L	5/2/2023 13:07
MR-AP-MW-1	TEMP	Temperature	18.33	C	5/2/2023 13:07
MR-AP-MW-1	TURB	Turbidity	6.16	NTU	5/2/2023 13:07
MR-AP-MW-3D	COND	Conductivity	868.35	uS/cm	5/2/2023 11:29
MR-AP-MW-3D	DO	DO	2.67	mg/L	5/2/2023 11:29
MR-AP-MW-3D	DTW	Depth to Water Detail	118.51	ft	5/2/2023 11:29
MR-AP-MW-3D	ORP	Oxidation Reduction Potential	-40.36	mv	5/2/2023 11:29
MR-AP-MW-3D	PH	pH	7.03	SU	5/2/2023 11:29
MR-AP-MW-3D	TEMP	Temperature	20.24	C	5/2/2023 11:29
MR-AP-MW-3D	TURB	Turbidity	16.7	NTU	5/2/2023 11:29
MR-AP-MW-3D	COND	Conductivity	857.77	uS/cm	5/2/2023 11:34
MR-AP-MW-3D	DO	DO	1.13	mg/L	5/2/2023 11:34
MR-AP-MW-3D	DTW	Depth to Water Detail	118.54	ft	5/2/2023 11:34
MR-AP-MW-3D	ORP	Oxidation Reduction Potential	-52.46	mv	5/2/2023 11:34
MR-AP-MW-3D	PH	pH	6.91	SU	5/2/2023 11:34
MR-AP-MW-3D	TEMP	Temperature	20.13	C	5/2/2023 11:34
MR-AP-MW-3D	TURB	Turbidity	11.6	NTU	5/2/2023 11:34

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-3D	COND	Conductivity	854.27	uS/cm	5/2/2023 11:39
MR-AP-MW-3D	DO	DO	0.87	mg/L	5/2/2023 11:39
MR-AP-MW-3D	DTW	Depth to Water Detail	118.54	ft	5/2/2023 11:39
MR-AP-MW-3D	ORP	Oxidation Reduction Potention	-56.24	mv	5/2/2023 11:39
MR-AP-MW-3D	PH	pH	6.87	SU	5/2/2023 11:39
MR-AP-MW-3D	TEMP	Temperature	19.97	C	5/2/2023 11:39
MR-AP-MW-3D	TURB	Turbidity	7.97	NTU	5/2/2023 11:39
MR-AP-MW-3D	COND	Conductivity	852.78	uS/cm	5/2/2023 11:44
MR-AP-MW-3D	DO	DO	0.73	mg/L	5/2/2023 11:44
MR-AP-MW-3D	DTW	Depth to Water Detail	118.54	ft	5/2/2023 11:44
MR-AP-MW-3D	ORP	Oxidation Reduction Potention	-60.53	mv	5/2/2023 11:44
MR-AP-MW-3D	PH	pH	6.85	SU	5/2/2023 11:44
MR-AP-MW-3D	TEMP	Temperature	20.1	C	5/2/2023 11:44
MR-AP-MW-3D	TURB	Turbidity	10.25	NTU	5/2/2023 11:44
MR-AP-MW-3D	COND	Conductivity	852.59	uS/cm	5/2/2023 11:49
MR-AP-MW-3D	DO	DO	0.65	mg/L	5/2/2023 11:49
MR-AP-MW-3D	DTW	Depth to Water Detail	118.54	ft	5/2/2023 11:49
MR-AP-MW-3D	ORP	Oxidation Reduction Potention	-61.77	mv	5/2/2023 11:49
MR-AP-MW-3D	PH	pH	6.83	SU	5/2/2023 11:49
MR-AP-MW-3D	TEMP	Temperature	20.03	C	5/2/2023 11:49
MR-AP-MW-3D	TURB	Turbidity	8.68	NTU	5/2/2023 11:49
MR-AP-MW-3D	COND	Conductivity	851.31	uS/cm	5/2/2023 11:54
MR-AP-MW-3D	DO	DO	0.57	mg/L	5/2/2023 11:54
MR-AP-MW-3D	DTW	Depth to Water Detail	118.54	ft	5/2/2023 11:54
MR-AP-MW-3D	ORP	Oxidation Reduction Potention	-62.51	mv	5/2/2023 11:54
MR-AP-MW-3D	PH	pH	6.82	SU	5/2/2023 11:54
MR-AP-MW-3D	SULFIDE	Sulfide	0	mg/L	5/2/2023 11:54
MR-AP-MW-3D	TEMP	Temperature	20.11	C	5/2/2023 11:54
MR-AP-MW-3D	TURB	Turbidity	7.86	NTU	5/2/2023 11:54
MR-AP-MW-3S	COND	Conductivity	1065.87	uS/cm	5/2/2023 10:32
MR-AP-MW-3S	DO	DO	0.91	mg/L	5/2/2023 10:32
MR-AP-MW-3S	DTW	Depth to Water Detail	98.37	ft	5/2/2023 10:32
MR-AP-MW-3S	ORP	Oxidation Reduction Potention	-134.51	mv	5/2/2023 10:32
MR-AP-MW-3S	PH	pH	9.17	SU	5/2/2023 10:32
MR-AP-MW-3S	TEMP	Temperature	19.33	C	5/2/2023 10:32
MR-AP-MW-3S	TURB	Turbidity	7.92	NTU	5/2/2023 10:32
MR-AP-MW-3S	COND	Conductivity	1043.52	uS/cm	5/2/2023 10:37
MR-AP-MW-3S	DO	DO	0.65	mg/L	5/2/2023 10:37
MR-AP-MW-3S	DTW	Depth to Water Detail	98.42	ft	5/2/2023 10:37
MR-AP-MW-3S	ORP	Oxidation Reduction Potention	-131.33	mv	5/2/2023 10:37
MR-AP-MW-3S	PH	pH	9.13	SU	5/2/2023 10:37
MR-AP-MW-3S	TEMP	Temperature	19.22	C	5/2/2023 10:37
MR-AP-MW-3S	TURB	Turbidity	8.64	NTU	5/2/2023 10:37
MR-AP-MW-3S	COND	Conductivity	1038.42	uS/cm	5/2/2023 10:42
MR-AP-MW-3S	DO	DO	0.54	mg/L	5/2/2023 10:42
MR-AP-MW-3S	DTW	Depth to Water Detail	98.49	ft	5/2/2023 10:42
MR-AP-MW-3S	ORP	Oxidation Reduction Potention	-134.97	mv	5/2/2023 10:42
MR-AP-MW-3S	PH	pH	9.27	SU	5/2/2023 10:42
MR-AP-MW-3S	TEMP	Temperature	19.44	C	5/2/2023 10:42
MR-AP-MW-3S	TURB	Turbidity	8.72	NTU	5/2/2023 10:42
MR-AP-MW-3S	COND	Conductivity	1033.25	uS/cm	5/2/2023 10:47
MR-AP-MW-3S	DO	DO	0.48	mg/L	5/2/2023 10:47
MR-AP-MW-3S	DTW	Depth to Water Detail	98.54	ft	5/2/2023 10:47
MR-AP-MW-3S	ORP	Oxidation Reduction Potention	-134.28	mv	5/2/2023 10:47
MR-AP-MW-3S	PH	pH	9.28	SU	5/2/2023 10:47
MR-AP-MW-3S	SULFIDE	Sulfide	0	mg/L	5/2/2023 10:47
MR-AP-MW-3S	TEMP	Temperature	19.37	C	5/2/2023 10:47
MR-AP-MW-3S	TURB	Turbidity	8.34	NTU	5/2/2023 10:47
MR-AP-MW-4	COND	Conductivity	910.01	uS/cm	5/2/2023 9:21
MR-AP-MW-4	DO	DO	0.48	mg/L	5/2/2023 9:21
MR-AP-MW-4	DTW	Depth to Water Detail	54.11	ft	5/2/2023 9:21
MR-AP-MW-4	ORP	Oxidation Reduction Potention	112.09	mv	5/2/2023 9:21
MR-AP-MW-4	PH	pH	6.49	SU	5/2/2023 9:21
MR-AP-MW-4	TEMP	Temperature	19.22	C	5/2/2023 9:21
MR-AP-MW-4	TURB	Turbidity	5.76	NTU	5/2/2023 9:21
MR-AP-MW-4	COND	Conductivity	903.22	uS/cm	5/2/2023 9:26
MR-AP-MW-4	DO	DO	0.38	mg/L	5/2/2023 9:26
MR-AP-MW-4	DTW	Depth to Water Detail	54.3	ft	5/2/2023 9:26
MR-AP-MW-4	ORP	Oxidation Reduction Potention	110.82	mv	5/2/2023 9:26
MR-AP-MW-4	PH	pH	6.19	SU	5/2/2023 9:26
MR-AP-MW-4	TEMP	Temperature	19.29	C	5/2/2023 9:26
MR-AP-MW-4	TURB	Turbidity	5.22	NTU	5/2/2023 9:26
MR-AP-MW-4	COND	Conductivity	882.4	uS/cm	5/2/2023 9:31
MR-AP-MW-4	DO	DO	0.28	mg/L	5/2/2023 9:31

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-4	DTW	Depth to Water Detail	54.37	ft	5/2/2023 9:31
MR-AP-MW-4	ORP	Oxidation Reduction Potention	112.06	mv	5/2/2023 9:31
MR-AP-MW-4	PH	pH	6.12	SU	5/2/2023 9:31
MR-AP-MW-4	TEMP	Temperature	19.32	C	5/2/2023 9:31
MR-AP-MW-4	TURB	Turbidity	4.68	NTU	5/2/2023 9:31
MR-AP-MW-4	COND	Conductivity	882.22	uS/cm	5/2/2023 9:36
MR-AP-MW-4	DO	DO	0.23	mg/L	5/2/2023 9:36
MR-AP-MW-4	DTW	Depth to Water Detail	54.42	ft	5/2/2023 9:36
MR-AP-MW-4	ORP	Oxidation Reduction Potention	117.1	mv	5/2/2023 9:36
MR-AP-MW-4	PH	pH	6.07	SU	5/2/2023 9:36
MR-AP-MW-4	SULFIDE	Sulfide	0	mg/L	5/2/2023 9:36
MR-AP-MW-4	TEMP	Temperature	19.44	C	5/2/2023 9:36
MR-AP-MW-4	TURB	Turbidity	4.78	NTU	5/2/2023 9:36
MR-AP-MW-4V	COND	Conductivity	896.3	uS/cm	5/2/2023 8:08
MR-AP-MW-4V	DO	DO	0.34	mg/L	5/2/2023 8:08
MR-AP-MW-4V	DTW	Depth to Water Detail	99.56	ft	5/2/2023 8:08
MR-AP-MW-4V	ORP	Oxidation Reduction Potention	-85.77	mv	5/2/2023 8:08
MR-AP-MW-4V	PH	pH	6.82	SU	5/2/2023 8:08
MR-AP-MW-4V	TEMP	Temperature	18.2	C	5/2/2023 8:08
MR-AP-MW-4V	TURB	Turbidity	50	NTU	5/2/2023 8:08
MR-AP-MW-4V	COND	Conductivity	828.31	uS/cm	5/2/2023 8:13
MR-AP-MW-4V	DO	DO	0.3	mg/L	5/2/2023 8:13
MR-AP-MW-4V	DTW	Depth to Water Detail	99.75	ft	5/2/2023 8:13
MR-AP-MW-4V	ORP	Oxidation Reduction Potention	-52.43	mv	5/2/2023 8:13
MR-AP-MW-4V	PH	pH	6.75	SU	5/2/2023 8:13
MR-AP-MW-4V	TEMP	Temperature	18.1	C	5/2/2023 8:13
MR-AP-MW-4V	TURB	Turbidity	35.3	NTU	5/2/2023 8:13
MR-AP-MW-4V	COND	Conductivity	849	uS/cm	5/2/2023 8:18
MR-AP-MW-4V	DO	DO	0.27	mg/L	5/2/2023 8:18
MR-AP-MW-4V	DTW	Depth to Water Detail	99.9	ft	5/2/2023 8:18
MR-AP-MW-4V	ORP	Oxidation Reduction Potention	-37.3	mv	5/2/2023 8:18
MR-AP-MW-4V	PH	pH	6.71	SU	5/2/2023 8:18
MR-AP-MW-4V	TEMP	Temperature	18.06	C	5/2/2023 8:18
MR-AP-MW-4V	TURB	Turbidity	24.8	NTU	5/2/2023 8:18
MR-AP-MW-4V	COND	Conductivity	852.9	uS/cm	5/2/2023 8:23
MR-AP-MW-4V	DO	DO	0.3	mg/L	5/2/2023 8:23
MR-AP-MW-4V	DTW	Depth to Water Detail	99.96	ft	5/2/2023 8:23
MR-AP-MW-4V	ORP	Oxidation Reduction Potention	-23.54	mv	5/2/2023 8:23
MR-AP-MW-4V	PH	pH	6.67	SU	5/2/2023 8:23
MR-AP-MW-4V	TEMP	Temperature	18.17	C	5/2/2023 8:23
MR-AP-MW-4V	TURB	Turbidity	10.9	NTU	5/2/2023 8:23
MR-AP-MW-4V	COND	Conductivity	851.08	uS/cm	5/2/2023 8:28
MR-AP-MW-4V	DO	DO	0.28	mg/L	5/2/2023 8:28
MR-AP-MW-4V	DTW	Depth to Water Detail	100.01	ft	5/2/2023 8:28
MR-AP-MW-4V	ORP	Oxidation Reduction Potention	-8.58	mv	5/2/2023 8:28
MR-AP-MW-4V	PH	pH	6.62	SU	5/2/2023 8:28
MR-AP-MW-4V	TEMP	Temperature	18.24	C	5/2/2023 8:28
MR-AP-MW-4V	TURB	Turbidity	10	NTU	5/2/2023 8:28
MR-AP-MW-4V	COND	Conductivity	841.74	uS/cm	5/2/2023 8:33
MR-AP-MW-4V	DO	DO	0.4	mg/L	5/2/2023 8:33
MR-AP-MW-4V	DTW	Depth to Water Detail	100.06	ft	5/2/2023 8:33
MR-AP-MW-4V	ORP	Oxidation Reduction Potention	1.71	mv	5/2/2023 8:33
MR-AP-MW-4V	PH	pH	6.59	SU	5/2/2023 8:33
MR-AP-MW-4V	SULFIDE	Sulfide	0	mg/L	5/2/2023 8:33
MR-AP-MW-4V	TEMP	Temperature	18.27	C	5/2/2023 8:33
MR-AP-MW-4V	TURB	Turbidity	8.35	NTU	5/2/2023 8:33
MR-AP-MW-14R	COND	Conductivity	326.64	uS/cm	5/2/2023 13:06
MR-AP-MW-14R	DO	DO	0.11	mg/L	5/2/2023 13:06
MR-AP-MW-14R	DTW	Depth to Water Detail	17.69	ft	5/2/2023 13:06
MR-AP-MW-14R	ORP	Oxidation Reduction Potention	-38.32	mv	5/2/2023 13:06
MR-AP-MW-14R	PH	pH	6.48	SU	5/2/2023 13:06
MR-AP-MW-14R	TEMP	Temperature	19.51	C	5/2/2023 13:06
MR-AP-MW-14R	TURB	Turbidity	4.78	NTU	5/2/2023 13:06
MR-AP-MW-14R	COND	Conductivity	322.21	uS/cm	5/2/2023 13:11
MR-AP-MW-14R	DO	DO	0.12	mg/L	5/2/2023 13:11
MR-AP-MW-14R	DTW	Depth to Water Detail	17.82	ft	5/2/2023 13:11
MR-AP-MW-14R	ORP	Oxidation Reduction Potention	-36.14	mv	5/2/2023 13:11
MR-AP-MW-14R	PH	pH	6.43	SU	5/2/2023 13:11
MR-AP-MW-14R	TEMP	Temperature	19.54	C	5/2/2023 13:11
MR-AP-MW-14R	TURB	Turbidity	4.12	NTU	5/2/2023 13:11
MR-AP-MW-14R	COND	Conductivity	320.8	uS/cm	5/2/2023 13:16
MR-AP-MW-14R	DO	DO	0.24	mg/L	5/2/2023 13:16
MR-AP-MW-14R	DTW	Depth to Water Detail	17.88	ft	5/2/2023 13:16
MR-AP-MW-14R	ORP	Oxidation Reduction Potention	-35.48	mv	5/2/2023 13:16

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-14R	PH	pH	6.41	SU	5/2/2023 13:16
MR-AP-MW-14R	TEMP	Temperature	19.83	C	5/2/2023 13:16
MR-AP-MW-14R	TURB	Turbidity	3.88	NTU	5/2/2023 13:16
MR-AP-MW-14R	COND	Conductivity	313.68	uS/cm	5/2/2023 13:21
MR-AP-MW-14R	DO	DO	0.34	mg/L	5/2/2023 13:21
MR-AP-MW-14R	DTW	Depth to Water Detail	17.95	ft	5/2/2023 13:21
MR-AP-MW-14R	ORP	Oxidation Reduction Potention	-35.45	mv	5/2/2023 13:21
MR-AP-MW-14R	PH	pH	6.4	SU	5/2/2023 13:21
MR-AP-MW-14R	SULFIDE	Sulfide	0	mg/L	5/2/2023 13:21
MR-AP-MW-14R	TEMP	Temperature	19.98	C	5/2/2023 13:21
MR-AP-MW-14R	TURB	Turbidity	3.3	NTU	5/2/2023 13:21
MR-AP-MW-21	COND	Conductivity	757.73	uS/cm	5/2/2023 14:45
MR-AP-MW-21	DO	DO	0.34	mg/L	5/2/2023 14:45
MR-AP-MW-21	DTW	Depth to Water Detail	20.67	ft	5/2/2023 14:45
MR-AP-MW-21	ORP	Oxidation Reduction Potention	-252.68	mv	5/2/2023 14:45
MR-AP-MW-21	PH	pH	7.71	SU	5/2/2023 14:45
MR-AP-MW-21	TEMP	Temperature	23.03	C	5/2/2023 14:45
MR-AP-MW-21	TURB	Turbidity	6.09	NTU	5/2/2023 14:45
MR-AP-MW-21	COND	Conductivity	854.16	uS/cm	5/2/2023 14:50
MR-AP-MW-21	DO	DO	0.32	mg/L	5/2/2023 14:50
MR-AP-MW-21	DTW	Depth to Water Detail	20.66	ft	5/2/2023 14:50
MR-AP-MW-21	ORP	Oxidation Reduction Potention	-243.39	mv	5/2/2023 14:50
MR-AP-MW-21	PH	pH	7.69	SU	5/2/2023 14:50
MR-AP-MW-21	TEMP	Temperature	22.91	C	5/2/2023 14:50
MR-AP-MW-21	TURB	Turbidity	4.17	NTU	5/2/2023 14:50
MR-AP-MW-21	COND	Conductivity	872.28	uS/cm	5/2/2023 14:55
MR-AP-MW-21	DO	DO	0.35	mg/L	5/2/2023 14:55
MR-AP-MW-21	DTW	Depth to Water Detail	20.66	ft	5/2/2023 14:55
MR-AP-MW-21	ORP	Oxidation Reduction Potention	-235.05	mv	5/2/2023 14:55
MR-AP-MW-21	PH	pH	7.64	SU	5/2/2023 14:55
MR-AP-MW-21	TEMP	Temperature	22.53	C	5/2/2023 14:55
MR-AP-MW-21	TURB	Turbidity	3.97	NTU	5/2/2023 14:55
MR-AP-MW-21	COND	Conductivity	867.8	uS/cm	5/2/2023 15:00
MR-AP-MW-21	DO	DO	0.33	mg/L	5/2/2023 15:00
MR-AP-MW-21	DTW	Depth to Water Detail	20.66	ft	5/2/2023 15:00
MR-AP-MW-21	ORP	Oxidation Reduction Potention	-233.34	mv	5/2/2023 15:00
MR-AP-MW-21	PH	pH	7.65	SU	5/2/2023 15:00
MR-AP-MW-21	SULFIDE	Sulfide	1	mg/L	5/2/2023 15:00
MR-AP-MW-21	TEMP	Temperature	23.19	C	5/2/2023 15:00
MR-AP-MW-21	TURB	Turbidity	3.85	NTU	5/2/2023 15:00
MR-AP-MW-23	COND	Conductivity	7996.2	uS/cm	5/1/2023 14:05
MR-AP-MW-23	DO	DO	0.33	mg/L	5/1/2023 14:05
MR-AP-MW-23	DTW	Depth to Water Detail	55.02	ft	5/1/2023 14:05
MR-AP-MW-23	ORP	Oxidation Reduction Potention	-165.8	mv	5/1/2023 14:05
MR-AP-MW-23	PH	pH	7.57	SU	5/1/2023 14:05
MR-AP-MW-23	TEMP	Temperature	20.78	C	5/1/2023 14:05
MR-AP-MW-23	TURB	Turbidity	4.08	NTU	5/1/2023 14:05
MR-AP-MW-23	COND	Conductivity	7998.98	uS/cm	5/1/2023 14:10
MR-AP-MW-23	DO	DO	0.35	mg/L	5/1/2023 14:10
MR-AP-MW-23	DTW	Depth to Water Detail	55.08	ft	5/1/2023 14:10
MR-AP-MW-23	ORP	Oxidation Reduction Potention	-161.97	mv	5/1/2023 14:10
MR-AP-MW-23	PH	pH	7.58	SU	5/1/2023 14:10
MR-AP-MW-23	TEMP	Temperature	20.69	C	5/1/2023 14:10
MR-AP-MW-23	TURB	Turbidity	3.7	NTU	5/1/2023 14:10
MR-AP-MW-23	COND	Conductivity	8008.92	uS/cm	5/1/2023 14:15
MR-AP-MW-23	DO	DO	0.36	mg/L	5/1/2023 14:15
MR-AP-MW-23	DTW	Depth to Water Detail	55.11	ft	5/1/2023 14:15
MR-AP-MW-23	ORP	Oxidation Reduction Potention	-159.34	mv	5/1/2023 14:15
MR-AP-MW-23	PH	pH	7.58	SU	5/1/2023 14:15
MR-AP-MW-23	TEMP	Temperature	20.42	C	5/1/2023 14:15
MR-AP-MW-23	TURB	Turbidity	4.27	NTU	5/1/2023 14:15
MR-AP-MW-23	COND	Conductivity	8018.49	uS/cm	5/1/2023 14:20
MR-AP-MW-23	DO	DO	0.35	mg/L	5/1/2023 14:20
MR-AP-MW-23	DTW	Depth to Water Detail	55.14	ft	5/1/2023 14:20
MR-AP-MW-23	ORP	Oxidation Reduction Potention	-158.25	mv	5/1/2023 14:20
MR-AP-MW-23	PH	pH	7.59	SU	5/1/2023 14:20
MR-AP-MW-23	SULFIDE	Sulfide	0	mg/L	5/1/2023 14:20
MR-AP-MW-23	TEMP	Temperature	20.47	C	5/1/2023 14:20
MR-AP-MW-23	TURB	Turbidity	4.05	NTU	5/1/2023 14:20
MR-AP-MW-23A	COND	Conductivity	8192.64	uS/cm	5/1/2023 11:00
MR-AP-MW-23A	DO	DO	0.63	mg/L	5/1/2023 11:00
MR-AP-MW-23A	DTW	Depth to Water Detail	40.15	ft	5/1/2023 11:00
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-105.06	mv	5/1/2023 11:00
MR-AP-MW-23A	PH	pH	7.34	SU	5/1/2023 11:00

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-23A	TEMP	Temperature	19.75	C	5/1/2023 11:00
MR-AP-MW-23A	TURB	Turbidity	3.39	NTU	5/1/2023 11:00
MR-AP-MW-23A	COND	Conductivity	8212.64	uS/cm	5/1/2023 11:05
MR-AP-MW-23A	DO	DO	0.59	mg/L	5/1/2023 11:05
MR-AP-MW-23A	DTW	Depth to Water Detail	40.52	ft	5/1/2023 11:05
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-114.14	mv	5/1/2023 11:05
MR-AP-MW-23A	PH	pH	7.37	SU	5/1/2023 11:05
MR-AP-MW-23A	TEMP	Temperature	19.91	C	5/1/2023 11:05
MR-AP-MW-23A	TURB	Turbidity	3.27	NTU	5/1/2023 11:05
MR-AP-MW-23A	COND	Conductivity	8200.07	uS/cm	5/1/2023 11:10
MR-AP-MW-23A	DO	DO	0.63	mg/L	5/1/2023 11:10
MR-AP-MW-23A	DTW	Depth to Water Detail	40.82	ft	5/1/2023 11:10
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-114.71	mv	5/1/2023 11:10
MR-AP-MW-23A	PH	pH	7.38	SU	5/1/2023 11:10
MR-AP-MW-23A	TEMP	Temperature	19.83	C	5/1/2023 11:10
MR-AP-MW-23A	TURB	Turbidity	3.11	NTU	5/1/2023 11:10
MR-AP-MW-23A	COND	Conductivity	8170.28	uS/cm	5/1/2023 11:15
MR-AP-MW-23A	DO	DO	0.61	mg/L	5/1/2023 11:15
MR-AP-MW-23A	DTW	Depth to Water Detail	41.13	ft	5/1/2023 11:15
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-114.27	mv	5/1/2023 11:15
MR-AP-MW-23A	PH	pH	7.38	SU	5/1/2023 11:15
MR-AP-MW-23A	TEMP	Temperature	19.65	C	5/1/2023 11:15
MR-AP-MW-23A	TURB	Turbidity	3.31	NTU	5/1/2023 11:15
MR-AP-MW-23A	COND	Conductivity	8161.46	uS/cm	5/1/2023 11:20
MR-AP-MW-23A	DO	DO	0.61	mg/L	5/1/2023 11:20
MR-AP-MW-23A	DTW	Depth to Water Detail	41.48	ft	5/1/2023 11:20
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-113.67	mv	5/1/2023 11:20
MR-AP-MW-23A	PH	pH	7.38	SU	5/1/2023 11:20
MR-AP-MW-23A	TEMP	Temperature	19.62	C	5/1/2023 11:20
MR-AP-MW-23A	TURB	Turbidity	3.03	NTU	5/1/2023 11:20
MR-AP-MW-23A	COND	Conductivity	8135.29	uS/cm	5/1/2023 11:25
MR-AP-MW-23A	DO	DO	0.63	mg/L	5/1/2023 11:25
MR-AP-MW-23A	DTW	Depth to Water Detail	41.8	ft	5/1/2023 11:25
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-113.55	mv	5/1/2023 11:25
MR-AP-MW-23A	PH	pH	7.38	SU	5/1/2023 11:25
MR-AP-MW-23A	TEMP	Temperature	20.02	C	5/1/2023 11:25
MR-AP-MW-23A	TURB	Turbidity	2.95	NTU	5/1/2023 11:25
MR-AP-MW-23A	COND	Conductivity	8118.71	uS/cm	5/1/2023 11:30
MR-AP-MW-23A	DO	DO	0.65	mg/L	5/1/2023 11:30
MR-AP-MW-23A	DTW	Depth to Water Detail	42.12	ft	5/1/2023 11:30
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-113.23	mv	5/1/2023 11:30
MR-AP-MW-23A	PH	pH	7.38	SU	5/1/2023 11:30
MR-AP-MW-23A	TEMP	Temperature	20.03	C	5/1/2023 11:30
MR-AP-MW-23A	TURB	Turbidity	2.9	NTU	5/1/2023 11:30
MR-AP-MW-23A	COND	Conductivity	8134.13	uS/cm	5/1/2023 11:35
MR-AP-MW-23A	DO	DO	0.63	mg/L	5/1/2023 11:35
MR-AP-MW-23A	DTW	Depth to Water Detail	42.38	ft	5/1/2023 11:35
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-113.06	mv	5/1/2023 11:35
MR-AP-MW-23A	PH	pH	7.38	SU	5/1/2023 11:35
MR-AP-MW-23A	TEMP	Temperature	20.31	C	5/1/2023 11:35
MR-AP-MW-23A	TURB	Turbidity	2.89	NTU	5/1/2023 11:35
MR-AP-MW-23A	COND	Conductivity	8124.82	uS/cm	5/1/2023 11:40
MR-AP-MW-23A	DO	DO	0.6	mg/L	5/1/2023 11:40
MR-AP-MW-23A	DTW	Depth to Water Detail	42.6	ft	5/1/2023 11:40
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-112.79	mv	5/1/2023 11:40
MR-AP-MW-23A	PH	pH	7.39	SU	5/1/2023 11:40
MR-AP-MW-23A	TEMP	Temperature	20.15	C	5/1/2023 11:40
MR-AP-MW-23A	TURB	Turbidity	2.98	NTU	5/1/2023 11:40
MR-AP-MW-23A	COND	Conductivity	8139.59	uS/cm	5/1/2023 11:45
MR-AP-MW-23A	DO	DO	0.61	mg/L	5/1/2023 11:45
MR-AP-MW-23A	DTW	Depth to Water Detail	42.8	ft	5/1/2023 11:45
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-112.69	mv	5/1/2023 11:45
MR-AP-MW-23A	PH	pH	7.39	SU	5/1/2023 11:45
MR-AP-MW-23A	TEMP	Temperature	20.11	C	5/1/2023 11:45
MR-AP-MW-23A	TURB	Turbidity	2.96	NTU	5/1/2023 11:45
MR-AP-MW-23A	COND	Conductivity	8136.76	uS/cm	5/1/2023 11:50
MR-AP-MW-23A	DO	DO	0.63	mg/L	5/1/2023 11:50
MR-AP-MW-23A	DTW	Depth to Water Detail	43.01	ft	5/1/2023 11:50
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-112.52	mv	5/1/2023 11:50
MR-AP-MW-23A	PH	pH	7.4	SU	5/1/2023 11:50
MR-AP-MW-23A	TEMP	Temperature	20.05	C	5/1/2023 11:50
MR-AP-MW-23A	TURB	Turbidity	2.77	NTU	5/1/2023 11:50
MR-AP-MW-23A	COND	Conductivity	8140.86	uS/cm	5/1/2023 11:55
MR-AP-MW-23A	DO	DO	0.62	mg/L	5/1/2023 11:55

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-23A	DTW	Depth to Water Detail	43.17	ft	5/1/2023 11:55
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-112.57	mv	5/1/2023 11:55
MR-AP-MW-23A	PH	pH	7.4	SU	5/1/2023 11:55
MR-AP-MW-23A	TEMP	Temperature	20.18	C	5/1/2023 11:55
MR-AP-MW-23A	TURB	Turbidity	2.7	NTU	5/1/2023 11:55
MR-AP-MW-23A	COND	Conductivity	8140.54	uS/cm	5/1/2023 12:00
MR-AP-MW-23A	DO	DO	0.62	mg/L	5/1/2023 12:00
MR-AP-MW-23A	DTW	Depth to Water Detail	43.28	ft	5/1/2023 12:00
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	-112.9	mv	5/1/2023 12:00
MR-AP-MW-23A	PH	pH	7.4	SU	5/1/2023 12:00
MR-AP-MW-23A	SULFIDE	Sulfide	0	mg/L	5/1/2023 12:00
MR-AP-MW-23A	TEMP	Temperature	20.23	C	5/1/2023 12:00
MR-AP-MW-23A	TURB	Turbidity	2.66	NTU	5/1/2023 12:00
MR-AP-MW-9DR	COND	Conductivity	1351.49	uS/cm	5/3/2023 10:56
MR-AP-MW-9DR	DO	DO	0.23	mg/L	5/3/2023 10:56
MR-AP-MW-9DR	DTW	Depth to Water Detail	81.72	ft	5/3/2023 10:56
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	-81.62	mv	5/3/2023 10:56
MR-AP-MW-9DR	PH	pH	6.63	SU	5/3/2023 10:56
MR-AP-MW-9DR	TEMP	Temperature	17.28	C	5/3/2023 10:56
MR-AP-MW-9DR	TURB	Turbidity	3.41	NTU	5/3/2023 10:56
MR-AP-MW-9DR	COND	Conductivity	1339.85	uS/cm	5/3/2023 11:01
MR-AP-MW-9DR	DO	DO	0.17	mg/L	5/3/2023 11:01
MR-AP-MW-9DR	DTW	Depth to Water Detail	82.29	ft	5/3/2023 11:01
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	-82.16	mv	5/3/2023 11:01
MR-AP-MW-9DR	PH	pH	6.6	SU	5/3/2023 11:01
MR-AP-MW-9DR	TEMP	Temperature	17.15	C	5/3/2023 11:01
MR-AP-MW-9DR	TURB	Turbidity	3.88	NTU	5/3/2023 11:01
MR-AP-MW-9DR	COND	Conductivity	1350.75	uS/cm	5/3/2023 11:06
MR-AP-MW-9DR	DO	DO	0.16	mg/L	5/3/2023 11:06
MR-AP-MW-9DR	DTW	Depth to Water Detail	82.73	ft	5/3/2023 11:06
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	-83.14	mv	5/3/2023 11:06
MR-AP-MW-9DR	PH	pH	6.57	SU	5/3/2023 11:06
MR-AP-MW-9DR	TEMP	Temperature	17.2	C	5/3/2023 11:06
MR-AP-MW-9DR	TURB	Turbidity	2.76	NTU	5/3/2023 11:06
MR-AP-MW-9DR	COND	Conductivity	1358.28	uS/cm	5/3/2023 11:11
MR-AP-MW-9DR	DO	DO	0.15	mg/L	5/3/2023 11:11
MR-AP-MW-9DR	DTW	Depth to Water Detail	83.03	ft	5/3/2023 11:11
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	-83.64	mv	5/3/2023 11:11
MR-AP-MW-9DR	PH	pH	6.54	SU	5/3/2023 11:11
MR-AP-MW-9DR	TEMP	Temperature	17.17	C	5/3/2023 11:11
MR-AP-MW-9DR	TURB	Turbidity	2.71	NTU	5/3/2023 11:11
MR-AP-MW-9DR	COND	Conductivity	1366.28	uS/cm	5/3/2023 11:16
MR-AP-MW-9DR	DO	DO	0.15	mg/L	5/3/2023 11:16
MR-AP-MW-9DR	DTW	Depth to Water Detail	83.3	ft	5/3/2023 11:16
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	-83.97	mv	5/3/2023 11:16
MR-AP-MW-9DR	PH	pH	6.52	SU	5/3/2023 11:16
MR-AP-MW-9DR	TEMP	Temperature	17.12	C	5/3/2023 11:16
MR-AP-MW-9DR	TURB	Turbidity	2.8	NTU	5/3/2023 11:16
MR-AP-MW-9DR	COND	Conductivity	1391.66	uS/cm	5/3/2023 11:21
MR-AP-MW-9DR	DO	DO	0.16	mg/L	5/3/2023 11:21
MR-AP-MW-9DR	DTW	Depth to Water Detail	83.45	ft	5/3/2023 11:21
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	-84.92	mv	5/3/2023 11:21
MR-AP-MW-9DR	PH	pH	6.5	SU	5/3/2023 11:21
MR-AP-MW-9DR	TEMP	Temperature	17.41	C	5/3/2023 11:21
MR-AP-MW-9DR	TURB	Turbidity	2.75	NTU	5/3/2023 11:21
MR-AP-MW-9DR	COND	Conductivity	1392.67	uS/cm	5/3/2023 11:26
MR-AP-MW-9DR	DO	DO	0.17	mg/L	5/3/2023 11:26
MR-AP-MW-9DR	DTW	Depth to Water Detail	83.62	ft	5/3/2023 11:26
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	-84.96	mv	5/3/2023 11:26
MR-AP-MW-9DR	PH	pH	6.48	SU	5/3/2023 11:26
MR-AP-MW-9DR	TEMP	Temperature	17.34	C	5/3/2023 11:26
MR-AP-MW-9DR	TURB	Turbidity	2.56	NTU	5/3/2023 11:26
MR-AP-MW-9DR	COND	Conductivity	1396.25	uS/cm	5/3/2023 11:31
MR-AP-MW-9DR	DO	DO	0.18	mg/L	5/3/2023 11:31
MR-AP-MW-9DR	DTW	Depth to Water Detail	83.73	ft	5/3/2023 11:31
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	-84.51	mv	5/3/2023 11:31
MR-AP-MW-9DR	PH	pH	6.46	SU	5/3/2023 11:31
MR-AP-MW-9DR	SULFIDE	Sulfide	0	mg/L	5/3/2023 11:31
MR-AP-MW-9DR	TEMP	Temperature	17.5	C	5/3/2023 11:31
MR-AP-MW-9DR	TURB	Turbidity	2.51	NTU	5/3/2023 11:31
MR-AP-MW-9SR	COND	Conductivity	1002.5	uS/cm	5/3/2023 12:19
MR-AP-MW-9SR	DO	DO	0.61	mg/L	5/3/2023 12:19
MR-AP-MW-9SR	DTW	Depth to Water Detail	78.42	ft	5/3/2023 12:19
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	42.58	mv	5/3/2023 12:19

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-9SR	PH	pH	6.47	SU	5/3/2023 12:19
MR-AP-MW-9SR	TEMP	Temperature	17.94	C	5/3/2023 12:19
MR-AP-MW-9SR	TURB	Turbidity	6.69	NTU	5/3/2023 12:19
MR-AP-MW-9SR	COND	Conductivity	991.54	uS/cm	5/3/2023 12:24
MR-AP-MW-9SR	DO	DO	0.4	mg/L	5/3/2023 12:24
MR-AP-MW-9SR	DTW	Depth to Water Detail	78.63	ft	5/3/2023 12:24
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	25.54	mv	5/3/2023 12:24
MR-AP-MW-9SR	PH	pH	6.4	SU	5/3/2023 12:24
MR-AP-MW-9SR	TEMP	Temperature	17.9	C	5/3/2023 12:24
MR-AP-MW-9SR	TURB	Turbidity	5.48	NTU	5/3/2023 12:24
MR-AP-MW-9SR	COND	Conductivity	982.02	uS/cm	5/3/2023 12:29
MR-AP-MW-9SR	DO	DO	0.3	mg/L	5/3/2023 12:29
MR-AP-MW-9SR	DTW	Depth to Water Detail	78.86	ft	5/3/2023 12:29
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	19.09	mv	5/3/2023 12:29
MR-AP-MW-9SR	PH	pH	6.35	SU	5/3/2023 12:29
MR-AP-MW-9SR	TEMP	Temperature	18.02	C	5/3/2023 12:29
MR-AP-MW-9SR	TURB	Turbidity	4.44	NTU	5/3/2023 12:29
MR-AP-MW-9SR	COND	Conductivity	972.92	uS/cm	5/3/2023 12:34
MR-AP-MW-9SR	DO	DO	0.24	mg/L	5/3/2023 12:34
MR-AP-MW-9SR	DTW	Depth to Water Detail	79.03	ft	5/3/2023 12:34
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	13.02	mv	5/3/2023 12:34
MR-AP-MW-9SR	PH	pH	6.35	SU	5/3/2023 12:34
MR-AP-MW-9SR	TEMP	Temperature	17.99	C	5/3/2023 12:34
MR-AP-MW-9SR	TURB	Turbidity	4.14	NTU	5/3/2023 12:34
MR-AP-MW-9SR	COND	Conductivity	967.63	uS/cm	5/3/2023 12:39
MR-AP-MW-9SR	DO	DO	0.2	mg/L	5/3/2023 12:39
MR-AP-MW-9SR	DTW	Depth to Water Detail	79.18	ft	5/3/2023 12:39
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	9.44	mv	5/3/2023 12:39
MR-AP-MW-9SR	PH	pH	6.35	SU	5/3/2023 12:39
MR-AP-MW-9SR	TEMP	Temperature	17.94	C	5/3/2023 12:39
MR-AP-MW-9SR	TURB	Turbidity	3.89	NTU	5/3/2023 12:39
MR-AP-MW-9SR	COND	Conductivity	962.75	uS/cm	5/3/2023 12:44
MR-AP-MW-9SR	DO	DO	0.18	mg/L	5/3/2023 12:44
MR-AP-MW-9SR	DTW	Depth to Water Detail	79.28	ft	5/3/2023 12:44
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	5.7	mv	5/3/2023 12:44
MR-AP-MW-9SR	PH	pH	6.34	SU	5/3/2023 12:44
MR-AP-MW-9SR	SULFIDE	Sulfide	0	mg/L	5/3/2023 12:44
MR-AP-MW-9SR	TEMP	Temperature	18.47	C	5/3/2023 12:44
MR-AP-MW-9SR	TURB	Turbidity	3.6	NTU	5/3/2023 12:44
MR-AP-MW-10	COND	Conductivity	2504.42	uS/cm	5/3/2023 7:54
MR-AP-MW-10	DO	DO	0.94	mg/L	5/3/2023 7:54
MR-AP-MW-10	DTW	Depth to Water Detail	151.93	ft	5/3/2023 7:54
MR-AP-MW-10	ORP	Oxidation Reduction Potention	-95.32	mv	5/3/2023 7:54
MR-AP-MW-10	PH	pH	7.08	SU	5/3/2023 7:54
MR-AP-MW-10	TEMP	Temperature	15.45	C	5/3/2023 7:54
MR-AP-MW-10	TURB	Turbidity	11.4	NTU	5/3/2023 7:54
MR-AP-MW-10	COND	Conductivity	2464.63	uS/cm	5/3/2023 7:59
MR-AP-MW-10	DO	DO	0.36	mg/L	5/3/2023 7:59
MR-AP-MW-10	DTW	Depth to Water Detail	151.93	ft	5/3/2023 7:59
MR-AP-MW-10	ORP	Oxidation Reduction Potention	-100.18	mv	5/3/2023 7:59
MR-AP-MW-10	PH	pH	7.1	SU	5/3/2023 7:59
MR-AP-MW-10	TEMP	Temperature	15.66	C	5/3/2023 7:59
MR-AP-MW-10	TURB	Turbidity	9.48	NTU	5/3/2023 7:59
MR-AP-MW-10	COND	Conductivity	2489.77	uS/cm	5/3/2023 8:04
MR-AP-MW-10	DO	DO	0.29	mg/L	5/3/2023 8:04
MR-AP-MW-10	DTW	Depth to Water Detail	151.93	ft	5/3/2023 8:04
MR-AP-MW-10	ORP	Oxidation Reduction Potention	-102.69	mv	5/3/2023 8:04
MR-AP-MW-10	PH	pH	7.11	SU	5/3/2023 8:04
MR-AP-MW-10	TEMP	Temperature	15.77	C	5/3/2023 8:04
MR-AP-MW-10	TURB	Turbidity	8.11	NTU	5/3/2023 8:04
MR-AP-MW-10	COND	Conductivity	2517.7	uS/cm	5/3/2023 8:09
MR-AP-MW-10	DO	DO	0.28	mg/L	5/3/2023 8:09
MR-AP-MW-10	DTW	Depth to Water Detail	151.93	ft	5/3/2023 8:09
MR-AP-MW-10	ORP	Oxidation Reduction Potention	-104.77	mv	5/3/2023 8:09
MR-AP-MW-10	PH	pH	7.13	SU	5/3/2023 8:09
MR-AP-MW-10	TEMP	Temperature	15.64	C	5/3/2023 8:09
MR-AP-MW-10	TURB	Turbidity	5.56	NTU	5/3/2023 8:09
MR-AP-MW-10	COND	Conductivity	2561.46	uS/cm	5/3/2023 8:14
MR-AP-MW-10	DO	DO	0.27	mg/L	5/3/2023 8:14
MR-AP-MW-10	DTW	Depth to Water Detail	151.93	ft	5/3/2023 8:14
MR-AP-MW-10	ORP	Oxidation Reduction Potention	-107.75	mv	5/3/2023 8:14
MR-AP-MW-10	PH	pH	7.15	SU	5/3/2023 8:14
MR-AP-MW-10	SULFIDE	Sulfide	0	mg/L	5/3/2023 8:14
MR-AP-MW-10	TEMP	Temperature	15.77	C	5/3/2023 8:14

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-10	TURB	Turbidity	4.7	NTU	5/3/2023 8:14
MR-AP-MW-12	COND	Conductivity	1498.83	uS/cm	5/3/2023 9:28
MR-AP-MW-12	DO	DO	1.36	mg/L	5/3/2023 9:28
MR-AP-MW-12	DTW	Depth to Water Detail	110.43	ft	5/3/2023 9:28
MR-AP-MW-12	ORP	Oxidation Reduction Potention	49.2	mv	5/3/2023 9:28
MR-AP-MW-12	PH	pH	6.74	SU	5/3/2023 9:28
MR-AP-MW-12	TEMP	Temperature	19.32	C	5/3/2023 9:28
MR-AP-MW-12	TURB	Turbidity	5.98	NTU	5/3/2023 9:28
MR-AP-MW-12	COND	Conductivity	1476.75	uS/cm	5/3/2023 9:33
MR-AP-MW-12	DO	DO	0.63	mg/L	5/3/2023 9:33
MR-AP-MW-12	DTW	Depth to Water Detail	110.98	ft	5/3/2023 9:33
MR-AP-MW-12	ORP	Oxidation Reduction Potention	27.45	mv	5/3/2023 9:33
MR-AP-MW-12	PH	pH	6.73	SU	5/3/2023 9:33
MR-AP-MW-12	TEMP	Temperature	19.43	C	5/3/2023 9:33
MR-AP-MW-12	TURB	Turbidity	5.22	NTU	5/3/2023 9:33
MR-AP-MW-12	COND	Conductivity	1478.31	uS/cm	5/3/2023 9:38
MR-AP-MW-12	DO	DO	0.47	mg/L	5/3/2023 9:38
MR-AP-MW-12	DTW	Depth to Water Detail	111.34	ft	5/3/2023 9:38
MR-AP-MW-12	ORP	Oxidation Reduction Potention	10.31	mv	5/3/2023 9:38
MR-AP-MW-12	PH	pH	6.74	SU	5/3/2023 9:38
MR-AP-MW-12	TEMP	Temperature	19.63	C	5/3/2023 9:38
MR-AP-MW-12	TURB	Turbidity	4.39	NTU	5/3/2023 9:38
MR-AP-MW-12	COND	Conductivity	1480.5	uS/cm	5/3/2023 9:43
MR-AP-MW-12	DO	DO	0.44	mg/L	5/3/2023 9:43
MR-AP-MW-12	DTW	Depth to Water Detail	111.61	ft	5/3/2023 9:43
MR-AP-MW-12	ORP	Oxidation Reduction Potention	2.11	mv	5/3/2023 9:43
MR-AP-MW-12	PH	pH	6.74	SU	5/3/2023 9:43
MR-AP-MW-12	TEMP	Temperature	19.77	C	5/3/2023 9:43
MR-AP-MW-12	TURB	Turbidity	4.07	NTU	5/3/2023 9:43
MR-AP-MW-12	COND	Conductivity	1483.95	uS/cm	5/3/2023 9:48
MR-AP-MW-12	DO	DO	0.36	mg/L	5/3/2023 9:48
MR-AP-MW-12	DTW	Depth to Water Detail	111.78	ft	5/3/2023 9:48
MR-AP-MW-12	ORP	Oxidation Reduction Potention	-6.11	mv	5/3/2023 9:48
MR-AP-MW-12	PH	pH	6.74	SU	5/3/2023 9:48
MR-AP-MW-12	TEMP	Temperature	19.73	C	5/3/2023 9:48
MR-AP-MW-12	TURB	Turbidity	3.89	NTU	5/3/2023 9:48
MR-AP-MW-12	COND	Conductivity	1487.13	uS/cm	5/3/2023 9:53
MR-AP-MW-12	DO	DO	0.35	mg/L	5/3/2023 9:53
MR-AP-MW-12	DTW	Depth to Water Detail	111.92	ft	5/3/2023 9:53
MR-AP-MW-12	ORP	Oxidation Reduction Potention	-10.91	mv	5/3/2023 9:53
MR-AP-MW-12	PH	pH	6.74	SU	5/3/2023 9:53
MR-AP-MW-12	TEMP	Temperature	19.75	C	5/3/2023 9:53
MR-AP-MW-12	TURB	Turbidity	3.95	NTU	5/3/2023 9:53
MR-AP-MW-12	COND	Conductivity	1489.23	uS/cm	5/3/2023 9:58
MR-AP-MW-12	DO	DO	0.34	mg/L	5/3/2023 9:58
MR-AP-MW-12	DTW	Depth to Water Detail	111.97	ft	5/3/2023 9:58
MR-AP-MW-12	ORP	Oxidation Reduction Potention	-14.34	mv	5/3/2023 9:58
MR-AP-MW-12	PH	pH	6.74	SU	5/3/2023 9:58
MR-AP-MW-12	SULFIDE	Sulfide	0	mg/L	5/3/2023 9:58
MR-AP-MW-12	TEMP	Temperature	19.74	C	5/3/2023 9:58
MR-AP-MW-12	TURB	Turbidity	3.9	NTU	5/3/2023 9:58
MR-AP-MW-221	COND	Conductivity	769.33	uS/cm	5/3/2023 15:05
MR-AP-MW-221	DO	DO	0.09	mg/L	5/3/2023 15:05
MR-AP-MW-221	DTW	Depth to Water Detail	28.71	ft	5/3/2023 15:05
MR-AP-MW-221	ORP	Oxidation Reduction Potention	-192.51	mv	5/3/2023 15:05
MR-AP-MW-221	PH	pH	8.1	SU	5/3/2023 15:05
MR-AP-MW-221	TEMP	Temperature	18.31	C	5/3/2023 15:05
MR-AP-MW-221	TURB	Turbidity	2.83	NTU	5/3/2023 15:05
MR-AP-MW-221	COND	Conductivity	649.14	uS/cm	5/3/2023 15:10
MR-AP-MW-221	DO	DO	0.07	mg/L	5/3/2023 15:10
MR-AP-MW-221	DTW	Depth to Water Detail	28.82	ft	5/3/2023 15:10
MR-AP-MW-221	ORP	Oxidation Reduction Potention	-206.19	mv	5/3/2023 15:10
MR-AP-MW-221	PH	pH	8.26	SU	5/3/2023 15:10
MR-AP-MW-221	TEMP	Temperature	18.37	C	5/3/2023 15:10
MR-AP-MW-221	TURB	Turbidity	2.84	NTU	5/3/2023 15:10
MR-AP-MW-221	COND	Conductivity	622.18	uS/cm	5/3/2023 15:15
MR-AP-MW-221	DO	DO	0.05	mg/L	5/3/2023 15:15
MR-AP-MW-221	DTW	Depth to Water Detail	28.93	ft	5/3/2023 15:15
MR-AP-MW-221	ORP	Oxidation Reduction Potention	-209.79	mv	5/3/2023 15:15
MR-AP-MW-221	PH	pH	8.31	SU	5/3/2023 15:15
MR-AP-MW-221	TEMP	Temperature	18.26	C	5/3/2023 15:15
MR-AP-MW-221	TURB	Turbidity	3.11	NTU	5/3/2023 15:15
MR-AP-MW-221	COND	Conductivity	604.72	uS/cm	5/3/2023 15:20
MR-AP-MW-221	DO	DO	0.05	mg/L	5/3/2023 15:20

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-22I	DTW	Depth to Water Detail	28.98	ft	5/3/2023 15:20
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	-211.87	mv	5/3/2023 15:20
MR-AP-MW-22I	PH	pH	8.33	SU	5/3/2023 15:20
MR-AP-MW-22I	TEMP	Temperature	18.21	C	5/3/2023 15:20
MR-AP-MW-22I	TURB	Turbidity	2.95	NTU	5/3/2023 15:20
MR-AP-MW-22I	COND	Conductivity	594.71	uS/cm	5/3/2023 15:25
MR-AP-MW-22I	DO	DO	0	mg/L	5/3/2023 15:25
MR-AP-MW-22I	DTW	Depth to Water Detail	29.03	ft	5/3/2023 15:25
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	-213.9	mv	5/3/2023 15:25
MR-AP-MW-22I	PH	pH	8.35	SU	5/3/2023 15:25
MR-AP-MW-22I	SULFIDE	Sulfide	1	mg/L	5/3/2023 15:25
MR-AP-MW-22I	TEMP	Temperature	18.26	C	5/3/2023 15:25
MR-AP-MW-22I	TURB	Turbidity	2.89	NTU	5/3/2023 15:25
MR-AP-MW-15	COND	Conductivity	786.15	uS/cm	4/19/2023 11:27
MR-AP-MW-15	DO	DO	0.52	mg/L	4/19/2023 11:27
MR-AP-MW-15	DTW	Depth to Water Detail	18.08	ft	4/19/2023 11:27
MR-AP-MW-15	ORP	Oxidation Reduction Potention	24.02	mv	4/19/2023 11:27
MR-AP-MW-15	PH	pH	6.17	SU	4/19/2023 11:27
MR-AP-MW-15	TEMP	Temperature	19.51	C	4/19/2023 11:27
MR-AP-MW-15	TURB	Turbidity	9.04	NTU	4/19/2023 11:27
MR-AP-MW-15	COND	Conductivity	793.79	uS/cm	4/19/2023 11:32
MR-AP-MW-15	DO	DO	0.42	mg/L	4/19/2023 11:32
MR-AP-MW-15	DTW	Depth to Water Detail	18.16	ft	4/19/2023 11:32
MR-AP-MW-15	ORP	Oxidation Reduction Potention	19.44	mv	4/19/2023 11:32
MR-AP-MW-15	PH	pH	6.21	SU	4/19/2023 11:32
MR-AP-MW-15	TEMP	Temperature	19.62	C	4/19/2023 11:32
MR-AP-MW-15	TURB	Turbidity	8.78	NTU	4/19/2023 11:32
MR-AP-MW-15	COND	Conductivity	792.31	uS/cm	4/19/2023 11:37
MR-AP-MW-15	DO	DO	0.35	mg/L	4/19/2023 11:37
MR-AP-MW-15	DTW	Depth to Water Detail	18.23	ft	4/19/2023 11:37
MR-AP-MW-15	ORP	Oxidation Reduction Potention	14.39	mv	4/19/2023 11:37
MR-AP-MW-15	PH	pH	6.24	SU	4/19/2023 11:37
MR-AP-MW-15	TEMP	Temperature	19.68	C	4/19/2023 11:37
MR-AP-MW-15	TURB	Turbidity	6.51	NTU	4/19/2023 11:37
MR-AP-MW-15	COND	Conductivity	797.45	uS/cm	4/19/2023 11:42
MR-AP-MW-15	DO	DO	0.3	mg/L	4/19/2023 11:42
MR-AP-MW-15	DTW	Depth to Water Detail	18.28	ft	4/19/2023 11:42
MR-AP-MW-15	ORP	Oxidation Reduction Potention	10.07	mv	4/19/2023 11:42
MR-AP-MW-15	PH	pH	6.27	SU	4/19/2023 11:42
MR-AP-MW-15	TEMP	Temperature	19.73	C	4/19/2023 11:42
MR-AP-MW-15	TURB	Turbidity	6.13	NTU	4/19/2023 11:42
MR-AP-MW-15	COND	Conductivity	792.95	uS/cm	4/19/2023 11:47
MR-AP-MW-15	DO	DO	0.26	mg/L	4/19/2023 11:47
MR-AP-MW-15	DTW	Depth to Water Detail	18.34	ft	4/19/2023 11:47
MR-AP-MW-15	ORP	Oxidation Reduction Potention	5.21	mv	4/19/2023 11:47
MR-AP-MW-15	PH	pH	6.3	SU	4/19/2023 11:47
MR-AP-MW-15	TEMP	Temperature	19.74	C	4/19/2023 11:47
MR-AP-MW-15	TURB	Turbidity	5.72	NTU	4/19/2023 11:47
MR-AP-MW-15	COND	Conductivity	777.28	uS/cm	4/19/2023 11:52
MR-AP-MW-15	DO	DO	0.24	mg/L	4/19/2023 11:52
MR-AP-MW-15	DTW	Depth to Water Detail	18.4	ft	4/19/2023 11:52
MR-AP-MW-15	ORP	Oxidation Reduction Potention	0.24	mv	4/19/2023 11:52
MR-AP-MW-15	PH	pH	6.33	SU	4/19/2023 11:52
MR-AP-MW-15	SULFIDE	Sulfide	0	mg/L	4/19/2023 11:52
MR-AP-MW-15	TEMP	Temperature	19.78	C	4/19/2023 11:52
MR-AP-MW-15	TURB	Turbidity	4.59	NTU	4/19/2023 11:52
MR-AP-MW-16	COND	Conductivity	1114.02	uS/cm	4/19/2023 9:45
MR-AP-MW-16	DO	DO	0.36	mg/L	4/19/2023 9:45
MR-AP-MW-16	DTW	Depth to Water Detail	32.39	ft	4/19/2023 9:45
MR-AP-MW-16	ORP	Oxidation Reduction Potention	105.47	mv	4/19/2023 9:45
MR-AP-MW-16	PH	pH	6.44	SU	4/19/2023 9:45
MR-AP-MW-16	TEMP	Temperature	19.25	C	4/19/2023 9:45
MR-AP-MW-16	TURB	Turbidity	1.45	NTU	4/19/2023 9:45
MR-AP-MW-16	COND	Conductivity	1101.99	uS/cm	4/19/2023 9:50
MR-AP-MW-16	DO	DO	0.39	mg/L	4/19/2023 9:50
MR-AP-MW-16	DTW	Depth to Water Detail	32.39	ft	4/19/2023 9:50
MR-AP-MW-16	ORP	Oxidation Reduction Potention	104.05	mv	4/19/2023 9:50
MR-AP-MW-16	PH	pH	6.38	SU	4/19/2023 9:50
MR-AP-MW-16	TEMP	Temperature	19.31	C	4/19/2023 9:50
MR-AP-MW-16	TURB	Turbidity	0.87	NTU	4/19/2023 9:50
MR-AP-MW-16	COND	Conductivity	1100.52	uS/cm	4/19/2023 9:55
MR-AP-MW-16	DO	DO	0.43	mg/L	4/19/2023 9:55
MR-AP-MW-16	DTW	Depth to Water Detail	32.39	ft	4/19/2023 9:55
MR-AP-MW-16	ORP	Oxidation Reduction Potention	105.39	mv	4/19/2023 9:55

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-16	PH	pH	6.33	SU	4/19/2023 9:55
MR-AP-MW-16	TEMP	Temperature	19.4	C	4/19/2023 9:55
MR-AP-MW-16	TURB	Turbidity	0.81	NTU	4/19/2023 9:55
MR-AP-MW-16	COND	Conductivity	1102.49	uS/cm	4/19/2023 10:00
MR-AP-MW-16	DO	DO	0.46	mg/L	4/19/2023 10:00
MR-AP-MW-16	DTW	Depth to Water Detail	32.39	ft	4/19/2023 10:00
MR-AP-MW-16	ORP	Oxidation Reduction Potential	104.07	mv	4/19/2023 10:00
MR-AP-MW-16	PH	pH	6.35	SU	4/19/2023 10:00
MR-AP-MW-16	SULFIDE	Sulfide	0	mg/L	4/19/2023 10:00
MR-AP-MW-16	TEMP	Temperature	19.31	C	4/19/2023 10:00
MR-AP-MW-16	TURB	Turbidity	0.74	NTU	4/19/2023 10:00
MR-AP-MW-28H	COND	Conductivity	459.55	uS/cm	4/19/2023 13:01
MR-AP-MW-28H	DO	DO	1.44	mg/L	4/19/2023 13:01
MR-AP-MW-28H	DTW	Depth to Water Detail	88.52	ft	4/19/2023 13:01
MR-AP-MW-28H	ORP	Oxidation Reduction Potential	17.32	mv	4/19/2023 13:01
MR-AP-MW-28H	PH	pH	6.55	SU	4/19/2023 13:01
MR-AP-MW-28H	TEMP	Temperature	22.39	C	4/19/2023 13:01
MR-AP-MW-28H	TURB	Turbidity	27.7	NTU	4/19/2023 13:01
MR-AP-MW-28H	COND	Conductivity	473.37	uS/cm	4/19/2023 13:06
MR-AP-MW-28H	DO	DO	1.19	mg/L	4/19/2023 13:06
MR-AP-MW-28H	DTW	Depth to Water Detail	89.02	ft	4/19/2023 13:06
MR-AP-MW-28H	ORP	Oxidation Reduction Potential	11.96	mv	4/19/2023 13:06
MR-AP-MW-28H	PH	pH	6.57	SU	4/19/2023 13:06
MR-AP-MW-28H	TEMP	Temperature	22.07	C	4/19/2023 13:06
MR-AP-MW-28H	TURB	Turbidity	17.1	NTU	4/19/2023 13:06
MR-AP-MW-28H	COND	Conductivity	513.94	uS/cm	4/19/2023 13:11
MR-AP-MW-28H	DO	DO	1.11	mg/L	4/19/2023 13:11
MR-AP-MW-28H	DTW	Depth to Water Detail	89.44	ft	4/19/2023 13:11
MR-AP-MW-28H	ORP	Oxidation Reduction Potential	6.99	mv	4/19/2023 13:11
MR-AP-MW-28H	PH	pH	6.61	SU	4/19/2023 13:11
MR-AP-MW-28H	TEMP	Temperature	21.83	C	4/19/2023 13:11
MR-AP-MW-28H	TURB	Turbidity	12.88	NTU	4/19/2023 13:11
MR-AP-MW-28H	COND	Conductivity	465.43	uS/cm	4/19/2023 13:16
MR-AP-MW-28H	DO	DO	1.06	mg/L	4/19/2023 13:16
MR-AP-MW-28H	DTW	Depth to Water Detail	90.02	ft	4/19/2023 13:16
MR-AP-MW-28H	ORP	Oxidation Reduction Potential	2.06	mv	4/19/2023 13:16
MR-AP-MW-28H	PH	pH	6.65	SU	4/19/2023 13:16
MR-AP-MW-28H	TEMP	Temperature	22.01	C	4/19/2023 13:16
MR-AP-MW-28H	TURB	Turbidity	8.62	NTU	4/19/2023 13:16
MR-AP-MW-28H	COND	Conductivity	600.67	uS/cm	4/19/2023 13:21
MR-AP-MW-28H	DO	DO	0.39	mg/L	4/19/2023 13:21
MR-AP-MW-28H	DTW	Depth to Water Detail	91.65	ft	4/19/2023 13:21
MR-AP-MW-28H	ORP	Oxidation Reduction Potential	0.49	mv	4/19/2023 13:21
MR-AP-MW-28H	PH	pH	6.67	SU	4/19/2023 13:21
MR-AP-MW-28H	TEMP	Temperature	20.17	C	4/19/2023 13:21
MR-AP-MW-28H	TURB	Turbidity	8.42	NTU	4/19/2023 13:21
MR-AP-MW-28H	COND	Conductivity	421.61	uS/cm	4/19/2023 13:26
MR-AP-MW-28H	DO	DO	0.4	mg/L	4/19/2023 13:26
MR-AP-MW-28H	DTW	Depth to Water Detail	92.36	ft	4/19/2023 13:26
MR-AP-MW-28H	ORP	Oxidation Reduction Potential	0.57	mv	4/19/2023 13:26
MR-AP-MW-28H	PH	pH	6.64	SU	4/19/2023 13:26
MR-AP-MW-28H	TEMP	Temperature	20.46	C	4/19/2023 13:26
MR-AP-MW-28H	TURB	Turbidity	5.91	NTU	4/19/2023 13:26
MR-AP-MW-28H	COND	Conductivity	469.14	uS/cm	4/19/2023 13:31
MR-AP-MW-28H	DO	DO	0.92	mg/L	4/19/2023 13:31
MR-AP-MW-28H	DTW	Depth to Water Detail	92.84	ft	4/19/2023 13:31
MR-AP-MW-28H	ORP	Oxidation Reduction Potential	-5.02	mv	4/19/2023 13:31
MR-AP-MW-28H	PH	pH	6.69	SU	4/19/2023 13:31
MR-AP-MW-28H	TEMP	Temperature	22.05	C	4/19/2023 13:31
MR-AP-MW-28H	TURB	Turbidity	9.36	NTU	4/19/2023 13:31
MR-AP-MW-28H	COND	Conductivity	389.95	uS/cm	4/19/2023 13:36
MR-AP-MW-28H	DO	DO	1	mg/L	4/19/2023 13:36
MR-AP-MW-28H	DTW	Depth to Water Detail	92.92	ft	4/19/2023 13:36
MR-AP-MW-28H	ORP	Oxidation Reduction Potential	-8.97	mv	4/19/2023 13:36
MR-AP-MW-28H	PH	pH	6.75	SU	4/19/2023 13:36
MR-AP-MW-28H	TEMP	Temperature	22.2	C	4/19/2023 13:36
MR-AP-MW-28H	TURB	Turbidity	2.79	NTU	4/19/2023 13:36
MR-AP-MW-28H	COND	Conductivity	392.12	uS/cm	4/19/2023 13:41
MR-AP-MW-28H	DO	DO	1.05	mg/L	4/19/2023 13:41
MR-AP-MW-28H	DTW	Depth to Water Detail	93.03	ft	4/19/2023 13:41
MR-AP-MW-28H	ORP	Oxidation Reduction Potential	-10.68	mv	4/19/2023 13:41
MR-AP-MW-28H	PH	pH	6.77	SU	4/19/2023 13:41
MR-AP-MW-28H	TEMP	Temperature	22.51	C	4/19/2023 13:41
MR-AP-MW-28H	TURB	Turbidity	3.02	NTU	4/19/2023 13:41

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-28H	COND	Conductivity	417.27	uS/cm	4/19/2023 13:46
MR-AP-MW-28H	DO	DO	1.05	mg/L	4/19/2023 13:46
MR-AP-MW-28H	DTW	Depth to Water Detail	93.12	ft	4/19/2023 13:46
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	-12.04	mv	4/19/2023 13:46
MR-AP-MW-28H	PH	pH	6.79	SU	4/19/2023 13:46
MR-AP-MW-28H	TEMP	Temperature	22.61	C	4/19/2023 13:46
MR-AP-MW-28H	TURB	Turbidity	3.18	NTU	4/19/2023 13:46
MR-AP-MW-28H	COND	Conductivity	493.4	uS/cm	4/19/2023 13:51
MR-AP-MW-28H	DO	DO	1.12	mg/L	4/19/2023 13:51
MR-AP-MW-28H	DTW	Depth to Water Detail	93.39	ft	4/19/2023 13:51
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	-12.34	mv	4/19/2023 13:51
MR-AP-MW-28H	PH	pH	6.79	SU	4/19/2023 13:51
MR-AP-MW-28H	TEMP	Temperature	22.41	C	4/19/2023 13:51
MR-AP-MW-28H	TURB	Turbidity	2.67	NTU	4/19/2023 13:51
MR-AP-MW-28H	COND	Conductivity	372.53	uS/cm	4/19/2023 13:56
MR-AP-MW-28H	DO	DO	1.16	mg/L	4/19/2023 13:56
MR-AP-MW-28H	DTW	Depth to Water Detail	93.52	ft	4/19/2023 13:56
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	-12.41	mv	4/19/2023 13:56
MR-AP-MW-28H	PH	pH	6.79	SU	4/19/2023 13:56
MR-AP-MW-28H	TEMP	Temperature	22.3	C	4/19/2023 13:56
MR-AP-MW-28H	TURB	Turbidity	2.87	NTU	4/19/2023 13:56
MR-AP-MW-28H	COND	Conductivity	356.04	uS/cm	4/19/2023 14:01
MR-AP-MW-28H	DO	DO	1.15	mg/L	4/19/2023 14:01
MR-AP-MW-28H	DTW	Depth to Water Detail	93.68	ft	4/19/2023 14:01
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	-12.53	mv	4/19/2023 14:01
MR-AP-MW-28H	PH	pH	6.8	SU	4/19/2023 14:01
MR-AP-MW-28H	TEMP	Temperature	22.38	C	4/19/2023 14:01
MR-AP-MW-28H	TURB	Turbidity	2.35	NTU	4/19/2023 14:01
MR-AP-MW-28H	COND	Conductivity	447.55	uS/cm	4/19/2023 14:06
MR-AP-MW-28H	DO	DO	1.13	mg/L	4/19/2023 14:06
MR-AP-MW-28H	DTW	Depth to Water Detail	93.79	ft	4/19/2023 14:06
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	-13.41	mv	4/19/2023 14:06
MR-AP-MW-28H	PH	pH	6.82	SU	4/19/2023 14:06
MR-AP-MW-28H	TEMP	Temperature	22.57	C	4/19/2023 14:06
MR-AP-MW-28H	TURB	Turbidity	3.04	NTU	4/19/2023 14:06
MR-AP-MW-28H	COND	Conductivity	519.57	uS/cm	4/19/2023 14:11
MR-AP-MW-28H	DO	DO	1.17	mg/L	4/19/2023 14:11
MR-AP-MW-28H	DTW	Depth to Water Detail	93.83	ft	4/19/2023 14:11
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	-12.19	mv	4/19/2023 14:11
MR-AP-MW-28H	PH	pH	6.81	SU	4/19/2023 14:11
MR-AP-MW-28H	TEMP	Temperature	22.4	C	4/19/2023 14:11
MR-AP-MW-28H	TURB	Turbidity	2.59	NTU	4/19/2023 14:11
MR-AP-MW-28H	COND	Conductivity	520.99	uS/cm	4/19/2023 14:16
MR-AP-MW-28H	DO	DO	1.15	mg/L	4/19/2023 14:16
MR-AP-MW-28H	DTW	Depth to Water Detail	93.86	ft	4/19/2023 14:16
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	-10.86	mv	4/19/2023 14:16
MR-AP-MW-28H	PH	pH	6.8	SU	4/19/2023 14:16
MR-AP-MW-28H	TEMP	Temperature	22.57	C	4/19/2023 14:16
MR-AP-MW-28H	TURB	Turbidity	2.96	NTU	4/19/2023 14:16
MR-AP-MW-28H	COND	Conductivity	518.24	uS/cm	4/19/2023 14:21
MR-AP-MW-28H	DO	DO	1.15	mg/L	4/19/2023 14:21
MR-AP-MW-28H	DTW	Depth to Water Detail	93.88	ft	4/19/2023 14:21
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	-10.12	mv	4/19/2023 14:21
MR-AP-MW-28H	PH	pH	6.81	SU	4/19/2023 14:21
MR-AP-MW-28H	SULFIDE	Sulfide	0	mg/L	4/19/2023 14:21
MR-AP-MW-28H	TEMP	Temperature	22.45	C	4/19/2023 14:21
MR-AP-MW-28H	TURB	Turbidity	2.75	NTU	4/19/2023 14:21
MR-AP-MW-30H	COND	Conductivity	1693.69	uS/cm	4/26/2023 10:06
MR-AP-MW-30H	DO	DO	0.87	mg/L	4/26/2023 10:06
MR-AP-MW-30H	DTW	Depth to Water Detail	258.06	ft	4/26/2023 10:06
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	-28.65	mv	4/26/2023 10:06
MR-AP-MW-30H	PH	pH	6.74	SU	4/26/2023 10:06
MR-AP-MW-30H	TEMP	Temperature	17.42	C	4/26/2023 10:06
MR-AP-MW-30H	TURB	Turbidity	3.65	NTU	4/26/2023 10:06
MR-AP-MW-30H	COND	Conductivity	1685.16	uS/cm	4/26/2023 10:11
MR-AP-MW-30H	DO	DO	0.73	mg/L	4/26/2023 10:11
MR-AP-MW-30H	DTW	Depth to Water Detail	258.09	ft	4/26/2023 10:11
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	-32.53	mv	4/26/2023 10:11
MR-AP-MW-30H	PH	pH	6.75	SU	4/26/2023 10:11
MR-AP-MW-30H	TEMP	Temperature	17.35	C	4/26/2023 10:11
MR-AP-MW-30H	TURB	Turbidity	3.52	NTU	4/26/2023 10:11
MR-AP-MW-30H	COND	Conductivity	1582.54	uS/cm	4/26/2023 10:16
MR-AP-MW-30H	DO	DO	0.84	mg/L	4/26/2023 10:16
MR-AP-MW-30H	DTW	Depth to Water Detail	258.09	ft	4/26/2023 10:16

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	-37.87	mv	4/26/2023 10:16
MR-AP-MW-30H	PH	pH	6.76	SU	4/26/2023 10:16
MR-AP-MW-30H	TEMP	Temperature	17.48	C	4/26/2023 10:16
MR-AP-MW-30H	TURB	Turbidity	3.5	NTU	4/26/2023 10:16
MR-AP-MW-30H	COND	Conductivity	1579.92	uS/cm	4/26/2023 10:21
MR-AP-MW-30H	DO	DO	0.84	mg/L	4/26/2023 10:21
MR-AP-MW-30H	DTW	Depth to Water Detail	258.09	ft	4/26/2023 10:21
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	-42.69	mv	4/26/2023 10:21
MR-AP-MW-30H	PH	pH	6.77	SU	4/26/2023 10:21
MR-AP-MW-30H	TEMP	Temperature	17.37	C	4/26/2023 10:21
MR-AP-MW-30H	TURB	Turbidity	3.34	NTU	4/26/2023 10:21
MR-AP-MW-30H	COND	Conductivity	1575.26	uS/cm	4/26/2023 10:26
MR-AP-MW-30H	DO	DO	0.76	mg/L	4/26/2023 10:26
MR-AP-MW-30H	DTW	Depth to Water Detail	258.09	ft	4/26/2023 10:26
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	-39.81	mv	4/26/2023 10:26
MR-AP-MW-30H	PH	pH	6.77	SU	4/26/2023 10:26
MR-AP-MW-30H	SULFIDE	Sulfide	0	mg/L	4/26/2023 10:26
MR-AP-MW-30H	TEMP	Temperature	17.43	C	4/26/2023 10:26
MR-AP-MW-30H	TURB	Turbidity	3.39	NTU	4/26/2023 10:26
MR-AP-MW-31H	COND	Conductivity	1123.61	uS/cm	4/24/2023 14:13
MR-AP-MW-31H	DO	DO	2.07	mg/L	4/24/2023 14:13
MR-AP-MW-31H	DTW	Depth to Water Detail	246.85	ft	4/24/2023 14:13
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	5.85	mv	4/24/2023 14:13
MR-AP-MW-31H	PH	pH	6.97	SU	4/24/2023 14:13
MR-AP-MW-31H	TEMP	Temperature	18.19	C	4/24/2023 14:13
MR-AP-MW-31H	TURB	Turbidity	10.18	NTU	4/24/2023 14:13
MR-AP-MW-31H	COND	Conductivity	1114.08	uS/cm	4/24/2023 14:18
MR-AP-MW-31H	DO	DO	2.01	mg/L	4/24/2023 14:18
MR-AP-MW-31H	DTW	Depth to Water Detail	247.05	ft	4/24/2023 14:18
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	-12.83	mv	4/24/2023 14:18
MR-AP-MW-31H	PH	pH	6.96	SU	4/24/2023 14:18
MR-AP-MW-31H	TEMP	Temperature	17.94	C	4/24/2023 14:18
MR-AP-MW-31H	TURB	Turbidity	9.58	NTU	4/24/2023 14:18
MR-AP-MW-31H	COND	Conductivity	1110.48	uS/cm	4/24/2023 14:23
MR-AP-MW-31H	DO	DO	2.1	mg/L	4/24/2023 14:23
MR-AP-MW-31H	DTW	Depth to Water Detail	247.18	ft	4/24/2023 14:23
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	-20.9	mv	4/24/2023 14:23
MR-AP-MW-31H	PH	pH	6.98	SU	4/24/2023 14:23
MR-AP-MW-31H	TEMP	Temperature	18.04	C	4/24/2023 14:23
MR-AP-MW-31H	TURB	Turbidity	10.75	NTU	4/24/2023 14:23
MR-AP-MW-31H	COND	Conductivity	1104.3	uS/cm	4/24/2023 14:28
MR-AP-MW-31H	DO	DO	2.09	mg/L	4/24/2023 14:28
MR-AP-MW-31H	DTW	Depth to Water Detail	247.32	ft	4/24/2023 14:28
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	-26.68	mv	4/24/2023 14:28
MR-AP-MW-31H	PH	pH	6.98	SU	4/24/2023 14:28
MR-AP-MW-31H	SULFIDE	Sulfide	0	mg/L	4/24/2023 14:28
MR-AP-MW-31H	TEMP	Temperature	18.02	C	4/24/2023 14:28
MR-AP-MW-31H	TURB	Turbidity	9.49	NTU	4/24/2023 14:28
MR-AP-MW-36HR	COND	Conductivity	3554.16	uS/cm	4/25/2023 12:14
MR-AP-MW-36HR	DO	DO	0.56	mg/L	4/25/2023 12:14
MR-AP-MW-36HR	DTW	Depth to Water Detail	247.62	ft	4/25/2023 12:14
MR-AP-MW-36HR	ORP	Oxidation Reduction Potention	-11.96	mv	4/25/2023 12:14
MR-AP-MW-36HR	PH	pH	7.19	SU	4/25/2023 12:14
MR-AP-MW-36HR	TEMP	Temperature	18.04	C	4/25/2023 12:14
MR-AP-MW-36HR	TURB	Turbidity	2.51	NTU	4/25/2023 12:14
MR-AP-MW-36HR	COND	Conductivity	3549.82	uS/cm	4/25/2023 12:19
MR-AP-MW-36HR	DO	DO	0.49	mg/L	4/25/2023 12:19
MR-AP-MW-36HR	DTW	Depth to Water Detail	248	ft	4/25/2023 12:19
MR-AP-MW-36HR	ORP	Oxidation Reduction Potention	-28.34	mv	4/25/2023 12:19
MR-AP-MW-36HR	PH	pH	7.19	SU	4/25/2023 12:19
MR-AP-MW-36HR	TEMP	Temperature	17.88	C	4/25/2023 12:19
MR-AP-MW-36HR	TURB	Turbidity	2.05	NTU	4/25/2023 12:19
MR-AP-MW-36HR	COND	Conductivity	3444.71	uS/cm	4/25/2023 12:24
MR-AP-MW-36HR	DO	DO	0.51	mg/L	4/25/2023 12:24
MR-AP-MW-36HR	DTW	Depth to Water Detail	248.5	ft	4/25/2023 12:24
MR-AP-MW-36HR	ORP	Oxidation Reduction Potention	-38.71	mv	4/25/2023 12:24
MR-AP-MW-36HR	PH	pH	7.2	SU	4/25/2023 12:24
MR-AP-MW-36HR	TEMP	Temperature	17.98	C	4/25/2023 12:24
MR-AP-MW-36HR	TURB	Turbidity	1.83	NTU	4/25/2023 12:24
MR-AP-MW-36HR	COND	Conductivity	3370.26	uS/cm	4/25/2023 12:29
MR-AP-MW-36HR	DO	DO	0.47	mg/L	4/25/2023 12:29
MR-AP-MW-36HR	DTW	Depth to Water Detail	248.55	ft	4/25/2023 12:29
MR-AP-MW-36HR	ORP	Oxidation Reduction Potention	-44.44	mv	4/25/2023 12:29
MR-AP-MW-36HR	PH	pH	7.21	SU	4/25/2023 12:29

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-36HR	TEMP	Temperature	18.09	C	4/25/2023 12:29
MR-AP-MW-36HR	TURB	Turbidity	1.91	NTU	4/25/2023 12:29
MR-AP-MW-36HR	COND	Conductivity	3350.54	uS/cm	4/25/2023 12:34
MR-AP-MW-36HR	DO	DO	0.51	mg/L	4/25/2023 12:34
MR-AP-MW-36HR	DTW	Depth to Water Detail	248.67	ft	4/25/2023 12:34
MR-AP-MW-36HR	ORP	Oxidation Reduction Potential	-49.87	mv	4/25/2023 12:34
MR-AP-MW-36HR	PH	pH	7.21	SU	4/25/2023 12:34
MR-AP-MW-36HR	TEMP	Temperature	17.85	C	4/25/2023 12:34
MR-AP-MW-36HR	TURB	Turbidity	1.53	NTU	4/25/2023 12:34
MR-AP-MW-36HR	COND	Conductivity	3301.7	uS/cm	4/25/2023 12:39
MR-AP-MW-36HR	DO	DO	0.6	mg/L	4/25/2023 12:39
MR-AP-MW-36HR	DTW	Depth to Water Detail	248.67	ft	4/25/2023 12:39
MR-AP-MW-36HR	ORP	Oxidation Reduction Potential	-53.9	mv	4/25/2023 12:39
MR-AP-MW-36HR	PH	pH	7.21	SU	4/25/2023 12:39
MR-AP-MW-36HR	TEMP	Temperature	17.73	C	4/25/2023 12:39
MR-AP-MW-36HR	TURB	Turbidity	1.68	NTU	4/25/2023 12:39
MR-AP-MW-36HR	COND	Conductivity	3215.84	uS/cm	4/25/2023 12:44
MR-AP-MW-36HR	DO	DO	0.58	mg/L	4/25/2023 12:44
MR-AP-MW-36HR	DTW	Depth to Water Detail	248.67	ft	4/25/2023 12:44
MR-AP-MW-36HR	ORP	Oxidation Reduction Potential	-56.99	mv	4/25/2023 12:44
MR-AP-MW-36HR	PH	pH	7.22	SU	4/25/2023 12:44
MR-AP-MW-36HR	SULFIDE	Sulfide	0	mg/L	4/25/2023 12:44
MR-AP-MW-36HR	TEMP	Temperature	17.88	C	4/25/2023 12:44
MR-AP-MW-36HR	TURB	Turbidity	1.47	NTU	4/25/2023 12:44
MR-AP-MW-19HA	COND	Conductivity	2026.94	uS/cm	5/1/2023 14:05
MR-AP-MW-19HA	DO	DO	0.3	mg/L	5/1/2023 14:05
MR-AP-MW-19HA	DTW	Depth to Water Detail	148.58	ft	5/1/2023 14:05
MR-AP-MW-19HA	ORP	Oxidation Reduction Potential	-229.3	mv	5/1/2023 14:05
MR-AP-MW-19HA	PH	pH	7.94	SU	5/1/2023 14:05
MR-AP-MW-19HA	TEMP	Temperature	19.11	C	5/1/2023 14:05
MR-AP-MW-19HA	TURB	Turbidity	2.08	NTU	5/1/2023 14:05
MR-AP-MW-19HA	COND	Conductivity	2070.55	uS/cm	5/1/2023 14:10
MR-AP-MW-19HA	DO	DO	0.24	mg/L	5/1/2023 14:10
MR-AP-MW-19HA	DTW	Depth to Water Detail	148.71	ft	5/1/2023 14:10
MR-AP-MW-19HA	ORP	Oxidation Reduction Potential	-247.01	mv	5/1/2023 14:10
MR-AP-MW-19HA	PH	pH	7.99	SU	5/1/2023 14:10
MR-AP-MW-19HA	TEMP	Temperature	18.97	C	5/1/2023 14:10
MR-AP-MW-19HA	TURB	Turbidity	1.28	NTU	5/1/2023 14:10
MR-AP-MW-19HA	COND	Conductivity	2044.57	uS/cm	5/1/2023 14:15
MR-AP-MW-19HA	DO	DO	0.23	mg/L	5/1/2023 14:15
MR-AP-MW-19HA	DTW	Depth to Water Detail	148.81	ft	5/1/2023 14:15
MR-AP-MW-19HA	ORP	Oxidation Reduction Potential	-264.19	mv	5/1/2023 14:15
MR-AP-MW-19HA	PH	pH	8	SU	5/1/2023 14:15
MR-AP-MW-19HA	TEMP	Temperature	19.08	C	5/1/2023 14:15
MR-AP-MW-19HA	TURB	Turbidity	1.53	NTU	5/1/2023 14:15
MR-AP-MW-19HA	COND	Conductivity	2065.78	uS/cm	5/1/2023 14:20
MR-AP-MW-19HA	DO	DO	0.24	mg/L	5/1/2023 14:20
MR-AP-MW-19HA	DTW	Depth to Water Detail	148.9	ft	5/1/2023 14:20
MR-AP-MW-19HA	ORP	Oxidation Reduction Potential	-272.35	mv	5/1/2023 14:20
MR-AP-MW-19HA	PH	pH	8.02	SU	5/1/2023 14:20
MR-AP-MW-19HA	SULFIDE	Sulfide	9	mg/L	5/1/2023 14:20
MR-AP-MW-19HA	TEMP	Temperature	18.91	C	5/1/2023 14:20
MR-AP-MW-19HA	TURB	Turbidity	0.95	NTU	5/1/2023 14:20
MR-AP-MW-34H	COND	Conductivity	1653.86	uS/cm	5/2/2023 9:35
MR-AP-MW-34H	DO	DO	0.37	mg/L	5/2/2023 9:35
MR-AP-MW-34H	DTW	Depth to Water Detail	154.98	ft	5/2/2023 9:35
MR-AP-MW-34H	ORP	Oxidation Reduction Potential	-262.66	mv	5/2/2023 9:35
MR-AP-MW-34H	PH	pH	7.73	SU	5/2/2023 9:35
MR-AP-MW-34H	TEMP	Temperature	16.62	C	5/2/2023 9:35
MR-AP-MW-34H	TURB	Turbidity	3.18	NTU	5/2/2023 9:35
MR-AP-MW-34H	COND	Conductivity	1964.73	uS/cm	5/2/2023 9:40
MR-AP-MW-34H	DO	DO	0.26	mg/L	5/2/2023 9:40
MR-AP-MW-34H	DTW	Depth to Water Detail	155.4	ft	5/2/2023 9:40
MR-AP-MW-34H	ORP	Oxidation Reduction Potential	-274.39	mv	5/2/2023 9:40
MR-AP-MW-34H	PH	pH	7.97	SU	5/2/2023 9:40
MR-AP-MW-34H	TEMP	Temperature	16.59	C	5/2/2023 9:40
MR-AP-MW-34H	TURB	Turbidity	0.88	NTU	5/2/2023 9:40
MR-AP-MW-34H	COND	Conductivity	1914.67	uS/cm	5/2/2023 9:45
MR-AP-MW-34H	DO	DO	0.2	mg/L	5/2/2023 9:45
MR-AP-MW-34H	DTW	Depth to Water Detail	155.98	ft	5/2/2023 9:45
MR-AP-MW-34H	ORP	Oxidation Reduction Potential	-273.46	mv	5/2/2023 9:45
MR-AP-MW-34H	PH	pH	7.94	SU	5/2/2023 9:45
MR-AP-MW-34H	TEMP	Temperature	16.66	C	5/2/2023 9:45
MR-AP-MW-34H	TURB	Turbidity	1.23	NTU	5/2/2023 9:45

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-34H	COND	Conductivity	1825.82	uS/cm	5/2/2023 9:50
MR-AP-MW-34H	DO	DO	0.2	mg/L	5/2/2023 9:50
MR-AP-MW-34H	DTW	Depth to Water Detail	156.92	ft	5/2/2023 9:50
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	-269.27	mv	5/2/2023 9:50
MR-AP-MW-34H	PH	pH	7.8	SU	5/2/2023 9:50
MR-AP-MW-34H	TEMP	Temperature	16.65	C	5/2/2023 9:50
MR-AP-MW-34H	TURB	Turbidity	1.05	NTU	5/2/2023 9:50
MR-AP-MW-34H	COND	Conductivity	1791.27	uS/cm	5/2/2023 9:55
MR-AP-MW-34H	DO	DO	0.16	mg/L	5/2/2023 9:55
MR-AP-MW-34H	DTW	Depth to Water Detail	157	ft	5/2/2023 9:55
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	-271.55	mv	5/2/2023 9:55
MR-AP-MW-34H	PH	pH	7.8	SU	5/2/2023 9:55
MR-AP-MW-34H	TEMP	Temperature	16.7	C	5/2/2023 9:55
MR-AP-MW-34H	TURB	Turbidity	0.93	NTU	5/2/2023 9:55
MR-AP-MW-34H	COND	Conductivity	1766.96	uS/cm	5/2/2023 10:00
MR-AP-MW-34H	DO	DO	0.14	mg/L	5/2/2023 10:00
MR-AP-MW-34H	DTW	Depth to Water Detail	157.55	ft	5/2/2023 10:00
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	-270.98	mv	5/2/2023 10:00
MR-AP-MW-34H	PH	pH	7.8	SU	5/2/2023 10:00
MR-AP-MW-34H	TEMP	Temperature	16.72	C	5/2/2023 10:00
MR-AP-MW-34H	TURB	Turbidity	1.03	NTU	5/2/2023 10:00
MR-AP-MW-34H	COND	Conductivity	1723.24	uS/cm	5/2/2023 10:05
MR-AP-MW-34H	DO	DO	0.14	mg/L	5/2/2023 10:05
MR-AP-MW-34H	DTW	Depth to Water Detail	158.81	ft	5/2/2023 10:05
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	-274.32	mv	5/2/2023 10:05
MR-AP-MW-34H	PH	pH	7.86	SU	5/2/2023 10:05
MR-AP-MW-34H	TEMP	Temperature	16.71	C	5/2/2023 10:05
MR-AP-MW-34H	TURB	Turbidity	0.8	NTU	5/2/2023 10:05
MR-AP-MW-34H	COND	Conductivity	1669.34	uS/cm	5/2/2023 10:10
MR-AP-MW-34H	DO	DO	0.12	mg/L	5/2/2023 10:10
MR-AP-MW-34H	DTW	Depth to Water Detail	158.86	ft	5/2/2023 10:10
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	-272.21	mv	5/2/2023 10:10
MR-AP-MW-34H	PH	pH	7.83	SU	5/2/2023 10:10
MR-AP-MW-34H	TEMP	Temperature	16.79	C	5/2/2023 10:10
MR-AP-MW-34H	TURB	Turbidity	1.45	NTU	5/2/2023 10:10
MR-AP-MW-34H	COND	Conductivity	1640.09	uS/cm	5/2/2023 10:15
MR-AP-MW-34H	DO	DO	0.14	mg/L	5/2/2023 10:15
MR-AP-MW-34H	DTW	Depth to Water Detail	158.9	ft	5/2/2023 10:15
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	-274.52	mv	5/2/2023 10:15
MR-AP-MW-34H	PH	pH	7.87	SU	5/2/2023 10:15
MR-AP-MW-34H	TEMP	Temperature	16.78	C	5/2/2023 10:15
MR-AP-MW-34H	TURB	Turbidity	0.87	NTU	5/2/2023 10:15
MR-AP-MW-34H	COND	Conductivity	1608.47	uS/cm	5/2/2023 10:20
MR-AP-MW-34H	DO	DO	0.12	mg/L	5/2/2023 10:20
MR-AP-MW-34H	DTW	Depth to Water Detail	158.98	ft	5/2/2023 10:20
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	-273.16	mv	5/2/2023 10:20
MR-AP-MW-34H	PH	pH	7.87	SU	5/2/2023 10:20
MR-AP-MW-34H	SULFIDE	Sulfide	7	mg/L	5/2/2023 10:20
MR-AP-MW-34H	TEMP	Temperature	16.85	C	5/2/2023 10:20
MR-AP-MW-34H	TURB	Turbidity	0.85	NTU	5/2/2023 10:20
MR-AP-MW-18H	COND	Conductivity	721.3	uS/cm	5/2/2023 11:22
MR-AP-MW-18H	DO	DO	1.64	mg/L	5/2/2023 11:22
MR-AP-MW-18H	DTW	Depth to Water Detail	168.16	ft	5/2/2023 11:22
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	-132.37	mv	5/2/2023 11:22
MR-AP-MW-18H	PH	pH	7.58	SU	5/2/2023 11:22
MR-AP-MW-18H	TEMP	Temperature	19.02	C	5/2/2023 11:22
MR-AP-MW-18H	TURB	Turbidity	4.01	NTU	5/2/2023 11:22
MR-AP-MW-18H	COND	Conductivity	658.2	uS/cm	5/2/2023 11:27
MR-AP-MW-18H	DO	DO	1.17	mg/L	5/2/2023 11:27
MR-AP-MW-18H	DTW	Depth to Water Detail	168.68	ft	5/2/2023 11:27
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	-115.11	mv	5/2/2023 11:27
MR-AP-MW-18H	PH	pH	7.53	SU	5/2/2023 11:27
MR-AP-MW-18H	TEMP	Temperature	19.11	C	5/2/2023 11:27
MR-AP-MW-18H	TURB	Turbidity	1.64	NTU	5/2/2023 11:27
MR-AP-MW-18H	COND	Conductivity	652.04	uS/cm	5/2/2023 11:32
MR-AP-MW-18H	DO	DO	1.08	mg/L	5/2/2023 11:32
MR-AP-MW-18H	DTW	Depth to Water Detail	169.11	ft	5/2/2023 11:32
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	-107.09	mv	5/2/2023 11:32
MR-AP-MW-18H	PH	pH	7.43	SU	5/2/2023 11:32
MR-AP-MW-18H	TEMP	Temperature	19.16	C	5/2/2023 11:32
MR-AP-MW-18H	TURB	Turbidity	2.16	NTU	5/2/2023 11:32
MR-AP-MW-18H	COND	Conductivity	647.82	uS/cm	5/2/2023 11:37
MR-AP-MW-18H	DO	DO	1.07	mg/L	5/2/2023 11:37
MR-AP-MW-18H	DTW	Depth to Water Detail	169.88	ft	5/2/2023 11:37

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	-109.64	mv	5/2/2023 11:37
MR-AP-MW-18H	PH	pH	7.49	SU	5/2/2023 11:37
MR-AP-MW-18H	TEMP	Temperature	19.04	C	5/2/2023 11:37
MR-AP-MW-18H	TURB	Turbidity	2.27	NTU	5/2/2023 11:37
MR-AP-MW-18H	COND	Conductivity	653.21	uS/cm	5/2/2023 11:42
MR-AP-MW-18H	DO	DO	1.08	mg/L	5/2/2023 11:42
MR-AP-MW-18H	DTW	Depth to Water Detail	170.06	ft	5/2/2023 11:42
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	-109.52	mv	5/2/2023 11:42
MR-AP-MW-18H	PH	pH	7.51	SU	5/2/2023 11:42
MR-AP-MW-18H	TEMP	Temperature	19.2	C	5/2/2023 11:42
MR-AP-MW-18H	TURB	Turbidity	2.21	NTU	5/2/2023 11:42
MR-AP-MW-18H	COND	Conductivity	654.06	uS/cm	5/2/2023 11:47
MR-AP-MW-18H	DO	DO	1.01	mg/L	5/2/2023 11:47
MR-AP-MW-18H	DTW	Depth to Water Detail	170.2	ft	5/2/2023 11:47
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	-109.21	mv	5/2/2023 11:47
MR-AP-MW-18H	PH	pH	7.52	SU	5/2/2023 11:47
MR-AP-MW-18H	TEMP	Temperature	19.13	C	5/2/2023 11:47
MR-AP-MW-18H	TURB	Turbidity	1.8	NTU	5/2/2023 11:47
MR-AP-MW-18H	COND	Conductivity	653.68	uS/cm	5/2/2023 11:52
MR-AP-MW-18H	DO	DO	1	mg/L	5/2/2023 11:52
MR-AP-MW-18H	DTW	Depth to Water Detail	170.31	ft	5/2/2023 11:52
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	-109.66	mv	5/2/2023 11:52
MR-AP-MW-18H	PH	pH	7.52	SU	5/2/2023 11:52
MR-AP-MW-18H	SULFIDE	Sulfide	0	mg/L	5/2/2023 11:52
MR-AP-MW-18H	TEMP	Temperature	19.31	C	5/2/2023 11:52
MR-AP-MW-18H	TURB	Turbidity	1.85	NTU	5/2/2023 11:52
MR-AP-MW-2	COND	Conductivity	1383.05	uS/cm	5/2/2023 13:24
MR-AP-MW-2	DO	DO	0.26	mg/L	5/2/2023 13:24
MR-AP-MW-2	DTW	Depth to Water Detail	204.02	ft	5/2/2023 13:24
MR-AP-MW-2	ORP	Oxidation Reduction Potention	15.88	mv	5/2/2023 13:24
MR-AP-MW-2	PH	pH	5.83	SU	5/2/2023 13:24
MR-AP-MW-2	TEMP	Temperature	19.02	C	5/2/2023 13:24
MR-AP-MW-2	TURB	Turbidity	1.62	NTU	5/2/2023 13:24
MR-AP-MW-2	COND	Conductivity	2366.73	uS/cm	5/2/2023 13:29
MR-AP-MW-2	DO	DO	0.23	mg/L	5/2/2023 13:29
MR-AP-MW-2	DTW	Depth to Water Detail	204.21	ft	5/2/2023 13:29
MR-AP-MW-2	ORP	Oxidation Reduction Potention	-5.31	mv	5/2/2023 13:29
MR-AP-MW-2	PH	pH	5.9	SU	5/2/2023 13:29
MR-AP-MW-2	TEMP	Temperature	18.58	C	5/2/2023 13:29
MR-AP-MW-2	TURB	Turbidity	1.62	NTU	5/2/2023 13:29
MR-AP-MW-2	COND	Conductivity	2662.26	uS/cm	5/2/2023 13:34
MR-AP-MW-2	DO	DO	0.22	mg/L	5/2/2023 13:34
MR-AP-MW-2	DTW	Depth to Water Detail	204.34	ft	5/2/2023 13:34
MR-AP-MW-2	ORP	Oxidation Reduction Potention	-32.67	mv	5/2/2023 13:34
MR-AP-MW-2	PH	pH	6.03	SU	5/2/2023 13:34
MR-AP-MW-2	TEMP	Temperature	18.83	C	5/2/2023 13:34
MR-AP-MW-2	TURB	Turbidity	1.48	NTU	5/2/2023 13:34
MR-AP-MW-2	COND	Conductivity	2754.42	uS/cm	5/2/2023 13:39
MR-AP-MW-2	DO	DO	0.2	mg/L	5/2/2023 13:39
MR-AP-MW-2	DTW	Depth to Water Detail	204.48	ft	5/2/2023 13:39
MR-AP-MW-2	ORP	Oxidation Reduction Potention	-46.9	mv	5/2/2023 13:39
MR-AP-MW-2	PH	pH	6.11	SU	5/2/2023 13:39
MR-AP-MW-2	TEMP	Temperature	18.64	C	5/2/2023 13:39
MR-AP-MW-2	TURB	Turbidity	1.23	NTU	5/2/2023 13:39
MR-AP-MW-2	COND	Conductivity	2715.4	uS/cm	5/2/2023 13:44
MR-AP-MW-2	DO	DO	0.21	mg/L	5/2/2023 13:44
MR-AP-MW-2	DTW	Depth to Water Detail	204.5	ft	5/2/2023 13:44
MR-AP-MW-2	ORP	Oxidation Reduction Potention	-52.03	mv	5/2/2023 13:44
MR-AP-MW-2	PH	pH	6.14	SU	5/2/2023 13:44
MR-AP-MW-2	TEMP	Temperature	18.34	C	5/2/2023 13:44
MR-AP-MW-2	TURB	Turbidity	1.22	NTU	5/2/2023 13:44
MR-AP-MW-2	COND	Conductivity	2693.21	uS/cm	5/2/2023 13:49
MR-AP-MW-2	DO	DO	0.21	mg/L	5/2/2023 13:49
MR-AP-MW-2	DTW	Depth to Water Detail	204.52	ft	5/2/2023 13:49
MR-AP-MW-2	ORP	Oxidation Reduction Potention	-52.02	mv	5/2/2023 13:49
MR-AP-MW-2	PH	pH	6.12	SU	5/2/2023 13:49
MR-AP-MW-2	SULFIDE	Sulfide	0	mg/L	5/2/2023 13:49
MR-AP-MW-2	TEMP	Temperature	18.63	C	5/2/2023 13:49
MR-AP-MW-2	TURB	Turbidity	1.16	NTU	5/2/2023 13:49
MR-AP-MW-11	COND	Conductivity	1623.65	uS/cm	5/3/2023 10:34
MR-AP-MW-11	DO	DO	0.87	mg/L	5/3/2023 10:34
MR-AP-MW-11	DTW	Depth to Water Detail	241.11	ft	5/3/2023 10:34
MR-AP-MW-11	ORP	Oxidation Reduction Potention	-48.08	mv	5/3/2023 10:34
MR-AP-MW-11	PH	pH	6.42	SU	5/3/2023 10:34

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-11	TEMP	Temperature	19.98	C	5/3/2023 10:34
MR-AP-MW-11	TURB	Turbidity	9.11	NTU	5/3/2023 10:34
MR-AP-MW-11	COND	Conductivity	1602.06	uS/cm	5/3/2023 10:39
MR-AP-MW-11	DO	DO	0.81	mg/L	5/3/2023 10:39
MR-AP-MW-11	DTW	Depth to Water Detail	241.16	ft	5/3/2023 10:39
MR-AP-MW-11	ORP	Oxidation Reduction Potention	-46.12	mv	5/3/2023 10:39
MR-AP-MW-11	PH	pH	6.46	SU	5/3/2023 10:39
MR-AP-MW-11	TEMP	Temperature	19.42	C	5/3/2023 10:39
MR-AP-MW-11	TURB	Turbidity	3.94	NTU	5/3/2023 10:39
MR-AP-MW-11	COND	Conductivity	1612.59	uS/cm	5/3/2023 10:44
MR-AP-MW-11	DO	DO	0.74	mg/L	5/3/2023 10:44
MR-AP-MW-11	DTW	Depth to Water Detail	241.18	ft	5/3/2023 10:44
MR-AP-MW-11	ORP	Oxidation Reduction Potention	-43.55	mv	5/3/2023 10:44
MR-AP-MW-11	PH	pH	6.5	SU	5/3/2023 10:44
MR-AP-MW-11	TEMP	Temperature	19.81	C	5/3/2023 10:44
MR-AP-MW-11	TURB	Turbidity	3.96	NTU	5/3/2023 10:44
MR-AP-MW-11	COND	Conductivity	1614.87	uS/cm	5/3/2023 10:49
MR-AP-MW-11	DO	DO	0.7	mg/L	5/3/2023 10:49
MR-AP-MW-11	DTW	Depth to Water Detail	241.2	ft	5/3/2023 10:49
MR-AP-MW-11	ORP	Oxidation Reduction Potention	-41.9	mv	5/3/2023 10:49
MR-AP-MW-11	PH	pH	6.52	SU	5/3/2023 10:49
MR-AP-MW-11	SULFIDE	Sulfide	0	mg/L	5/3/2023 10:49
MR-AP-MW-11	TEMP	Temperature	19.49	C	5/3/2023 10:49
MR-AP-MW-11	TURB	Turbidity	2.97	NTU	5/3/2023 10:49
MR-AP-MW-22D	COND	Conductivity	2076.3	uS/cm	5/3/2023 14:26
MR-AP-MW-22D	DO	DO	0.53	mg/L	5/3/2023 14:26
MR-AP-MW-22D	DTW	Depth to Water Detail	81.33	ft	5/3/2023 14:26
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	-186.63	mv	5/3/2023 14:26
MR-AP-MW-22D	PH	pH	8.75	SU	5/3/2023 14:26
MR-AP-MW-22D	TEMP	Temperature	19.12	C	5/3/2023 14:26
MR-AP-MW-22D	TURB	Turbidity	3.33	NTU	5/3/2023 14:26
MR-AP-MW-22D	COND	Conductivity	2078.6	uS/cm	5/3/2023 14:31
MR-AP-MW-22D	DO	DO	0.51	mg/L	5/3/2023 14:31
MR-AP-MW-22D	DTW	Depth to Water Detail	81.55	ft	5/3/2023 14:31
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	-189.54	mv	5/3/2023 14:31
MR-AP-MW-22D	PH	pH	8.76	SU	5/3/2023 14:31
MR-AP-MW-22D	TEMP	Temperature	19.08	C	5/3/2023 14:31
MR-AP-MW-22D	TURB	Turbidity	3.18	NTU	5/3/2023 14:31
MR-AP-MW-22D	COND	Conductivity	2125.93	uS/cm	5/3/2023 14:36
MR-AP-MW-22D	DO	DO	0.52	mg/L	5/3/2023 14:36
MR-AP-MW-22D	DTW	Depth to Water Detail	81.67	ft	5/3/2023 14:36
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	-191.19	mv	5/3/2023 14:36
MR-AP-MW-22D	PH	pH	8.76	SU	5/3/2023 14:36
MR-AP-MW-22D	TEMP	Temperature	19.22	C	5/3/2023 14:36
MR-AP-MW-22D	TURB	Turbidity	3.08	NTU	5/3/2023 14:36
MR-AP-MW-22D	COND	Conductivity	2197.04	uS/cm	5/3/2023 14:41
MR-AP-MW-22D	DO	DO	0.56	mg/L	5/3/2023 14:41
MR-AP-MW-22D	DTW	Depth to Water Detail	81.81	ft	5/3/2023 14:41
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	-194	mv	5/3/2023 14:41
MR-AP-MW-22D	PH	pH	8.77	SU	5/3/2023 14:41
MR-AP-MW-22D	TEMP	Temperature	19	C	5/3/2023 14:41
MR-AP-MW-22D	TURB	Turbidity	2.7	NTU	5/3/2023 14:41
MR-AP-MW-22D	COND	Conductivity	2266.93	uS/cm	5/3/2023 14:46
MR-AP-MW-22D	DO	DO	0.56	mg/L	5/3/2023 14:46
MR-AP-MW-22D	DTW	Depth to Water Detail	81.97	ft	5/3/2023 14:46
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	-194.72	mv	5/3/2023 14:46
MR-AP-MW-22D	PH	pH	8.76	SU	5/3/2023 14:46
MR-AP-MW-22D	TEMP	Temperature	19.1	C	5/3/2023 14:46
MR-AP-MW-22D	TURB	Turbidity	2.8	NTU	5/3/2023 14:46
MR-AP-MW-22D	COND	Conductivity	2292.4	uS/cm	5/3/2023 14:51
MR-AP-MW-22D	DO	DO	0.48	mg/L	5/3/2023 14:51
MR-AP-MW-22D	DTW	Depth to Water Detail	82.09	ft	5/3/2023 14:51
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	-195.77	mv	5/3/2023 14:51
MR-AP-MW-22D	PH	pH	8.76	SU	5/3/2023 14:51
MR-AP-MW-22D	SULFIDE	Sulfide	2	mg/L	5/3/2023 14:51
MR-AP-MW-22D	TEMP	Temperature	18.93	C	5/3/2023 14:51
MR-AP-MW-22D	TURB	Turbidity	3.09	NTU	5/3/2023 14:51
MR-AP-MW-22S	COND	Conductivity	1209.5	uS/cm	5/3/2023 15:44
MR-AP-MW-22S	DO	DO	0.12	mg/L	5/3/2023 15:44
MR-AP-MW-22S	DTW	Depth to Water Detail	15.56	ft	5/3/2023 15:44
MR-AP-MW-22S	ORP	Oxidation Reduction Potention	-79.96	mv	5/3/2023 15:44
MR-AP-MW-22S	PH	pH	6.8	SU	5/3/2023 15:44
MR-AP-MW-22S	TEMP	Temperature	17.91	C	5/3/2023 15:44
MR-AP-MW-22S	TURB	Turbidity	2.71	NTU	5/3/2023 15:44

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-22S	COND	Conductivity	1207.01	uS/cm	5/3/2023 15:49
MR-AP-MW-22S	DO	DO	0.11	mg/L	5/3/2023 15:49
MR-AP-MW-22S	DTW	Depth to Water Detail	15.56	ft	5/3/2023 15:49
MR-AP-MW-22S	ORP	Oxidation Reduction Potention	-79.6	mv	5/3/2023 15:49
MR-AP-MW-22S	PH	pH	6.81	SU	5/3/2023 15:49
MR-AP-MW-22S	TEMP	Temperature	17.7	C	5/3/2023 15:49
MR-AP-MW-22S	TURB	Turbidity	2.21	NTU	5/3/2023 15:49
MR-AP-MW-22S	COND	Conductivity	1204.63	uS/cm	5/3/2023 15:54
MR-AP-MW-22S	DO	DO	0.1	mg/L	5/3/2023 15:54
MR-AP-MW-22S	DTW	Depth to Water Detail	15.56	ft	5/3/2023 15:54
MR-AP-MW-22S	ORP	Oxidation Reduction Potention	-79.1	mv	5/3/2023 15:54
MR-AP-MW-22S	PH	pH	6.82	SU	5/3/2023 15:54
MR-AP-MW-22S	TEMP	Temperature	17.82	C	5/3/2023 15:54
MR-AP-MW-22S	TURB	Turbidity	2.61	NTU	5/3/2023 15:54
MR-AP-MW-22S	COND	Conductivity	1204.63	uS/cm	5/3/2023 15:59
MR-AP-MW-22S	DO	DO	0.1	mg/L	5/3/2023 15:59
MR-AP-MW-22S	DTW	Depth to Water Detail	15.56	ft	5/3/2023 15:59
MR-AP-MW-22S	ORP	Oxidation Reduction Potention	-79.14	mv	5/3/2023 15:59
MR-AP-MW-22S	PH	pH	6.83	SU	5/3/2023 15:59
MR-AP-MW-22S	SULFIDE	Sulfide	0	mg/L	5/3/2023 15:59
MR-AP-MW-22S	TEMP	Temperature	17.89	C	5/3/2023 15:59
MR-AP-MW-22S	TURB	Turbidity	2.52	NTU	5/3/2023 15:59
MR-AP-MW-13DR	COND	Conductivity	904.93	uS/cm	4/18/2023 13:01
MR-AP-MW-13DR	DO	DO	3.05	mg/L	4/18/2023 13:01
MR-AP-MW-13DR	DTW	Depth to Water Detail	107.86	ft	4/18/2023 13:01
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-33.78	mv	4/18/2023 13:01
MR-AP-MW-13DR	PH	pH	7.07	SU	4/18/2023 13:01
MR-AP-MW-13DR	TEMP	Temperature	21.21	C	4/18/2023 13:01
MR-AP-MW-13DR	TURB	Turbidity	1.73	NTU	4/18/2023 13:01
MR-AP-MW-13DR	COND	Conductivity	925.33	uS/cm	4/18/2023 13:06
MR-AP-MW-13DR	DO	DO	3.05	mg/L	4/18/2023 13:06
MR-AP-MW-13DR	DTW	Depth to Water Detail	108	ft	4/18/2023 13:06
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-37.44	mv	4/18/2023 13:06
MR-AP-MW-13DR	PH	pH	7.05	SU	4/18/2023 13:06
MR-AP-MW-13DR	TEMP	Temperature	21.45	C	4/18/2023 13:06
MR-AP-MW-13DR	TURB	Turbidity	0.97	NTU	4/18/2023 13:06
MR-AP-MW-13DR	COND	Conductivity	974.47	uS/cm	4/18/2023 13:11
MR-AP-MW-13DR	DO	DO	2.89	mg/L	4/18/2023 13:11
MR-AP-MW-13DR	DTW	Depth to Water Detail	108.33	ft	4/18/2023 13:11
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-50.23	mv	4/18/2023 13:11
MR-AP-MW-13DR	PH	pH	7.06	SU	4/18/2023 13:11
MR-AP-MW-13DR	TEMP	Temperature	21.29	C	4/18/2023 13:11
MR-AP-MW-13DR	TURB	Turbidity	1.67	NTU	4/18/2023 13:11
MR-AP-MW-13DR	COND	Conductivity	1019.27	uS/cm	4/18/2023 13:16
MR-AP-MW-13DR	DO	DO	2.6	mg/L	4/18/2023 13:16
MR-AP-MW-13DR	DTW	Depth to Water Detail	108.7	ft	4/18/2023 13:16
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-61.03	mv	4/18/2023 13:16
MR-AP-MW-13DR	PH	pH	7.07	SU	4/18/2023 13:16
MR-AP-MW-13DR	TEMP	Temperature	20.88	C	4/18/2023 13:16
MR-AP-MW-13DR	TURB	Turbidity	1.46	NTU	4/18/2023 13:16
MR-AP-MW-13DR	COND	Conductivity	1032.21	uS/cm	4/18/2023 13:21
MR-AP-MW-13DR	DO	DO	2.31	mg/L	4/18/2023 13:21
MR-AP-MW-13DR	DTW	Depth to Water Detail	108.83	ft	4/18/2023 13:21
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-68.96	mv	4/18/2023 13:21
MR-AP-MW-13DR	PH	pH	7.08	SU	4/18/2023 13:21
MR-AP-MW-13DR	TEMP	Temperature	20.89	C	4/18/2023 13:21
MR-AP-MW-13DR	TURB	Turbidity	1.09	NTU	4/18/2023 13:21
MR-AP-MW-13DR	COND	Conductivity	1027.06	uS/cm	4/18/2023 13:26
MR-AP-MW-13DR	DO	DO	2.13	mg/L	4/18/2023 13:26
MR-AP-MW-13DR	DTW	Depth to Water Detail	109.13	ft	4/18/2023 13:26
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-72.96	mv	4/18/2023 13:26
MR-AP-MW-13DR	PH	pH	7.09	SU	4/18/2023 13:26
MR-AP-MW-13DR	TEMP	Temperature	21.07	C	4/18/2023 13:26
MR-AP-MW-13DR	TURB	Turbidity	1.01	NTU	4/18/2023 13:26
MR-AP-MW-13DR	COND	Conductivity	1002.88	uS/cm	4/18/2023 13:31
MR-AP-MW-13DR	DO	DO	2.08	mg/L	4/18/2023 13:31
MR-AP-MW-13DR	DTW	Depth to Water Detail	109.28	ft	4/18/2023 13:31
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-73.73	mv	4/18/2023 13:31
MR-AP-MW-13DR	PH	pH	7.08	SU	4/18/2023 13:31
MR-AP-MW-13DR	TEMP	Temperature	21.18	C	4/18/2023 13:31
MR-AP-MW-13DR	TURB	Turbidity	0.9	NTU	4/18/2023 13:31
MR-AP-MW-13DR	COND	Conductivity	975.62	uS/cm	4/18/2023 13:36
MR-AP-MW-13DR	DO	DO	2.1	mg/L	4/18/2023 13:36
MR-AP-MW-13DR	DTW	Depth to Water Detail	109.44	ft	4/18/2023 13:36

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-72.29	mv	4/18/2023 13:36
MR-AP-MW-13DR	PH	pH	7.07	SU	4/18/2023 13:36
MR-AP-MW-13DR	TEMP	Temperature	21.06	C	4/18/2023 13:36
MR-AP-MW-13DR	TURB	Turbidity	1.52	NTU	4/18/2023 13:36
MR-AP-MW-13DR	COND	Conductivity	946.55	uS/cm	4/18/2023 13:41
MR-AP-MW-13DR	DO	DO	2.22	mg/L	4/18/2023 13:41
MR-AP-MW-13DR	DTW	Depth to Water Detail	109.59	ft	4/18/2023 13:41
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-70.8	mv	4/18/2023 13:41
MR-AP-MW-13DR	PH	pH	7.08	SU	4/18/2023 13:41
MR-AP-MW-13DR	TEMP	Temperature	20.83	C	4/18/2023 13:41
MR-AP-MW-13DR	TURB	Turbidity	1.16	NTU	4/18/2023 13:41
MR-AP-MW-13DR	COND	Conductivity	934.16	uS/cm	4/18/2023 13:46
MR-AP-MW-13DR	DO	DO	2.33	mg/L	4/18/2023 13:46
MR-AP-MW-13DR	DTW	Depth to Water Detail	109.72	ft	4/18/2023 13:46
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-69.37	mv	4/18/2023 13:46
MR-AP-MW-13DR	PH	pH	7.07	SU	4/18/2023 13:46
MR-AP-MW-13DR	TEMP	Temperature	21.28	C	4/18/2023 13:46
MR-AP-MW-13DR	TURB	Turbidity	1.27	NTU	4/18/2023 13:46
MR-AP-MW-13DR	COND	Conductivity	914.98	uS/cm	4/18/2023 13:51
MR-AP-MW-13DR	DO	DO	2.38	mg/L	4/18/2023 13:51
MR-AP-MW-13DR	DTW	Depth to Water Detail	109.72	ft	4/18/2023 13:51
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	-68.58	mv	4/18/2023 13:51
MR-AP-MW-13DR	PH	pH	7.07	SU	4/18/2023 13:51
MR-AP-MW-13DR	SULFIDE	Sulfide	0	mg/L	4/18/2023 13:51
MR-AP-MW-13DR	TEMP	Temperature	21.26	C	4/18/2023 13:51
MR-AP-MW-13DR	TURB	Turbidity	1.15	NTU	4/18/2023 13:51
MR-AP-MW-27HR	COND	Conductivity	750.55	uS/cm	4/25/2023 13:48
MR-AP-MW-27HR	DO	DO	0.99	mg/L	4/25/2023 13:48
MR-AP-MW-27HR	DTW	Depth to Water Detail	106.41	ft	4/25/2023 13:48
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-56.57	mv	4/25/2023 13:48
MR-AP-MW-27HR	PH	pH	7.08	SU	4/25/2023 13:48
MR-AP-MW-27HR	TEMP	Temperature	18.02	C	4/25/2023 13:48
MR-AP-MW-27HR	TURB	Turbidity	11.7	NTU	4/25/2023 13:48
MR-AP-MW-27HR	COND	Conductivity	872.96	uS/cm	4/25/2023 13:53
MR-AP-MW-27HR	DO	DO	0.74	mg/L	4/25/2023 13:53
MR-AP-MW-27HR	DTW	Depth to Water Detail	107.12	ft	4/25/2023 13:53
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-18.13	mv	4/25/2023 13:53
MR-AP-MW-27HR	PH	pH	7.08	SU	4/25/2023 13:53
MR-AP-MW-27HR	TEMP	Temperature	18.09	C	4/25/2023 13:53
MR-AP-MW-27HR	TURB	Turbidity	4.4	NTU	4/25/2023 13:53
MR-AP-MW-27HR	COND	Conductivity	821.81	uS/cm	4/25/2023 13:58
MR-AP-MW-27HR	DO	DO	0.71	mg/L	4/25/2023 13:58
MR-AP-MW-27HR	DTW	Depth to Water Detail	107.31	ft	4/25/2023 13:58
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-7.24	mv	4/25/2023 13:58
MR-AP-MW-27HR	PH	pH	7.1	SU	4/25/2023 13:58
MR-AP-MW-27HR	TEMP	Temperature	18.01	C	4/25/2023 13:58
MR-AP-MW-27HR	TURB	Turbidity	2.37	NTU	4/25/2023 13:58
MR-AP-MW-27HR	COND	Conductivity	766.56	uS/cm	4/25/2023 14:03
MR-AP-MW-27HR	DO	DO	0.66	mg/L	4/25/2023 14:03
MR-AP-MW-27HR	DTW	Depth to Water Detail	107.71	ft	4/25/2023 14:03
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-11.55	mv	4/25/2023 14:03
MR-AP-MW-27HR	PH	pH	7.11	SU	4/25/2023 14:03
MR-AP-MW-27HR	TEMP	Temperature	18.01	C	4/25/2023 14:03
MR-AP-MW-27HR	TURB	Turbidity	1.29	NTU	4/25/2023 14:03
MR-AP-MW-27HR	COND	Conductivity	718.68	uS/cm	4/25/2023 14:08
MR-AP-MW-27HR	DO	DO	0.66	mg/L	4/25/2023 14:08
MR-AP-MW-27HR	DTW	Depth to Water Detail	107.94	ft	4/25/2023 14:08
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-18.26	mv	4/25/2023 14:08
MR-AP-MW-27HR	PH	pH	7.11	SU	4/25/2023 14:08
MR-AP-MW-27HR	TEMP	Temperature	17.93	C	4/25/2023 14:08
MR-AP-MW-27HR	TURB	Turbidity	1.3	NTU	4/25/2023 14:08
MR-AP-MW-27HR	COND	Conductivity	682.45	uS/cm	4/25/2023 14:13
MR-AP-MW-27HR	DO	DO	0.63	mg/L	4/25/2023 14:13
MR-AP-MW-27HR	DTW	Depth to Water Detail	108.23	ft	4/25/2023 14:13
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-24.04	mv	4/25/2023 14:13
MR-AP-MW-27HR	PH	pH	7.11	SU	4/25/2023 14:13
MR-AP-MW-27HR	TEMP	Temperature	17.88	C	4/25/2023 14:13
MR-AP-MW-27HR	TURB	Turbidity	1.13	NTU	4/25/2023 14:13
MR-AP-MW-27HR	COND	Conductivity	651.61	uS/cm	4/25/2023 14:18
MR-AP-MW-27HR	DO	DO	0.64	mg/L	4/25/2023 14:18
MR-AP-MW-27HR	DTW	Depth to Water Detail	108.39	ft	4/25/2023 14:18
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-28.24	mv	4/25/2023 14:18
MR-AP-MW-27HR	PH	pH	7.11	SU	4/25/2023 14:18
MR-AP-MW-27HR	TEMP	Temperature	17.88	C	4/25/2023 14:18

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-27HR	TURB	Turbidity	1.26	NTU	4/25/2023 14:18
MR-AP-MW-27HR	COND	Conductivity	632.88	uS/cm	4/25/2023 14:23
MR-AP-MW-27HR	DO	DO	0.62	mg/L	4/25/2023 14:23
MR-AP-MW-27HR	DTW	Depth to Water Detail	108.54	ft	4/25/2023 14:23
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-31.34	mv	4/25/2023 14:23
MR-AP-MW-27HR	PH	pH	7.12	SU	4/25/2023 14:23
MR-AP-MW-27HR	TEMP	Temperature	17.91	C	4/25/2023 14:23
MR-AP-MW-27HR	TURB	Turbidity	1.16	NTU	4/25/2023 14:23
MR-AP-MW-27HR	COND	Conductivity	606.93	uS/cm	4/25/2023 14:28
MR-AP-MW-27HR	DO	DO	0.6	mg/L	4/25/2023 14:28
MR-AP-MW-27HR	DTW	Depth to Water Detail	108.7	ft	4/25/2023 14:28
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-34.85	mv	4/25/2023 14:28
MR-AP-MW-27HR	PH	pH	7.12	SU	4/25/2023 14:28
MR-AP-MW-27HR	TEMP	Temperature	17.99	C	4/25/2023 14:28
MR-AP-MW-27HR	TURB	Turbidity	1.16	NTU	4/25/2023 14:28
MR-AP-MW-27HR	COND	Conductivity	602.35	uS/cm	4/25/2023 14:33
MR-AP-MW-27HR	DO	DO	0.59	mg/L	4/25/2023 14:33
MR-AP-MW-27HR	DTW	Depth to Water Detail	108.83	ft	4/25/2023 14:33
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-37.6	mv	4/25/2023 14:33
MR-AP-MW-27HR	PH	pH	7.13	SU	4/25/2023 14:33
MR-AP-MW-27HR	TEMP	Temperature	18.02	C	4/25/2023 14:33
MR-AP-MW-27HR	TURB	Turbidity	1.14	NTU	4/25/2023 14:33
MR-AP-MW-27HR	COND	Conductivity	589.79	uS/cm	4/25/2023 14:38
MR-AP-MW-27HR	DO	DO	0.57	mg/L	4/25/2023 14:38
MR-AP-MW-27HR	DTW	Depth to Water Detail	108.97	ft	4/25/2023 14:38
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	-40.6	mv	4/25/2023 14:38
MR-AP-MW-27HR	PH	pH	7.13	SU	4/25/2023 14:38
MR-AP-MW-27HR	SULFIDE	Sulfide	0	mg/L	4/25/2023 14:38
MR-AP-MW-27HR	TEMP	Temperature	18.14	C	4/25/2023 14:38
MR-AP-MW-27HR	TURB	Turbidity	1.24	NTU	4/25/2023 14:38
MR-AP-MW-13SR	COND	Conductivity	1352.89	uS/cm	4/18/2023 11:03
MR-AP-MW-13SR	DO	DO	2.39	mg/L	4/18/2023 11:03
MR-AP-MW-13SR	DTW	Depth to Water Detail	43.84	ft	4/18/2023 11:03
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	156	mv	4/18/2023 11:03
MR-AP-MW-13SR	PH	pH	5.3	SU	4/18/2023 11:03
MR-AP-MW-13SR	TEMP	Temperature	18.69	C	4/18/2023 11:03
MR-AP-MW-13SR	TURB	Turbidity	5.06	NTU	4/18/2023 11:03
MR-AP-MW-13SR	COND	Conductivity	1390.75	uS/cm	4/18/2023 11:08
MR-AP-MW-13SR	DO	DO	1.13	mg/L	4/18/2023 11:08
MR-AP-MW-13SR	DTW	Depth to Water Detail	43.84	ft	4/18/2023 11:08
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	159.68	mv	4/18/2023 11:08
MR-AP-MW-13SR	PH	pH	5.24	SU	4/18/2023 11:08
MR-AP-MW-13SR	TEMP	Temperature	18.64	C	4/18/2023 11:08
MR-AP-MW-13SR	TURB	Turbidity	3.18	NTU	4/18/2023 11:08
MR-AP-MW-13SR	COND	Conductivity	1393.37	uS/cm	4/18/2023 11:13
MR-AP-MW-13SR	DO	DO	0.71	mg/L	4/18/2023 11:13
MR-AP-MW-13SR	DTW	Depth to Water Detail	43.84	ft	4/18/2023 11:13
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	162.07	mv	4/18/2023 11:13
MR-AP-MW-13SR	PH	pH	5.2	SU	4/18/2023 11:13
MR-AP-MW-13SR	TEMP	Temperature	18.64	C	4/18/2023 11:13
MR-AP-MW-13SR	TURB	Turbidity	2.19	NTU	4/18/2023 11:13
MR-AP-MW-13SR	COND	Conductivity	1376.72	uS/cm	4/18/2023 11:18
MR-AP-MW-13SR	DO	DO	0.7	mg/L	4/18/2023 11:18
MR-AP-MW-13SR	DTW	Depth to Water Detail	43.84	ft	4/18/2023 11:18
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	164.85	mv	4/18/2023 11:18
MR-AP-MW-13SR	PH	pH	5.18	SU	4/18/2023 11:18
MR-AP-MW-13SR	TEMP	Temperature	18.8	C	4/18/2023 11:18
MR-AP-MW-13SR	TURB	Turbidity	2.07	NTU	4/18/2023 11:18
MR-AP-MW-13SR	COND	Conductivity	1375.14	uS/cm	4/18/2023 11:23
MR-AP-MW-13SR	DO	DO	0.93	mg/L	4/18/2023 11:23
MR-AP-MW-13SR	DTW	Depth to Water Detail	43.84	ft	4/18/2023 11:23
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	168	mv	4/18/2023 11:23
MR-AP-MW-13SR	PH	pH	5.16	SU	4/18/2023 11:23
MR-AP-MW-13SR	TEMP	Temperature	18.83	C	4/18/2023 11:23
MR-AP-MW-13SR	TURB	Turbidity	2.51	NTU	4/18/2023 11:23
MR-AP-MW-13SR	COND	Conductivity	1369.41	uS/cm	4/18/2023 11:28
MR-AP-MW-13SR	DO	DO	1.2	mg/L	4/18/2023 11:28
MR-AP-MW-13SR	DTW	Depth to Water Detail	43.84	ft	4/18/2023 11:28
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	171.26	mv	4/18/2023 11:28
MR-AP-MW-13SR	PH	pH	5.14	SU	4/18/2023 11:28
MR-AP-MW-13SR	TEMP	Temperature	18.89	C	4/18/2023 11:28
MR-AP-MW-13SR	TURB	Turbidity	2.03	NTU	4/18/2023 11:28
MR-AP-MW-13SR	COND	Conductivity	1362.27	uS/cm	4/18/2023 11:33
MR-AP-MW-13SR	DO	DO	1.17	mg/L	4/18/2023 11:33

**Plant Miller Ash Pond
Field Parameter Summary
April - May 2023**

WELL_ID	PARAMETER	DESCRIPTION	VALUE	UNIT	READING_DATETIME
MR-AP-MW-13SR	DTW	Depth to Water Detail	43.84	ft	4/18/2023 11:33
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	173.16	mv	4/18/2023 11:33
MR-AP-MW-13SR	PH	pH	5.14	SU	4/18/2023 11:33
MR-AP-MW-13SR	TEMP	Temperature	18.92	C	4/18/2023 11:33
MR-AP-MW-13SR	TURB	Turbidity	2.47	NTU	4/18/2023 11:33
MR-AP-MW-13SR	COND	Conductivity	1355.99	uS/cm	4/18/2023 11:38
MR-AP-MW-13SR	DO	DO	1.1	mg/L	4/18/2023 11:38
MR-AP-MW-13SR	DTW	Depth to Water Detail	43.84	ft	4/18/2023 11:38
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	172.47	mv	4/18/2023 11:38
MR-AP-MW-13SR	PH	pH	5.16	SU	4/18/2023 11:38
MR-AP-MW-13SR	SULFIDE	Sulfide	0	mg/L	4/18/2023 11:38
MR-AP-MW-13SR	TEMP	Temperature	18.95	C	4/18/2023 11:38
MR-AP-MW-13SR	TURB	Turbidity	2.51	NTU	4/18/2023 11:38

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

Analytical Report



Sample Group : WMWMILAP_1408

Project/Site : Miller Ash Pond
Quinton, AL 35130

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

Attention : Dustin Brooks & Greg Dyer

Released By : Brooke Caton
tbwill@southernco.com
(205) 664-6101

June 12, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between April 20, 2023 and May 04, 2023. 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, 2023

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

Sincerely,

Quality Control: **Brooke
Caton**

Digitally signed by Brooke
Caton
Date: 2023.06.12
11:05:19 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T. Durant Maske, gn=T. Durant Maske, c=US,
United States, +US, United States
e=tdmaske@southernco.com
Reason: I am the author of this document
Location:
Date: 2023-06-13 13:19:05-00



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

Miller Ash Pond

WMWMILAP_1408

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>
BD07879	753095	WMWMILAP_1408
BD07880	753095	WMWMILAP_1408
BD07881	753095	WMWMILAP_1408
BD07882	753095	WMWMILAP_1408
BD07883	753095	WMWMILAP_1408
BD07884	753095	WMWMILAP_1408
BD07885	753095	WMWMILAP_1408
BD07886	753095	WMWMILAP_1408
BD07887	753095	WMWMILAP_1408
BD07888	753095	WMWMILAP_1408
BD07889	753096	WMWMILAP_1408
BD07890	753096	WMWMILAP_1408
BD07891	753096	WMWMILAP_1408
BD07892	753096	WMWMILAP_1408
BD08188	753918	WMWMILAP_1408
BD08189	753918	WMWMILAP_1408
BD08190	753918	WMWMILAP_1408
BD08191	753918	WMWMILAP_1408
BD08192	753918	WMWMILAP_1408
BD08193	753918	WMWMILAP_1408
BD08194	753918	WMWMILAP_1408
BD08195	753918	WMWMILAP_1408
BD08196	753918	WMWMILAP_1408
BD08197	753918	WMWMILAP_1408
BD08198	753919	WMWMILAP_1408
BD08199	753919	WMWMILAP_1408
BD08200	753919	WMWMILAP_1408
BD08201	753919	WMWMILAP_1408
BD08202	753919	WMWMILAP_1408
BD08661	754405	WMWMILAP_1408
BD08662	754405	WMWMILAP_1408

BD08663	754405	WMWMILAP_1408
BD08664	754405	WMWMILAP_1408
BD08665	754405	WMWMILAP_1408
BD08666	754405	WMWMILAP_1408
BD08667	754405	WMWMILAP_1408
BD08668	754405	WMWMILAP_1408
BD08669	754405	WMWMILAP_1408
BD08670	754405	WMWMILAP_1408
BD08671	754406	WMWMILAP_1408
BD08672	754406	WMWMILAP_1408
BD08673	754406	WMWMILAP_1408
BD08674	754406	WMWMILAP_1408
BD08675	754406	WMWMILAP_1408
BD08676	754406	WMWMILAP_1408
BD08677	754406	WMWMILAP_1408
BD08678	754406	WMWMILAP_1408
BD08679	754406	WMWMILAP_1408
BD08680	754406	WMWMILAP_1408
BD08681	754407	WMWMILAP_1408
BD08682	754407	WMWMILAP_1408
BD08683	754407	WMWMILAP_1408
BD08684	754407	WMWMILAP_1408
BD08685	754407	WMWMILAP_1408
BD08686	754407	WMWMILAP_1408

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 all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- 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:
 - BD07888 Calcium & Sodium MS/MSD spike levels were <30% of the sample concentrations.
 - BD08202 Calcium, Magnesium & Sodium MS/MSD spike levels were <30% of the sample concentrations.
 - BD08680 Lithium MS and/or MSD recovery is outside of specification limit.
 - BD08680 Calcium, Iron, Magnesium, & Sodium MS/MSD spike level was <30% of the sample concentration.
 - BD08686 Calcium, Iron, & Sodium MS/MSD spike levels were <30% of the sample concentrations.
 - 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>
BD07879	Sodium	10.15
BD07880	Calcium	10.15
BD07881	Calcium	10.15
BD07882	Calcium, Sodium	10.15
BD07883	Calcium, Magnesium, Sodium	10.15
BD07884	Calcium, Iron	10.15
BD07885	Calcium, Iron	10.15
BD07886	Calcium	10.15
BD07887	Calcium, Iron, Magnesium	10.15
BD07888	Calcium, Sodium	10.15
BD07889	Calcium, Sodium	10.15
BD07890	Calcium, Iron, Sodium	10.15

Case Narrative

BD07891	Calcium, Iron, Sodium	10.15
BD07892	Calcium	10.15
BD08188	Calcium, Sodium	10.15
BD08190	Calcium, Iron, Sodium	10.15
BD08191	Calcium, Sodium	10.15
BD08192	Sodium	10.15
BD08193	Calcium, Iron, Sodium	10.15
BD08194	Calcium, Sodium	10.15
BD08195	Calcium, Iron, Sodium	10.15
BD08196	Calcium, Sodium	10.15
BD08198	Calcium, Magnesium, Sodium	10.15
BD08199	Sodium	101.5
BD08200	Calcium, Sodium	10.15
BD08202	Calcium, Magnesium, Sodium	10.15
BD08661	Calcium, Magnesium	10.15
BD08661	Sodium	101.5
BD08662	Calcium, Magnesium	10.15
BD08662	Sodium	101.5
BD08664	Calcium	10.15
BD08665	Calcium	10.15
BD08666	Sodium	10.15
BD08667	Calcium, Sodium	10.15
BD08668	Calcium	10.15
BD08669	Calcium, Sodium	10.15
BD08671	Calcium, Magnesium	10.15
BD08671	Sodium	101.5
BD08672	Sodium	10.15
BD08673	Calcium, Iron, Magnesium, Sodium	10.15
BD08674	Calcium, Magnesium	10.15
BD08676	Sodium	10.15
BD08677	Sodium	101.5
BD08678	Sodium	10.15
BD08679	Sodium	10.15
BD08680	Calcium, Magnesium, Sodium	10.15
BD08680	Iron	101.5
BD08681	Calcium, Iron, Magnesium, Sodium	10.15
BD08683	Sodium	101.5
BD08684	Calcium, Magnesium, Sodium	10.15
BD08685	Calcium, Magnesium, Sodium	10.15

BD08686

Calcium, Iron, Sodium

10.15

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

Dissolved Metals ICP

Miller Ash Pond

WMWMILAP_1408

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>
BD07879	753101	WMWMILAP_1408
BD07880	753101	WMWMILAP_1408
BD07881	753101	WMWMILAP_1408
BD07882	753101	WMWMILAP_1408
BD07883	753101	WMWMILAP_1408
BD07884	753101	WMWMILAP_1408
BD07885	753101	WMWMILAP_1408
BD07886	753101	WMWMILAP_1408
BD07887	753101	WMWMILAP_1408
BD07888	753101	WMWMILAP_1408
BD07889	753102	WMWMILAP_1408
BD07890	753102	WMWMILAP_1408
BD07891	753102	WMWMILAP_1408
BD07892	753102	WMWMILAP_1408
BD08188	753882	WMWMILAP_1408
BD08190	753882	WMWMILAP_1408
BD08191	753882	WMWMILAP_1408
BD08192	753882	WMWMILAP_1408
BD08193	753882	WMWMILAP_1408
BD08194	753882	WMWMILAP_1408
BD08195	753882	WMWMILAP_1408
BD08196	753882	WMWMILAP_1408
BD08198	753882	WMWMILAP_1408
BD08199	753882	WMWMILAP_1408
BD08200	753883	WMWMILAP_1408
BD08202	753883	WMWMILAP_1408
BD08661	754345	WMWMILAP_1408
BD08662	754345	WMWMILAP_1408
BD08664	754345	WMWMILAP_1408
BD08665	754345	WMWMILAP_1408
BD08666	754345	WMWMILAP_1408

BD08667	754345	WMWMILAP_1408
BD08668	754345	WMWMILAP_1408
BD08669	754345	WMWMILAP_1408
BD08671	754345	WMWMILAP_1408
BD08672	754345	WMWMILAP_1408
BD08673	754346	WMWMILAP_1408
BD08674	754346	WMWMILAP_1408
BD08676	754346	WMWMILAP_1408
BD08677	754346	WMWMILAP_1408
BD08678	754346	WMWMILAP_1408
BD08679	754346	WMWMILAP_1408
BD08680	754346	WMWMILAP_1408
BD08681	754346	WMWMILAP_1408
BD08683	754346	WMWMILAP_1408
BD08684	754346	WMWMILAP_1408
BD08685	754347	WMWMILAP_1408
BD08686	754347	WMWMILAP_1408

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 all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- 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.
- 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 except for the following:
 - BD07888 Calcium & Sodium MS/MSD spike levels were <30% of the sample concentrations.
 - BD08199 Sodium MS/MSD spike levels were <30% of the sample concentrations.
 - BD08202 Calcium, Magnesium, & Sodium MS/MSD spike level was <30% of the sample concentration.
 - BD08672 Sodium MS/MSD spike levels were <30% of the sample concentrations.
 - BD08684 Calcium, Magnesium, & Sodium MS/MSD spike levels were <30% of the sample concentrations.
 - BD08686 Calcium & Sodium MS/MSD spike level was <30% of the sample concentration.
 - A matrix spike and matrix spike duplicate were 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>
BD07879	Sodium	10.15
BD07880	Calcium	10.15
BD07881	Calcium	10.15
BD07882	Calcium, Sodium	10.15
BD07883	Calcium, Sodium	10.15
BD07884	Calcium, Iron	10.15
BD07885	Calcium, Iron	10.15
BD07886	Calcium	10.15
BD07887	Calcium, Iron, Magnesium	10.15
BD07888	Calcium, Sodium	10.15
BD07889	Calcium, Sodium	10.15
BD07890	Calcium, Iron, Sodium	10.15
BD07891	Calcium, Iron, Sodium	10.15
BD07892	Calcium	10.15
BD08188	Calcium, Sodium	10.15
BD08190	Calcium, Iron, Sodium	10.15
BD08191	Calcium, Sodium	10.15
BD08192	Sodium	10.15
BD08193	Calcium, Iron, Sodium	10.15
BD08194	Calcium, Sodium	10.15

Case Narrative

BD08195	Calcium, Iron, Sodium	10.15
BD08196	Calcium, Sodium	10.15
BD08198	Calcium, Magnesium, Sodium	10.15
BD08199	Sodium	101.5
BD08200	Calcium, Sodium	10.15
BD08202	Calcium, Magnesium, Sodium	10.15
BD08661	Calcium, Magnesium	10.15
BD08661	Sodium	101.5
BD08662	Calcium, Magnesium	10.15
BD08662	Sodium	101.5
BD08664	Calcium	10.15
BD08665	Calcium	10.15
BD08666	Sodium	10.15
BD08667	Calcium, Sodium	10.15
BD08669	Calcium, Sodium	10.15
BD08671	Calcium, Magnesium	10.15
BD08671	Sodium	101.5
BD08672	Sodium	10.15
BD08673	Calcium, Iron, Magnesium, Sodium	10.15
BD08674	Calcium, Magnesium	10.15
BD08676	Sodium	10.15
BD08677	Sodium	101.5
BD08678	Sodium	10.15
BD08679	Sodium	10.15
BD08680	Calcium, Magnesium, Sodium	10.15
BD08680	Iron	101.5
BD08681	Calcium, Iron, Magnesium, Sodium	10.15
BD08683	Sodium	101.5
BD08684	Calcium, Magnesium, Sodium	10.15
BD08685	Calcium, Magnesium, Sodium	10.15
BD08686	Calcium, Sodium	10.15

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

Case Narrative

Total Metals ICPMS

Miller Ash Pond

WMWMILAP_1408

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>
BD07879	753414, 754197	WMWMILAP_1408
BD07880	753414, 754197	WMWMILAP_1408
BD07881	753414, 754197	WMWMILAP_1408
BD07882	753414, 754197	WMWMILAP_1408
BD07883	753414, 754197	WMWMILAP_1408
BD07884	753414, 754197	WMWMILAP_1408
BD07885	753414, 754197	WMWMILAP_1408
BD07886	753414, 754197	WMWMILAP_1408
BD07887	753414, 754197	WMWMILAP_1408
BD07888	753414, 754197	WMWMILAP_1408
BD07889	753415, 754198	WMWMILAP_1408
BD07890	753415, 754198	WMWMILAP_1408
BD07891	753415, 754198	WMWMILAP_1408
BD07892	753415, 754198	WMWMILAP_1408
BD08188	754591	WMWMILAP_1408
BD08189	754591	WMWMILAP_1408
BD08190	754591	WMWMILAP_1408
BD08191	754591	WMWMILAP_1408
BD08192	754591	WMWMILAP_1408
BD08193	754591	WMWMILAP_1408
BD08194	754591	WMWMILAP_1408
BD08195	754591	WMWMILAP_1408
BD08196	754591	WMWMILAP_1408
BD08197	754591	WMWMILAP_1408
BD08198	754592	WMWMILAP_1408
BD08199	754592	WMWMILAP_1408
BD08200	754592	WMWMILAP_1408
BD08201	754592	WMWMILAP_1408
BD08202	754592	WMWMILAP_1408
BD08661	755007	WMWMILAP_1408
BD08662	755007	WMWMILAP_1408

BD08663	755007	WMWMILAP_1408
BD08664	755007	WMWMILAP_1408
BD08665	755007	WMWMILAP_1408
BD08666	755007	WMWMILAP_1408
BD08667	755007	WMWMILAP_1408
BD08668	755007	WMWMILAP_1408
BD08669	755007	WMWMILAP_1408
BD08670	755007	WMWMILAP_1408
BD08671	755008	WMWMILAP_1408
BD08672	755008	WMWMILAP_1408
BD08673	755008	WMWMILAP_1408
BD08674	755008	WMWMILAP_1408
BD08675	755008	WMWMILAP_1408
BD08676	755008	WMWMILAP_1408
BD08677	755008	WMWMILAP_1408
BD08678	755008	WMWMILAP_1408
BD08679	755008	WMWMILAP_1408
BD08680	755008	WMWMILAP_1408
BD08681	755009	WMWMILAP_1408
BD08682	755009	WMWMILAP_1408
BD08683	755009, 756760	WMWMILAP_1408
BD08684	755009	WMWMILAP_1408
BD08685	755009	WMWMILAP_1408
BD08686	755009	WMWMILAP_1408

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.

- 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 except for the following:
 - BD08680 Manganese MS/MSD spike level was <30% of the sample concentration.
 - 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>
BD07887	Manganese	5.075
BD07890	Manganese	5.075
BD07891	Manganese	5.075
BD08190	Manganese	5.075
BD08193	Manganese	5.075
BD08194	Manganese	5.075
BD08195	Manganese	5.075
BD08196	Manganese	5.075
BD08661	Barium	10.15
BD08662	Barium	92.365
BD08673	Manganese	5.075
BD08680	Manganese	5.075

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

Dissolved Metals ICPMS

Miller Ash Pond

WMWMILAP_1408

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>
BD07879	753763, 754113	WMWMILAP_1408
BD07880	753763, 754113	WMWMILAP_1408
BD07881	753763, 754113	WMWMILAP_1408
BD07882	753763, 754113	WMWMILAP_1408
BD07883	753763, 754113	WMWMILAP_1408
BD07884	753763, 754113	WMWMILAP_1408
BD07885	753763, 754113	WMWMILAP_1408
BD07886	753763, 754113	WMWMILAP_1408
BD07887	753763, 754113	WMWMILAP_1408
BD07888	753763, 754113	WMWMILAP_1408
BD07889	753764, 754114	WMWMILAP_1408
BD07890	753764, 754114	WMWMILAP_1408
BD07891	753764, 754114	WMWMILAP_1408
BD07892	753764, 754114	WMWMILAP_1408
BD08188	754085	WMWMILAP_1408
BD08190	754085	WMWMILAP_1408
BD08191	754085	WMWMILAP_1408
BD08192	754085	WMWMILAP_1408
BD08193	754085	WMWMILAP_1408
BD08194	754085	WMWMILAP_1408
BD08195	754085	WMWMILAP_1408
BD08196	754085	WMWMILAP_1408
BD08198	754085	WMWMILAP_1408
BD08199	754085	WMWMILAP_1408
BD08200	754086	WMWMILAP_1408
BD08202	754086	WMWMILAP_1408
BD08661	754808	WMWMILAP_1408
BD08662	754808	WMWMILAP_1408
BD08664	754808	WMWMILAP_1408
BD08665	754808	WMWMILAP_1408
BD08666	754808	WMWMILAP_1408

BD08667	754808	WMWMILAP_1408
BD08668	754808	WMWMILAP_1408
BD08669	754808	WMWMILAP_1408
BD08671	754808	WMWMILAP_1408
BD08672	754808	WMWMILAP_1408
BD08673	754809	WMWMILAP_1408
BD08674	754809	WMWMILAP_1408
BD08676	754809	WMWMILAP_1408
BD08677	754809, 756761	WMWMILAP_1408
BD08678	754809, 756761	WMWMILAP_1408
BD08679	754809	WMWMILAP_1408
BD08680	754809	WMWMILAP_1408
BD08681	754809	WMWMILAP_1408
BD08683	754809, 756761	WMWMILAP_1408
BD08684	754809	WMWMILAP_1408
BD08685	754810	WMWMILAP_1408
BD08686	754810	WMWMILAP_1408

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.
- 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.
 - BD08683 Selenium MS/MSD were analyzed. Matrix spike information could not be reported for this sample due to software limitations. MS recovery was 96.6% and MSD recovery was 98.1%
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
 - BD08683 Selenium MS/MSD were analyzed. Matrix spike information could not be reported for this sample due to software limitations. MS/MSD precision was 1.53%.
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>
BD07887	Manganese	5.075
BD07890	Manganese	5.075
BD07891	Manganese	5.075
BD08190	Manganese	5.075
BD08193	Manganese	5.075
BD08194	Manganese	5.075
BD08195	Manganese	5.075
BD08196	Manganese	5.075
BD08661	Barium	10.15
BD08662	Barium	92.365
BD08673	Manganese	5.075
BD08680	Manganese	5.075

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

Mercury

Miller Ash Pond

WMWMILAP_1408

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>
BD07879	753658	WMWMILAP_1408
BD07880	753658	WMWMILAP_1408
BD07881	753658	WMWMILAP_1408
BD07882	753658	WMWMILAP_1408
BD07883	753658	WMWMILAP_1408
BD07884	753658	WMWMILAP_1408
BD07885	753658	WMWMILAP_1408
BD07886	753658	WMWMILAP_1408
BD07887	753658	WMWMILAP_1408
BD07888	753658	WMWMILAP_1408
BD07889	753659	WMWMILAP_1408
BD07890	753659	WMWMILAP_1408
BD07891	753659	WMWMILAP_1408
BD07892	753659	WMWMILAP_1408
BD08188	753839	WMWMILAP_1408
BD08189	753839	WMWMILAP_1408
BD08190	753839	WMWMILAP_1408
BD08191	753839	WMWMILAP_1408
BD08192	753839	WMWMILAP_1408
BD08193	753839	WMWMILAP_1408
BD08194	753839	WMWMILAP_1408
BD08195	753839	WMWMILAP_1408
BD08196	753839	WMWMILAP_1408
BD08197	753839	WMWMILAP_1408
BD08198	753840	WMWMILAP_1408
BD08199	753840	WMWMILAP_1408
BD08200	753840	WMWMILAP_1408
BD08201	753840	WMWMILAP_1408
BD08202	753840	WMWMILAP_1408
BD08661	754423	WMWMILAP_1408
BD08662	754423	WMWMILAP_1408

BD08663	754423	WMWMILAP_1408
BD08664	754423	WMWMILAP_1408
BD08665	754423	WMWMILAP_1408
BD08666	754423	WMWMILAP_1408
BD08667	754423	WMWMILAP_1408
BD08668	754423	WMWMILAP_1408
BD08669	754423	WMWMILAP_1408
BD08670	754423	WMWMILAP_1408
BD08671	754424	WMWMILAP_1408
BD08672	754424	WMWMILAP_1408
BD08673	754424	WMWMILAP_1408
BD08674	754424	WMWMILAP_1408
BD08675	754424	WMWMILAP_1408
BD08676	754424	WMWMILAP_1408
BD08677	754424	WMWMILAP_1408
BD08678	754424	WMWMILAP_1408
BD08679	754424	WMWMILAP_1408
BD08680	754424	WMWMILAP_1408
BD08681	754425	WMWMILAP_1408
BD08682	754425	WMWMILAP_1408
BD08683	754425	WMWMILAP_1408
BD08684	754425	WMWMILAP_1408
BD08685	754425	WMWMILAP_1408
BD08686	754425	WMWMILAP_1408

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.

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

7. All samples were analyzed without a dilution.

Total Dissolved Solids

Miller Ash Pond

WMWMILAP_1408

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>
BD07879	753140	WMWMILAP_1408
BD07880	753140	WMWMILAP_1408
BD07881	753140	WMWMILAP_1408
BD07882	753140	WMWMILAP_1408
BD07883	753141	WMWMILAP_1408
BD07884	753141	WMWMILAP_1408
BD07885	753141	WMWMILAP_1408
BD07886	753141	WMWMILAP_1408
BD07887	753141	WMWMILAP_1408
BD07888	753141	WMWMILAP_1408
BD07889	753141	WMWMILAP_1408
BD07890	753141	WMWMILAP_1408
BD07891	753141	WMWMILAP_1408
BD07892	753141	WMWMILAP_1408
BD08188	753836	WMWMILAP_1408
BD08189	753836	WMWMILAP_1408
BD08190	753836	WMWMILAP_1408
BD08191	753836	WMWMILAP_1408
BD08192	753836	WMWMILAP_1408
BD08193	753836	WMWMILAP_1408
BD08194	753971	WMWMILAP_1408
BD08195	753971	WMWMILAP_1408
BD08196	753971	WMWMILAP_1408
BD08197	753971	WMWMILAP_1408
BD08198	753836	WMWMILAP_1408
BD08199	753971	WMWMILAP_1408
BD08200	753971	WMWMILAP_1408
BD08201	753971	WMWMILAP_1408
BD08202	753976	WMWMILAP_1408
BD08661	754413	WMWMILAP_1408
BD08662	754413	WMWMILAP_1408

BD08663	754413	WMWMILAP_1408
BD08664	754414	WMWMILAP_1408
BD08665	754414	WMWMILAP_1408
BD08666	754414	WMWMILAP_1408
BD08667	754414	WMWMILAP_1408
BD08668	754414	WMWMILAP_1408
BD08669	754414	WMWMILAP_1408
BD08670	754414	WMWMILAP_1408
BD08671	754414	WMWMILAP_1408
BD08672	754414	WMWMILAP_1408
BD08673	754607	WMWMILAP_1408
BD08674	754607	WMWMILAP_1408
BD08675	754607	WMWMILAP_1408
BD08676	754607	WMWMILAP_1408
BD08677	754414	WMWMILAP_1408
BD08678	754607	WMWMILAP_1408
BD08679	754607	WMWMILAP_1408
BD08680	754607	WMWMILAP_1408
BD08681	754607	WMWMILAP_1408
BD08682	754607	WMWMILAP_1408
BD08683	754607	WMWMILAP_1408
BD08684	754608	WMWMILAP_1408
BD08685	754608	WMWMILAP_1408
BD08686	754608	WMWMILAP_1408

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, and RPD was $\leq 10\%$.
- 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 $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BD08189
 - BD08197
 - BD08201
 - BD08663
 - BD08670

Case Narrative

- BD08675
- BD08682

Alkalinity

Miller Ash Pond

WMWMILAP_1408

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>
BD07879	754014, 754015, 754016	WMWMILAP_1408
BD07880	754014, 754015, 754016	WMWMILAP_1408
BD07881	754014, 754015, 754016	WMWMILAP_1408
BD07882	754014, 754015, 754016	WMWMILAP_1408
BD07883	754014, 754015, 754016	WMWMILAP_1408
BD07884	754014, 754015, 754016	WMWMILAP_1408
BD07885	754014, 754015, 754016	WMWMILAP_1408
BD07886	754014, 754015, 754016	WMWMILAP_1408
BD07887	754014, 754015, 754016	WMWMILAP_1408
BD07888	754014, 754015, 754016	WMWMILAP_1408
BD07889	754014, 754015, 754016	WMWMILAP_1408
BD07890	754014, 754015, 754016	WMWMILAP_1408
BD07891	754014, 754015, 754016	WMWMILAP_1408
BD07892	754014, 754015, 754016	WMWMILAP_1408
BD08188	754447, 754448, 754449	WMWMILAP_1408
BD08190	754447, 754448, 754449	WMWMILAP_1408
BD08191	754447, 754448, 754449	WMWMILAP_1408
BD08192	754853, 754854, 754855	WMWMILAP_1408
BD08193	754853, 754854, 754855	WMWMILAP_1408
BD08194	754853, 754854, 754855	WMWMILAP_1408
BD08195	754853, 754854, 754855	WMWMILAP_1408
BD08196	754853, 754854, 754855	WMWMILAP_1408
BD08198	754447, 754448, 754449	WMWMILAP_1408
BD08199	754853, 754854, 754855	WMWMILAP_1408
BD08200	754853, 754854, 754855	WMWMILAP_1408
BD08202	754853, 754854, 754855	WMWMILAP_1408
BD08661	755164, 755165, 755166	WMWMILAP_1408
BD08662	755164, 755165, 755166	WMWMILAP_1408
BD08664	755164, 755165, 755166	WMWMILAP_1408
BD08665	755164, 755165, 755166	WMWMILAP_1408
BD08666	755164, 755165, 755166	WMWMILAP_1408

BD08667	755164, 755165, 755166	WMWMILAP_1408
BD08668	755164, 755165, 755166	WMWMILAP_1408
BD08669	755164, 755165, 755166	WMWMILAP_1408
BD08671	755388, 755389, 755390	WMWMILAP_1408
BD08672	755388, 755389, 755390	WMWMILAP_1408
BD08673	755388, 755389, 755390	WMWMILAP_1408
BD08674	755388, 755389, 755390	WMWMILAP_1408
BD08676	755388, 755389, 755390	WMWMILAP_1408
BD08677	755164, 755165, 755166	WMWMILAP_1408
BD08678	755164, 755165, 755166	WMWMILAP_1408
BD08679	755164, 755165, 755166	WMWMILAP_1408
BD08680	755164, 755165, 755166	WMWMILAP_1408
BD08681	755388, 755389, 755390	WMWMILAP_1408
BD08683	755388, 755389, 755390	WMWMILAP_1408
BD08684	755388, 755389, 755390	WMWMILAP_1408
BD08685	755388, 755389, 755390	WMWMILAP_1408
BD08686	755164, 755165, 755166	WMWMILAP_1408

4. All of the above samples were analyzed and prepared by Standard Method 2320B.
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:

- 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.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:

- | | | | |
|-----------|-----------|-----------|-----------|
| • BD07883 | • BD08196 | • BD08667 | • BD08681 |
| • BD07887 | • BD08198 | • BD08669 | • BD08683 |
| • BD08188 | • BD08199 | • BD08671 | • BD08684 |
| • BD08190 | • BD08202 | • BD08672 | • BD08685 |
| • BD08191 | • BD08661 | • BD08673 | • BD08686 |
| • BD08192 | • BD08662 | • BD08674 | |
| • BD08193 | • BD08664 | • BD08677 | |
| • BD08194 | • BD08665 | • BD08678 | |
| • BD08195 | • BD08666 | • BD08680 | |

Anions

Miller Ash Pond

WMWMILAP_1408

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>
BD07879	753603, 754039, 753924	WMWMILAP_1408
BD07880	753603, 754039, 753924	WMWMILAP_1408
BD07881	753603, 754039, 753924	WMWMILAP_1408
BD07882	753603, 754039, 753924	WMWMILAP_1408
BD07883	753603, 754039, 753924	WMWMILAP_1408
BD07884	753603, 754039, 753924	WMWMILAP_1408
BD07885	753603, 754039, 753924	WMWMILAP_1408
BD07886	753603, 754039, 753924	WMWMILAP_1408
BD07887	753603, 754039, 753924	WMWMILAP_1408
BD07888	753604, 754040, 753925	WMWMILAP_1408
BD07889	753604, 754040, 753925	WMWMILAP_1408
BD07890	753604, 754040, 753925	WMWMILAP_1408
BD07891	753604, 754040, 753925	WMWMILAP_1408
BD07892	753604, 754040, 753925	WMWMILAP_1408
BD08188	753982, 754040, 753925	WMWMILAP_1408
BD08189	753982, 754040, 753925	WMWMILAP_1408
BD08190	753982, 754040, 753925	WMWMILAP_1408
BD08191	753982, 754040, 753925	WMWMILAP_1408
BD08192	753982, 754040, 753925	WMWMILAP_1408
BD08193	753982, 754041, 753926	WMWMILAP_1408
BD08194	753982, 754041, 753926	WMWMILAP_1408
BD08195	753982, 754041, 753926	WMWMILAP_1408
BD08196	753982, 754041, 753926	WMWMILAP_1408
BD08197	753982, 754041, 753926	WMWMILAP_1408
BD08198	753983, 754041, 753926	WMWMILAP_1408
BD08199	753983, 754041, 753926	WMWMILAP_1408
BD08200	753983, 754041, 753926	WMWMILAP_1408
BD08201	753983, 754041, 753926	WMWMILAP_1408
BD08202	753983, 754041, 753926	WMWMILAP_1408
BD08661	755056, 755053, 755785	WMWMILAP_1408
BD08662	755056, 755053, 755785	WMWMILAP_1408

BD08663	755056, 755053, 755785	WMWMILAP_1408
BD08664	755056, 755053, 755785	WMWMILAP_1408
BD08665	755056, 755053, 755785	WMWMILAP_1408
BD08666	755056, 755053, 755785	WMWMILAP_1408
BD08667	755056, 755053, 755785	WMWMILAP_1408
BD08668	755056, 755053, 755785	WMWMILAP_1408
BD08669	755056, 755053, 755785	WMWMILAP_1408
BD08670	755056, 755053, 755786	WMWMILAP_1408
BD08671	755057, 755054, 755786	WMWMILAP_1408
BD08672	755057, 755054, 755786	WMWMILAP_1408
BD08673	755057, 755054, 755786	WMWMILAP_1408
BD08674	755057, 755054, 755786	WMWMILAP_1408
BD08675	755057, 755054, 755786	WMWMILAP_1408
BD08676	755057, 755054, 755786	WMWMILAP_1408
BD08677	755057, 755054, 755786	WMWMILAP_1408
BD08678	755057, 755054, 755786	WMWMILAP_1408
BD08679	755057, 755054, 755786	WMWMILAP_1408
BD08680	755057, 755054, 755787	WMWMILAP_1408
BD08681	755059, 755055, 755787	WMWMILAP_1408
BD08682	755059, 755055, 755787	WMWMILAP_1408
BD08683	755059, 755055, 755787	WMWMILAP_1408
BD08684	755059, 755055, 755787	WMWMILAP_1408
BD08685	755059, 755055, 755787	WMWMILAP_1408
BD08686	755059, 755055, 755787	WMWMILAP_1408

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 half 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.

- 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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each 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>
BD07880	Sulfate	10
BD07881	Sulfate	10
BD07882	Sulfate	2
BD07883	Chloride, Sulfate	2, 40
BD07884	Chloride, Sulfate	3, 16
BD07885	Chloride, Sulfate	3, 16
BD07887	Sulfate	50
BD07888	Chloride, Sulfate	5, 10
BD07889	Sulfate	32
BD07890	Sulfate	16
BD07891	Sulfate	16
BD07892	Sulfate	4
BD08188	Chloride, Sulfate	8, 20
BD08190	Chloride, Sulfate	2, 16
BD08191	Chloride, Sulfate	8, 12
BD08193	Chloride, Sulfate	2, 40
BD08194	Chloride, Sulfate	2, 40
BD08195	Chloride, Sulfate	3, 32
BD08196	Chloride, Sulfate	2, 40

Case Narrative

BD08198	Sulfate	20
BD08199	Chloride, Sulfate	40, 32
BD08200	Chloride, Sulfate	5, 5
BD08202	Chloride, Sulfate	5, 50
BD08661	Chloride, Sulfate	200, 3
BD08664	Chloride, Sulfate	5, 20
BD08665	Sulfate	25
BD08666	Chloride, Sulfate	8, 8
BD08667	Sulfate	16
BD08668	Sulfate	2
BD08669	Chloride, Sulfate	2, 8
BD08671	Sulfate	50
BD08672	Sulfate	25
BD08673	Sulfate	32
BD08674	Sulfate	20
BD08676	Chloride	5
BD08677	Chloride, Sulfate	40, 8
BD08678	Chloride, Sulfate	40, 8
BD08679	Sulfate	8
BD08680	Sulfate	64
BD08681	Sulfate	32
BD08683	Chloride, Sulfate	100, 16
BD08684	Chloride, Sulfate	25, 8
BD08685	Chloride, Sulfate	25, 8
BD08686	Sulfate	25

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

Nitrate-Nitrite

Miller Ash Pond

WMWMILAP_1408

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>
BD07879	753572	WMWMILAP_1408
BD07880	753572	WMWMILAP_1408
BD07881	753572	WMWMILAP_1408
BD07882	753572	WMWMILAP_1408
BD07883	753572	WMWMILAP_1408
BD07884	753572	WMWMILAP_1408
BD07885	753572	WMWMILAP_1408
BD07886	753572	WMWMILAP_1408
BD07887	753572	WMWMILAP_1408
BD07888	753572	WMWMILAP_1408
BD07889	753573	WMWMILAP_1408
BD07890	753573	WMWMILAP_1408
BD07891	753573	WMWMILAP_1408
BD07892	753573	WMWMILAP_1408
BD08188	753855	WMWMILAP_1408
BD08189	753855	WMWMILAP_1408
BD08190	753855	WMWMILAP_1408
BD08191	753855	WMWMILAP_1408
BD08192	753855	WMWMILAP_1408
BD08193	753855	WMWMILAP_1408
BD08194	753855	WMWMILAP_1408
BD08195	753855	WMWMILAP_1408
BD08196	753855	WMWMILAP_1408
BD08197	753855	WMWMILAP_1408
BD08198	753856	WMWMILAP_1408
BD08199	753856	WMWMILAP_1408
BD08200	753856	WMWMILAP_1408
BD08201	753856	WMWMILAP_1408
BD08202	753856	WMWMILAP_1408
BD08661	754475	WMWMILAP_1408
BD08662	754475	WMWMILAP_1408

BD08663	754475	WMWMILAP_1408
BD08664	754475	WMWMILAP_1408
BD08665	754475	WMWMILAP_1408
BD08666	754475	WMWMILAP_1408
BD08667	754475	WMWMILAP_1408
BD08668	754475	WMWMILAP_1408
BD08669	754475	WMWMILAP_1408
BD08670	754475	WMWMILAP_1408
BD08671	754476	WMWMILAP_1408
BD08672	754476	WMWMILAP_1408
BD08673	754476	WMWMILAP_1408
BD08674	754476	WMWMILAP_1408
BD08675	754476	WMWMILAP_1408
BD08676	754476	WMWMILAP_1408
BD08677	754476	WMWMILAP_1408
BD08678	754476	WMWMILAP_1408
BD08679	754476	WMWMILAP_1408
BD08680	754476	WMWMILAP_1408
BD08681	754477	WMWMILAP_1408
BD08682	754477	WMWMILAP_1408
BD08683	754477	WMWMILAP_1408
BD08684	754477	WMWMILAP_1408
BD08685	754477	WMWMILAP_1408
BD08686	754477	WMWMILAP_1408

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
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:

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

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
 - Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.
7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Miller Ash Pond

WMWMILAP_1408

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>
BD07879	753156	WMWMILAP_1408
BD07880	753156	WMWMILAP_1408
BD07881	753156	WMWMILAP_1408
BD07882	753156	WMWMILAP_1408
BD07883	753156	WMWMILAP_1408
BD07884	753156	WMWMILAP_1408
BD07885	753156	WMWMILAP_1408
BD07886	753156	WMWMILAP_1408
BD07887	753156	WMWMILAP_1408
BD07888	753156	WMWMILAP_1408
BD07889	753157	WMWMILAP_1408
BD07890	753157	WMWMILAP_1408
BD07891	753157	WMWMILAP_1408
BD07892	753157	WMWMILAP_1408
BD08188	753966	WMWMILAP_1408
BD08189	753966	WMWMILAP_1408
BD08190	753966	WMWMILAP_1408
BD08191	753966	WMWMILAP_1408
BD08192	753966	WMWMILAP_1408
BD08193	753966	WMWMILAP_1408
BD08194	753966	WMWMILAP_1408
BD08195	753966	WMWMILAP_1408
BD08196	753966	WMWMILAP_1408
BD08197	753966	WMWMILAP_1408
BD08198	753967	WMWMILAP_1408
BD08199	753967	WMWMILAP_1408
BD08200	753967	WMWMILAP_1408
BD08201	753967	WMWMILAP_1408
BD08202	753967	WMWMILAP_1408
BD08661	754630	WMWMILAP_1408
BD08662	754630	WMWMILAP_1408

BD08663	754630	WMWMILAP_1408
BD08664	754630	WMWMILAP_1408
BD08665	754630	WMWMILAP_1408
BD08666	754630	WMWMILAP_1408
BD08667	754630	WMWMILAP_1408
BD08668	754630	WMWMILAP_1408
BD08669	754630	WMWMILAP_1408
BD08670	754630	WMWMILAP_1408
BD08671	754631	WMWMILAP_1408
BD08672	754631	WMWMILAP_1408
BD08673	754631	WMWMILAP_1408
BD08674	754631	WMWMILAP_1408
BD08675	754631	WMWMILAP_1408
BD08676	754631	WMWMILAP_1408
BD08677	754631	WMWMILAP_1408
BD08678	754631	WMWMILAP_1408
BD08679	754631	WMWMILAP_1408
BD08680	754631	WMWMILAP_1408
BD08681	754632	WMWMILAP_1408
BD08682	754632	WMWMILAP_1408
BD08683	754632	WMWMILAP_1408
BD08684	754632	WMWMILAP_1408
BD08685	754632	WMWMILAP_1408
BD08686	754632	WMWMILAP_1408

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
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 criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was $<1/2RL$.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were $<1/2RL$.

Matrix Specific Quality Control Procedures:

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

Certificate Of Analysis

Description: Miller Ash Pond - MW-37H

Location Code: WMWMILAP
Collected: 4/18/23 09:23
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07879

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 11:23		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/21/23 06:22	4/24/23 11:23		1.015	38.1	mg/L	0.070035	0.406	
* Iron, Total	4/21/23 06:22	4/24/23 11:23		1.015	0.396	mg/L	0.008120	0.0406	
* Lithium, Total	4/21/23 06:22	4/24/23 11:23		1.015	0.0583	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 11:23		1.015	13.0	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 11:23		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 11:23		1	24.8	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 11:23		1.015	11.6	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 13:43		10.15	56.0	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	4/24/23 06:27	4/28/23 12:28		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/24/23 06:27	4/28/23 12:28		1.015	39.0	mg/L	0.070035	0.406	
* Iron, Dissolved	4/24/23 06:27	4/28/23 12:28		1.015	0.324	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 12:28		1.015	0.0573	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 12:28		1.015	13.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 12:28		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 12:28		1	24.0	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 12:28		1.015	11.2	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 13:41		10.15	60.4	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 10:30		1.015	0.000790	mg/L	0.000710	0.001015	J
* Aluminum, Total	4/28/23 06:47	4/28/23 09:27		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/21/23 06:22	4/21/23 10:30		1.015	0.000730	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 10:30		1.015	0.0938	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 10:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 10:30		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/21/23 06:22	4/21/23 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 10:30		1.015	0.0108	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-37H

Location Code: WMWMILAP
Collected: 4/18/23 09:23
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07879

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 10:30		1.015	1.85	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 10:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 11:38		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	0.000528	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	0.104	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	0.0123	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	2.01	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 18:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 14:46	4/21/23 14:46		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	229	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	293	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	226	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	2.62	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 11:12	4/27/23 11:12		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-37H

Location Code: WMWMILAP
Collected: 4/18/23 09:23
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07879

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:10	4/25/23 12:10		1	11.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:09	5/2/23 10:09		1	0.185	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 08:54	4/28/23 08:54		1	35.4	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/18/23 09:19	4/18/23 09:19			486.84	uS/cm			FA
pH	4/18/23 09:19	4/18/23 09:19			7.33	SU			FA
Temperature	4/18/23 09:19	4/18/23 09:19			16.98	C			FA
Turbidity	4/18/23 09:19	4/18/23 09:19			2.13	NTU			FA
Sulfide	4/18/23 09:19	4/18/23 09:19			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 09:23
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-37H

Laboratory ID Number: BD07879

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD07879	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD07888	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0971	0.0965	0.0888	0.0850 to 0.115	97.1	70.0 to 130	0.620	20.0
BD07888	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0949	0.0962	0.0939	0.0850 to 0.115	94.9	70.0 to 130	1.36	20.0
BD07888	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.103	0.101	0.0993	0.0850 to 0.115	102	70.0 to 130	1.96	20.0
BD07888	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0914	0.0917	0.0970	0.0850 to 0.115	90.7	70.0 to 130	0.328	20.0
BD07888	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.157	0.153	0.0957	0.0850 to 0.115	101	70.0 to 130	2.58	20.0
BD07888	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.138	0.135	0.0931	0.0850 to 0.115	88.6	70.0 to 130	2.20	20.0
BD07888	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.0984	0.0970	0.0989	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD07888	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0975	0.0961	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.45	20.0
BD07888	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.06	1.07	0.983	0.850 to 1.15	101	70.0 to 130	0.939	20.0
BD07888	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.10	1.12	1.04	0.850 to 1.15	105	70.0 to 130	1.80	20.0
BD07888	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0995	0.0976	0.0966	0.0850 to 0.115	99.5	70.0 to 130	1.93	20.0
BD07888	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0876	0.0873	0.0937	0.0850 to 0.115	87.6	70.0 to 130	0.343	20.0
BD07888	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	77.0	82.9	4.97	4.25 to 5.75	136	70.0 to 130	7.38	20.0
BD07888	Calcium, Total	mg/L	0.00986	0.152	5.00	74.2	80.5	4.92	4.25 to 5.75	126	70.0 to 130	8.14	20.0
BD07887	Chloride	mg/L	0.0889	1.00	10.0	15.2	15.3	10.4	9.00 to 11.0	106	80.0 to 120	0.656	20.0
BD07888	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.0981	0.0975	0.0946	0.0850 to 0.115	97.7	70.0 to 130	0.613	20.0
BD07888	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0863	0.0868	0.0919	0.0850 to 0.115	86.0	70.0 to 130	0.578	20.0
BD07888	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0995	0.0967	0.0944	0.0850 to 0.115	98.7	70.0 to 130	2.85	20.0
BD07888	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0876	0.0872	0.0924	0.0850 to 0.115	86.8	70.0 to 130	0.458	20.0
BD07887	Fluoride	mg/L	0.0422	0.125	2.50	1.98	2.04	2.48	2.25 to 2.75	74.2	80.0 to 120	2.99	20.0
BD07888	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.427	0.430	0.197	0.170 to 0.230	95.5	70.0 to 130	0.700	20.0
BD07888	Iron, Total	mg/L	0.000683	0.0176	0.2	0.499	0.503	0.202	0.170 to 0.230	96.0	70.0 to 130	0.798	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 09:23
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-37H

Laboratory ID Number: BD07879

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07888	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD07888	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0874	0.0884	0.0936	0.0850 to 0.115	87.4	70.0 to 130	1.14	20.0
BD07888	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.233	0.232	0.189	0.170 to 0.230	98.3	70.0 to 130	0.430	20.0
BD07888	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.232	0.233	0.203	0.170 to 0.230	96.9	70.0 to 130	0.430	20.0
BD07888	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	32.3	32.4	4.82	4.25 to 5.75	100	70.0 to 130	0.309	20.0
BD07888	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	33.7	34.2	5.03	4.25 to 5.75	90.0	70.0 to 130	1.47	20.0
BD07888	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.188	0.186	0.102	0.0850 to 0.115	102	70.0 to 130	1.07	20.0
BD07888	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.163	0.159	0.0931	0.0850 to 0.115	87.5	70.0 to 130	2.48	20.0
BD07888	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00399	0.00398	0.00395	0.00340 to 0.00460	99.8	70.0 to 130	0.251	20.0
BD07888	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.198	0.200	0.197	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD07888	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.202	0.207	0.200	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD07888	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	12.7	12.6	10.2	8.50 to 11.5	97.1	70.0 to 130	0.791	20.0
BD07888	Potassium, Total	mg/L	-0.0207	0.367	10.0	11.6	11.5	9.24	8.50 to 11.5	88.2	70.0 to 130	0.866	20.0
BD07888	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD07888	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0913	0.0912	0.101	0.0850 to 0.115	91.3	70.0 to 130	0.110	20.0
BD07888	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	11.1	11.1	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07888	Silicon, Total	mg/L	0.000037	0.0440	1.00	11.2	11.3	1.02	0.850 to 1.15	90.0	70.0 to 130	0.889	20.0
BD07888	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	83.9	91.0	4.69	4.25 to 5.75	152	70.0 to 130	8.12	20.0
BD07888	Sodium, Total	mg/L	0.000514	0.0880	5.00	87.8	92.1	5.01	4.25 to 5.75	166	70.0 to 130	4.78	20.0
BD07887	Sulfate	mg/L	0.140	2.0	1000	1760	1720	19.3	18.0 to 22.0	104	80.0 to 120	2.30	20.0
BD07888	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD07888	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0868	0.0868	0.0908	0.0850 to 0.115	86.8	70.0 to 130	0.00	20.0
BD07888	Total Organic Carbon	mg/L	0.0986	1.00	10.0	8.84	10.6	22.4		88.4	80.0 to 120	18.1	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/18/23 09:23

Customer ID:

Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-37H

Laboratory ID Number: BD07879

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07888	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.52	0.461	1.99	1.80 to 2.20	104	90.0 to 110	2.86	15.0
BD07882	Solids, Dissolved	mg/L	1.00	25.0			331	48.0	40.0 to 60.0			6.23	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H

Location Code: WMWMILAP
Collected: 4/18/23 10:48
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07880

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 11:26		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/21/23 06:22	4/24/23 13:46		10.15	60.3	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 11:26		1.015	2.65	mg/L	0.008120	0.0406	
* Lithium, Total	4/21/23 06:22	4/24/23 11:26		1.015	0.0264	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 11:26		1.015	33.6	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 11:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 11:26		1	34.2	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 11:26		1.015	16.0	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 11:26		1.015	26.1	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	4/24/23 06:27	4/28/23 12:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/24/23 06:27	4/28/23 13:44		10.15	67.5	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 12:31		1.015	2.63	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 12:31		1.015	0.0254	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 12:31		1.015	32.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 12:31		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 12:31		1	34.0	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 12:31		1.015	15.9	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 12:31		1.015	24.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 10:33		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 09:38		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/21/23 06:22	4/21/23 10:33		1.015	0.0112	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 10:33		1.015	0.0275	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 10:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 10:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/21/23 06:22	4/21/23 10:33		1.015	0.0000740	mg/L	0.000068	0.000203	J
* Manganese, Total	4/21/23 06:22	4/21/23 10:33		1.015	0.219	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H

Location Code: WMWMILAP
Collected: 4/18/23 10:48
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07880

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 10:33		1.015	1.49	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 10:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 11:49		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	0.0111	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	0.0292	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	0.261	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	1.61	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 18:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 14:48	4/21/23 14:48		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	139	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	332	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	139	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 11:26	4/27/23 11:26		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H

Location Code: WMWMILAP
Collected: 4/18/23 10:48
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07880

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:11	4/25/23 12:11		1	2.26	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:10	5/2/23 10:10		1	0.151	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 09:07	4/28/23 09:07		10	197	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/18/23 10:45	4/18/23 10:45			609.04	uS/cm			FA
pH	4/18/23 10:45	4/18/23 10:45			6.57	SU			FA
Temperature	4/18/23 10:45	4/18/23 10:45			19.32	C			FA
Turbidity	4/18/23 10:45	4/18/23 10:45			2.76	NTU			FA
Sulfide	4/18/23 10:45	4/18/23 10:45			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 10:48
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-35H

Laboratory ID Number: BD07880

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD07879	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD07888	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0971	0.0965	0.0888	0.0850 to 0.115	97.1	70.0 to 130	0.620	20.0
BD07888	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0949	0.0962	0.0939	0.0850 to 0.115	94.9	70.0 to 130	1.36	20.0
BD07888	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.103	0.101	0.0993	0.0850 to 0.115	102	70.0 to 130	1.96	20.0
BD07888	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0914	0.0917	0.0970	0.0850 to 0.115	90.7	70.0 to 130	0.328	20.0
BD07888	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.157	0.153	0.0957	0.0850 to 0.115	101	70.0 to 130	2.58	20.0
BD07888	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.138	0.135	0.0931	0.0850 to 0.115	88.6	70.0 to 130	2.20	20.0
BD07888	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.0984	0.0970	0.0989	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD07888	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0975	0.0961	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.45	20.0
BD07888	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.06	1.07	0.983	0.850 to 1.15	101	70.0 to 130	0.939	20.0
BD07888	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.10	1.12	1.04	0.850 to 1.15	105	70.0 to 130	1.80	20.0
BD07888	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0995	0.0976	0.0966	0.0850 to 0.115	99.5	70.0 to 130	1.93	20.0
BD07888	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0876	0.0873	0.0937	0.0850 to 0.115	87.6	70.0 to 130	0.343	20.0
BD07888	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	77.0	82.9	4.97	4.25 to 5.75	136	70.0 to 130	7.38	20.0
BD07888	Calcium, Total	mg/L	0.00986	0.152	5.00	74.2	80.5	4.92	4.25 to 5.75	126	70.0 to 130	8.14	20.0
BD07887	Chloride	mg/L	0.0889	1.00	10.0	15.2	15.3	10.4	9.00 to 11.0	106	80.0 to 120	0.656	20.0
BD07888	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.0981	0.0975	0.0946	0.0850 to 0.115	97.7	70.0 to 130	0.613	20.0
BD07888	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0863	0.0868	0.0919	0.0850 to 0.115	86.0	70.0 to 130	0.578	20.0
BD07888	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0995	0.0967	0.0944	0.0850 to 0.115	98.7	70.0 to 130	2.85	20.0
BD07888	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0876	0.0872	0.0924	0.0850 to 0.115	86.8	70.0 to 130	0.458	20.0
BD07887	Fluoride	mg/L	0.0422	0.125	2.50	1.98	2.04	2.48	2.25 to 2.75	74.2	80.0 to 120	2.99	20.0
BD07888	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.427	0.430	0.197	0.170 to 0.230	95.5	70.0 to 130	0.700	20.0
BD07888	Iron, Total	mg/L	0.000683	0.0176	0.2	0.499	0.503	0.202	0.170 to 0.230	96.0	70.0 to 130	0.798	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 10:48
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-35H

Laboratory ID Number: BD07880

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07888	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD07888	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0874	0.0884	0.0936	0.0850 to 0.115	87.4	70.0 to 130	1.14	20.0
BD07888	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.233	0.232	0.189	0.170 to 0.230	98.3	70.0 to 130	0.430	20.0
BD07888	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.232	0.233	0.203	0.170 to 0.230	96.9	70.0 to 130	0.430	20.0
BD07888	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	32.3	32.4	4.82	4.25 to 5.75	100	70.0 to 130	0.309	20.0
BD07888	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	33.7	34.2	5.03	4.25 to 5.75	90.0	70.0 to 130	1.47	20.0
BD07888	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.188	0.186	0.102	0.0850 to 0.115	102	70.0 to 130	1.07	20.0
BD07888	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.163	0.159	0.0931	0.0850 to 0.115	87.5	70.0 to 130	2.48	20.0
BD07888	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00399	0.00398	0.00395	0.00340 to 0.00460	99.8	70.0 to 130	0.251	20.0
BD07888	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.198	0.200	0.197	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD07888	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.202	0.207	0.200	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD07888	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	12.7	12.6	10.2	8.50 to 11.5	97.1	70.0 to 130	0.791	20.0
BD07888	Potassium, Total	mg/L	-0.0207	0.367	10.0	11.6	11.5	9.24	8.50 to 11.5	88.2	70.0 to 130	0.866	20.0
BD07888	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD07888	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0913	0.0912	0.101	0.0850 to 0.115	91.3	70.0 to 130	0.110	20.0
BD07888	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	11.1	11.1	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07888	Silicon, Total	mg/L	0.000037	0.0440	1.00	11.2	11.3	1.02	0.850 to 1.15	90.0	70.0 to 130	0.889	20.0
BD07888	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	83.9	91.0	4.69	4.25 to 5.75	152	70.0 to 130	8.12	20.0
BD07888	Sodium, Total	mg/L	0.000514	0.0880	5.00	87.8	92.1	5.01	4.25 to 5.75	166	70.0 to 130	4.78	20.0
BD07887	Sulfate	mg/L	0.140	2.0	1000	1760	1720	19.3	18.0 to 22.0	104	80.0 to 120	2.30	20.0
BD07888	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD07888	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0868	0.0868	0.0908	0.0850 to 0.115	86.8	70.0 to 130	0.00	20.0
BD07888	Total Organic Carbon	mg/L	0.0986	1.00	10.0	8.84	10.6	22.4		88.4	80.0 to 120	18.1	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/18/23 10:48

Customer ID:

Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-35H

Laboratory ID Number: BD07880

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07888	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.52	0.461	1.99	1.80 to 2.20	104	90.0 to 110	2.86	15.0
BD07882	Solids, Dissolved	mg/L	1.00	25.0			331	48.0	40.0 to 60.0			6.23	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H Dup

Location Code: WMWMILAP
Collected: 4/18/23 10:48
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07881

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 11:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/21/23 06:22	4/24/23 13:49		10.15	59.2	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 11:29		1.015	2.65	mg/L	0.008120	0.0406	
* Lithium, Total	4/21/23 06:22	4/24/23 11:29		1.015	0.0265	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 11:29		1.015	33.7	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 11:29		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 11:29		1	34.5	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 11:29		1.015	16.1	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 11:29		1.015	26.2	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/24/23 06:27	4/28/23 12:35		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/24/23 06:27	4/28/23 13:47		10.15	70.4	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 12:35		1.015	2.61	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 12:35		1.015	0.0254	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 12:35		1.015	32.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 12:35		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 12:35		1	33.8	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 12:35		1.015	15.8	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 12:35		1.015	25.0	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 10:37		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 09:41		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/21/23 06:22	4/21/23 10:37		1.015	0.0108	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 10:37		1.015	0.0280	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 10:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 10:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 10:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 10:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/21/23 06:22	4/21/23 10:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 10:37		1.015	0.219	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H Dup

Location Code: WMWMILAP
Collected: 4/18/23 10:48
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07881

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 10:37		1.015	1.50	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 10:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 10:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 11:52		1.015	0.0117	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	0.0111	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	0.0297	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	0.257	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	1.61	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 18:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 14:49	4/21/23 14:49		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	142	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	370	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	142	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 11:41	4/27/23 11:41		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H Dup

Location Code: WMWMILAP
Collected: 4/18/23 10:48
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07881

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:12	4/25/23 12:12		1	2.28	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:11	5/2/23 10:11		1	0.146	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 09:08	4/28/23 09:08		10	191	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/18/23 10:45	4/18/23 10:45			609.04	uS/cm			FA
pH	4/18/23 10:45	4/18/23 10:45			6.57	SU			FA
Temperature	4/18/23 10:45	4/18/23 10:45			19.32	C			FA
Turbidity	4/18/23 10:45	4/18/23 10:45			2.76	NTU			FA
Sulfide	4/18/23 10:45	4/18/23 10:45			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 10:48
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-35H Dup

Laboratory ID Number: BD07881

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD07879	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD07888	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0971	0.0965	0.0888	0.0850 to 0.115	97.1	70.0 to 130	0.620	20.0
BD07888	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0949	0.0962	0.0939	0.0850 to 0.115	94.9	70.0 to 130	1.36	20.0
BD07888	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.103	0.101	0.0993	0.0850 to 0.115	102	70.0 to 130	1.96	20.0
BD07888	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0914	0.0917	0.0970	0.0850 to 0.115	90.7	70.0 to 130	0.328	20.0
BD07888	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.157	0.153	0.0957	0.0850 to 0.115	101	70.0 to 130	2.58	20.0
BD07888	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.138	0.135	0.0931	0.0850 to 0.115	88.6	70.0 to 130	2.20	20.0
BD07888	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.0984	0.0970	0.0989	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD07888	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0975	0.0961	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.45	20.0
BD07888	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.06	1.07	0.983	0.850 to 1.15	101	70.0 to 130	0.939	20.0
BD07888	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.10	1.12	1.04	0.850 to 1.15	105	70.0 to 130	1.80	20.0
BD07888	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0995	0.0976	0.0966	0.0850 to 0.115	99.5	70.0 to 130	1.93	20.0
BD07888	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0876	0.0873	0.0937	0.0850 to 0.115	87.6	70.0 to 130	0.343	20.0
BD07888	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	77.0	82.9	4.97	4.25 to 5.75	136	70.0 to 130	7.38	20.0
BD07888	Calcium, Total	mg/L	0.00986	0.152	5.00	74.2	80.5	4.92	4.25 to 5.75	126	70.0 to 130	8.14	20.0
BD07887	Chloride	mg/L	0.0889	1.00	10.0	15.2	15.3	10.4	9.00 to 11.0	106	80.0 to 120	0.656	20.0
BD07888	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.0981	0.0975	0.0946	0.0850 to 0.115	97.7	70.0 to 130	0.613	20.0
BD07888	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0863	0.0868	0.0919	0.0850 to 0.115	86.0	70.0 to 130	0.578	20.0
BD07888	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0995	0.0967	0.0944	0.0850 to 0.115	98.7	70.0 to 130	2.85	20.0
BD07888	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0876	0.0872	0.0924	0.0850 to 0.115	86.8	70.0 to 130	0.458	20.0
BD07887	Fluoride	mg/L	0.0422	0.125	2.50	1.98	2.04	2.48	2.25 to 2.75	74.2	80.0 to 120	2.99	20.0
BD07888	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.427	0.430	0.197	0.170 to 0.230	95.5	70.0 to 130	0.700	20.0
BD07888	Iron, Total	mg/L	0.000683	0.0176	0.2	0.499	0.503	0.202	0.170 to 0.230	96.0	70.0 to 130	0.798	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 10:48
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-35H Dup

Laboratory ID Number: BD07881

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07888	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD07888	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0874	0.0884	0.0936	0.0850 to 0.115	87.4	70.0 to 130	1.14	20.0
BD07888	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.233	0.232	0.189	0.170 to 0.230	98.3	70.0 to 130	0.430	20.0
BD07888	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.232	0.233	0.203	0.170 to 0.230	96.9	70.0 to 130	0.430	20.0
BD07888	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	32.3	32.4	4.82	4.25 to 5.75	100	70.0 to 130	0.309	20.0
BD07888	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	33.7	34.2	5.03	4.25 to 5.75	90.0	70.0 to 130	1.47	20.0
BD07888	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.188	0.186	0.102	0.0850 to 0.115	102	70.0 to 130	1.07	20.0
BD07888	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.163	0.159	0.0931	0.0850 to 0.115	87.5	70.0 to 130	2.48	20.0
BD07888	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00399	0.00398	0.00395	0.00340 to 0.00460	99.8	70.0 to 130	0.251	20.0
BD07888	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.198	0.200	0.197	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD07888	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.202	0.207	0.200	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD07888	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	12.7	12.6	10.2	8.50 to 11.5	97.1	70.0 to 130	0.791	20.0
BD07888	Potassium, Total	mg/L	-0.0207	0.367	10.0	11.6	11.5	9.24	8.50 to 11.5	88.2	70.0 to 130	0.866	20.0
BD07888	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD07888	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0913	0.0912	0.101	0.0850 to 0.115	91.3	70.0 to 130	0.110	20.0
BD07888	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	11.1	11.1	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07888	Silicon, Total	mg/L	0.000037	0.0440	1.00	11.2	11.3	1.02	0.850 to 1.15	90.0	70.0 to 130	0.889	20.0
BD07888	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	83.9	91.0	4.69	4.25 to 5.75	152	70.0 to 130	8.12	20.0
BD07888	Sodium, Total	mg/L	0.000514	0.0880	5.00	87.8	92.1	5.01	4.25 to 5.75	166	70.0 to 130	4.78	20.0
BD07887	Sulfate	mg/L	0.140	2.0	1000	1760	1720	19.3	18.0 to 22.0	104	80.0 to 120	2.30	20.0
BD07888	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD07888	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0868	0.0868	0.0908	0.0850 to 0.115	86.8	70.0 to 130	0.00	20.0
BD07888	Total Organic Carbon	mg/L	0.0986	1.00	10.0	8.84	10.6	22.4		88.4	80.0 to 120	18.1	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/18/23 10:48

Customer ID:

Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-35H Dup

Laboratory ID Number: BD07881

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07888	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.52	0.461	1.99	1.80 to 2.20	104	90.0 to 110	2.86	15.0
BD07882	Solids, Dissolved	mg/L	1.00	25.0			331	48.0	40.0 to 60.0			6.23	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-17H

Location Code: WMWMILAP
Collected: 4/19/23 10:03
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07882

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 11:32		1.015	0.0834	mg/L	0.030000	0.1015	J
* Calcium, Total	4/21/23 06:22	4/24/23 13:52		10.15	40.8	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 11:32		1.015	0.859	mg/L	0.008120	0.0406	
* Lithium, Total	4/21/23 06:22	4/24/23 11:32		1.015	0.0663	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 11:32		1.015	15.4	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 11:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 11:32		1	28.0	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 11:32		1.015	13.1	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 13:52		10.15	96.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/24/23 06:27	4/28/23 12:38		1.015	0.0834	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/24/23 06:27	4/28/23 13:50		10.15	46.5	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 12:38		1.015	0.599	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 12:38		1.015	0.0658	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 12:38		1.015	14.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 12:38		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 12:38		1	27.4	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 12:38		1.015	12.8	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 13:50		10.15	105	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 10:40		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 09:45		1.015	0.0281	mg/L	0.009135	0.05075	J
* Arsenic, Total	4/21/23 06:22	4/21/23 10:40		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	4/21/23 06:22	4/21/23 10:40		1.015	0.628	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 10:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 10:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 10:40		1.015	0.0000900	mg/L	0.000068	0.000203	J
* Lead, Total	4/21/23 06:22	4/21/23 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 10:40		1.015	0.0601	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-17H

Location Code: WMWMILAP
Collected: 4/19/23 10:03
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07882

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 10:40		1.015	1.28	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 10:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 11:56		1.015	0.0186	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	0.651	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	0.0636	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	1.37	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 14:51	4/21/23 14:51		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	303	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	311	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	301	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	1.83	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 11:56	4/27/23 11:56		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-17H

Location Code: WMWMILAP
Collected: 4/19/23 10:03
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07882

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:14	4/25/23 12:14		1	6.40	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:12	5/2/23 10:12		1	0.141	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 09:09	4/28/23 09:09		2	56.1	mg/L	1.2	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/19/23 10:00	4/19/23 10:00			628.54	uS/cm			FA
pH	4/19/23 10:00	4/19/23 10:00			6.98	SU			FA
Temperature	4/19/23 10:00	4/19/23 10:00			16.76	C			FA
Turbidity	4/19/23 10:00	4/19/23 10:00			4.2	NTU			FA
Sulfide	4/19/23 10:00	4/19/23 10:00			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 10:03
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-17H

Laboratory ID Number: BD07882

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD07879	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD07888	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0971	0.0965	0.0888	0.0850 to 0.115	97.1	70.0 to 130	0.620	20.0
BD07888	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0949	0.0962	0.0939	0.0850 to 0.115	94.9	70.0 to 130	1.36	20.0
BD07888	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.103	0.101	0.0993	0.0850 to 0.115	102	70.0 to 130	1.96	20.0
BD07888	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0914	0.0917	0.0970	0.0850 to 0.115	90.7	70.0 to 130	0.328	20.0
BD07888	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.157	0.153	0.0957	0.0850 to 0.115	101	70.0 to 130	2.58	20.0
BD07888	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.138	0.135	0.0931	0.0850 to 0.115	88.6	70.0 to 130	2.20	20.0
BD07888	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.0984	0.0970	0.0989	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD07888	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0975	0.0961	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.45	20.0
BD07888	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.06	1.07	0.983	0.850 to 1.15	101	70.0 to 130	0.939	20.0
BD07888	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.10	1.12	1.04	0.850 to 1.15	105	70.0 to 130	1.80	20.0
BD07888	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0995	0.0976	0.0966	0.0850 to 0.115	99.5	70.0 to 130	1.93	20.0
BD07888	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0876	0.0873	0.0937	0.0850 to 0.115	87.6	70.0 to 130	0.343	20.0
BD07888	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	77.0	82.9	4.97	4.25 to 5.75	136	70.0 to 130	7.38	20.0
BD07888	Calcium, Total	mg/L	0.00986	0.152	5.00	74.2	80.5	4.92	4.25 to 5.75	126	70.0 to 130	8.14	20.0
BD07887	Chloride	mg/L	0.0889	1.00	10.0	15.2	15.3	10.4	9.00 to 11.0	106	80.0 to 120	0.656	20.0
BD07888	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.0981	0.0975	0.0946	0.0850 to 0.115	97.7	70.0 to 130	0.613	20.0
BD07888	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0863	0.0868	0.0919	0.0850 to 0.115	86.0	70.0 to 130	0.578	20.0
BD07888	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0995	0.0967	0.0944	0.0850 to 0.115	98.7	70.0 to 130	2.85	20.0
BD07888	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0876	0.0872	0.0924	0.0850 to 0.115	86.8	70.0 to 130	0.458	20.0
BD07887	Fluoride	mg/L	0.0422	0.125	2.50	1.98	2.04	2.48	2.25 to 2.75	74.2	80.0 to 120	2.99	20.0
BD07888	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.427	0.430	0.197	0.170 to 0.230	95.5	70.0 to 130	0.700	20.0
BD07888	Iron, Total	mg/L	0.000683	0.0176	0.2	0.499	0.503	0.202	0.170 to 0.230	96.0	70.0 to 130	0.798	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 10:03
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-17H

Laboratory ID Number: BD07882

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07888	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD07888	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0874	0.0884	0.0936	0.0850 to 0.115	87.4	70.0 to 130	1.14	20.0
BD07888	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.233	0.232	0.189	0.170 to 0.230	98.3	70.0 to 130	0.430	20.0
BD07888	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.232	0.233	0.203	0.170 to 0.230	96.9	70.0 to 130	0.430	20.0
BD07888	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	32.3	32.4	4.82	4.25 to 5.75	100	70.0 to 130	0.309	20.0
BD07888	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	33.7	34.2	5.03	4.25 to 5.75	90.0	70.0 to 130	1.47	20.0
BD07888	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.188	0.186	0.102	0.0850 to 0.115	102	70.0 to 130	1.07	20.0
BD07888	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.163	0.159	0.0931	0.0850 to 0.115	87.5	70.0 to 130	2.48	20.0
BD07888	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00399	0.00398	0.00395	0.00340 to 0.00460	99.8	70.0 to 130	0.251	20.0
BD07888	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.198	0.200	0.197	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD07888	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.202	0.207	0.200	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD07888	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	12.7	12.6	10.2	8.50 to 11.5	97.1	70.0 to 130	0.791	20.0
BD07888	Potassium, Total	mg/L	-0.0207	0.367	10.0	11.6	11.5	9.24	8.50 to 11.5	88.2	70.0 to 130	0.866	20.0
BD07888	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD07888	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0913	0.0912	0.101	0.0850 to 0.115	91.3	70.0 to 130	0.110	20.0
BD07888	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	11.1	11.1	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07888	Silicon, Total	mg/L	0.000037	0.0440	1.00	11.2	11.3	1.02	0.850 to 1.15	90.0	70.0 to 130	0.889	20.0
BD07888	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	83.9	91.0	4.69	4.25 to 5.75	152	70.0 to 130	8.12	20.0
BD07888	Sodium, Total	mg/L	0.000514	0.0880	5.00	87.8	92.1	5.01	4.25 to 5.75	166	70.0 to 130	4.78	20.0
BD07887	Sulfate	mg/L	0.140	2.0	1000	1760	1720	19.3	18.0 to 22.0	104	80.0 to 120	2.30	20.0
BD07888	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD07888	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0868	0.0868	0.0908	0.0850 to 0.115	86.8	70.0 to 130	0.00	20.0
BD07888	Total Organic Carbon	mg/L	0.0986	1.00	10.0	8.84	10.6	22.4		88.4	80.0 to 120	18.1	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 10:03
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-17H

Laboratory ID Number: BD07882

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07888	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.52	0.461	1.99	1.80 to 2.20	104	90.0 to 110	2.86	15.0
BD07882	Solids, Dissolved	mg/L	1.00	25.0			331	48.0	40.0 to 60.0			6.23	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20H

Location Code: WMWMLAP
Collected: 4/19/23 12:16
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07883

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 11:35		1.015	0.864	mg/L	0.030000	0.1015	
* Calcium, Total	4/21/23 06:22	4/24/23 13:56		10.15	197	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 11:35		1.015	3.64	mg/L	0.008120	0.0406	
* Lithium, Total	4/21/23 06:22	4/24/23 11:35		1.015	0.212	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 13:56		10.15	41.5	mg/L	0.21315	4.06	
* Molybdenum, Total	4/21/23 06:22	4/24/23 11:35		1.015	0.0750	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 11:35		1	10.4	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 11:35		1.015	4.88	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 13:56		10.15	102	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/24/23 06:27	4/28/23 12:41		1.015	0.834	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/24/23 06:27	4/28/23 13:54		10.15	222	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 12:41		1.015	3.98	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 12:41		1.015	0.205	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 12:41		1.015	39.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 12:41		1.015	0.0798	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 12:41		1	9.89	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 12:41		1.015	4.62	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 13:54		10.15	108	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 10:44		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 09:48		1.015	0.0665	mg/L	0.009135	0.05075	
* Arsenic, Total	4/21/23 06:22	4/21/23 10:44		1.015	0.000878	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 10:44		1.015	0.0411	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 10:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 10:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 10:44		1.015	0.000211	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/21/23 06:22	4/21/23 10:44		1.015	0.000959	mg/L	0.000068	0.000203	
* Lead, Total	4/21/23 06:22	4/21/23 10:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 10:44		1.015	1.10	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20H

Location Code: WMWMILAP
Collected: 4/19/23 12:16
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07883

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 10:44		1.015	4.50	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 10:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 10:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 12:00		1.015	0.0235	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	0.000813	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	0.0273	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	0.00110	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	1.20	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	4.94	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 12:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 14:53	4/21/23 14:53		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	98.5	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	1100	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	98.2	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 12:11	4/27/23 12:11		1	1.64	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20H

Location Code: WMWMILAP
Collected: 4/19/23 12:16
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07883

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:24	4/25/23 12:24		2	26.8	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:13	5/2/23 10:13		1	0.320	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 09:10	4/28/23 09:10		40	709	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/19/23 12:13	4/19/23 12:13			1481.02	uS/cm			FA
pH	4/19/23 12:13	4/19/23 12:13			7.30	SU			FA
Temperature	4/19/23 12:13	4/19/23 12:13			20.99	C			FA
Turbidity	4/19/23 12:13	4/19/23 12:13			2.8	NTU			FA
Sulfide	4/19/23 12:13	4/19/23 12:13			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 12:16
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: BD07883

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD07879	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD07888	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0971	0.0965	0.0888	0.0850 to 0.115	97.1	70.0 to 130	0.620	20.0
BD07888	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0949	0.0962	0.0939	0.0850 to 0.115	94.9	70.0 to 130	1.36	20.0
BD07888	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.103	0.101	0.0993	0.0850 to 0.115	102	70.0 to 130	1.96	20.0
BD07888	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0914	0.0917	0.0970	0.0850 to 0.115	90.7	70.0 to 130	0.328	20.0
BD07888	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.157	0.153	0.0957	0.0850 to 0.115	101	70.0 to 130	2.58	20.0
BD07888	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.138	0.135	0.0931	0.0850 to 0.115	88.6	70.0 to 130	2.20	20.0
BD07888	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.0984	0.0970	0.0989	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD07888	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0975	0.0961	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.45	20.0
BD07888	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.06	1.07	0.983	0.850 to 1.15	101	70.0 to 130	0.939	20.0
BD07888	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.10	1.12	1.04	0.850 to 1.15	105	70.0 to 130	1.80	20.0
BD07888	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0995	0.0976	0.0966	0.0850 to 0.115	99.5	70.0 to 130	1.93	20.0
BD07888	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0876	0.0873	0.0937	0.0850 to 0.115	87.6	70.0 to 130	0.343	20.0
BD07888	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	77.0	82.9	4.97	4.25 to 5.75	136	70.0 to 130	7.38	20.0
BD07888	Calcium, Total	mg/L	0.00986	0.152	5.00	74.2	80.5	4.92	4.25 to 5.75	126	70.0 to 130	8.14	20.0
BD07887	Chloride	mg/L	0.0889	1.00	10.0	15.2	15.3	10.4	9.00 to 11.0	106	80.0 to 120	0.656	20.0
BD07888	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.0981	0.0975	0.0946	0.0850 to 0.115	97.7	70.0 to 130	0.613	20.0
BD07888	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0863	0.0868	0.0919	0.0850 to 0.115	86.0	70.0 to 130	0.578	20.0
BD07888	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0995	0.0967	0.0944	0.0850 to 0.115	98.7	70.0 to 130	2.85	20.0
BD07888	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0876	0.0872	0.0924	0.0850 to 0.115	86.8	70.0 to 130	0.458	20.0
BD07887	Fluoride	mg/L	0.0422	0.125	2.50	1.98	2.04	2.48	2.25 to 2.75	74.2	80.0 to 120	2.99	20.0
BD07888	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.427	0.430	0.197	0.170 to 0.230	95.5	70.0 to 130	0.700	20.0
BD07888	Iron, Total	mg/L	0.000683	0.0176	0.2	0.499	0.503	0.202	0.170 to 0.230	96.0	70.0 to 130	0.798	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 12:16
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: BD07883

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07888	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD07888	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0874	0.0884	0.0936	0.0850 to 0.115	87.4	70.0 to 130	1.14	20.0
BD07888	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.233	0.232	0.189	0.170 to 0.230	98.3	70.0 to 130	0.430	20.0
BD07888	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.232	0.233	0.203	0.170 to 0.230	96.9	70.0 to 130	0.430	20.0
BD07888	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	32.3	32.4	4.82	4.25 to 5.75	100	70.0 to 130	0.309	20.0
BD07888	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	33.7	34.2	5.03	4.25 to 5.75	90.0	70.0 to 130	1.47	20.0
BD07888	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.188	0.186	0.102	0.0850 to 0.115	102	70.0 to 130	1.07	20.0
BD07888	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.163	0.159	0.0931	0.0850 to 0.115	87.5	70.0 to 130	2.48	20.0
BD07888	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00399	0.00398	0.00395	0.00340 to 0.00460	99.8	70.0 to 130	0.251	20.0
BD07888	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.198	0.200	0.197	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD07888	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.202	0.207	0.200	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD07888	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	12.7	12.6	10.2	8.50 to 11.5	97.1	70.0 to 130	0.791	20.0
BD07888	Potassium, Total	mg/L	-0.0207	0.367	10.0	11.6	11.5	9.24	8.50 to 11.5	88.2	70.0 to 130	0.866	20.0
BD07888	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD07888	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0913	0.0912	0.101	0.0850 to 0.115	91.3	70.0 to 130	0.110	20.0
BD07888	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	11.1	11.1	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07888	Silicon, Total	mg/L	0.000037	0.0440	1.00	11.2	11.3	1.02	0.850 to 1.15	90.0	70.0 to 130	0.889	20.0
BD07888	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	83.9	91.0	4.69	4.25 to 5.75	152	70.0 to 130	8.12	20.0
BD07888	Sodium, Total	mg/L	0.000514	0.0880	5.00	87.8	92.1	5.01	4.25 to 5.75	166	70.0 to 130	4.78	20.0
BD07887	Sulfate	mg/L	0.140	2.0	1000	1760	1720	19.3	18.0 to 22.0	104	80.0 to 120	2.30	20.0
BD07888	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD07888	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0868	0.0868	0.0908	0.0850 to 0.115	86.8	70.0 to 130	0.00	20.0
BD07888	Total Organic Carbon	mg/L	0.0986	1.00	10.0	8.84	10.6	22.4		88.4	80.0 to 120	18.1	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 12:16
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: BD07883

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07888	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.52	0.461	1.99	1.80 to 2.20	104	90.0 to 110	2.86	15.0
BD07892	Solids, Dissolved	mg/L	1.00	25.0			325	48.0	40.0 to 60.0			0.927	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS

Location Code: WMWMLAP
Collected: 4/19/23 13:36
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07884

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 11:39		1.015	0.384	mg/L	0.030000	0.1015	
* Calcium, Total	4/21/23 06:22	4/24/23 13:59		10.15	79.7	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 13:59		10.15	5.78	mg/L	0.08120	0.406	
* Lithium, Total	4/21/23 06:22	4/24/23 11:39		1.015	0.0415	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 11:39		1.015	24.9	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 11:39		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 11:39		1	30.8	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 11:39		1.015	14.4	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 11:39		1.015	36.6	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	4/24/23 06:27	4/28/23 12:44		1.015	0.376	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/24/23 06:27	4/28/23 13:57		10.15	86.6	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 13:57		10.15	5.76	mg/L	0.08120	0.406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 12:44		1.015	0.0418	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 12:44		1.015	24.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 12:44		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 12:44		1	30.6	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 12:44		1.015	14.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 12:44		1.015	36.6	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 10:48		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 09:52		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/21/23 06:22	4/21/23 10:48		1.015	0.000367	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 10:48		1.015	0.0283	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 10:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 10:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 10:48		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 10:48		1.015	0.000251	mg/L	0.000068	0.000203	
* Lead, Total	4/21/23 06:22	4/21/23 10:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 10:48		1.015	0.292	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS

Location Code: WMWMILAP
Collected: 4/19/23 13:36
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07884

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 10:48		1.015	1.13	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 10:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 10:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 12:03		1.015	0.0119	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	0.000334	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	0.0320	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	0.000288	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	0.347	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	1.24	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 14:55	4/21/23 14:55		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	73.8	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	477	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	73.7	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 12:26	4/27/23 12:26		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS

Location Code: WMWMILAP
Collected: 4/19/23 13:36
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07884

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:26	4/25/23 12:26		3	32.7	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:15	5/2/23 10:15		1	0.0718	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 09:12	4/28/23 09:12		16	242	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/19/23 13:33	4/19/23 13:33			708.04	uS/cm			FA
pH	4/19/23 13:33	4/19/23 13:33			6.62	SU			FA
Temperature	4/19/23 13:33	4/19/23 13:33			18.01	C			FA
Turbidity	4/19/23 13:33	4/19/23 13:33			1.56	NTU			FA
Sulfide	4/19/23 13:33	4/19/23 13:33			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 13:36
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: BD07884

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD07879	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD07888	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0971	0.0965	0.0888	0.0850 to 0.115	97.1	70.0 to 130	0.620	20.0
BD07888	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0949	0.0962	0.0939	0.0850 to 0.115	94.9	70.0 to 130	1.36	20.0
BD07888	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.103	0.101	0.0993	0.0850 to 0.115	102	70.0 to 130	1.96	20.0
BD07888	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0914	0.0917	0.0970	0.0850 to 0.115	90.7	70.0 to 130	0.328	20.0
BD07888	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.157	0.153	0.0957	0.0850 to 0.115	101	70.0 to 130	2.58	20.0
BD07888	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.138	0.135	0.0931	0.0850 to 0.115	88.6	70.0 to 130	2.20	20.0
BD07888	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.0984	0.0970	0.0989	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD07888	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0975	0.0961	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.45	20.0
BD07888	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.06	1.07	0.983	0.850 to 1.15	101	70.0 to 130	0.939	20.0
BD07888	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.10	1.12	1.04	0.850 to 1.15	105	70.0 to 130	1.80	20.0
BD07888	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0995	0.0976	0.0966	0.0850 to 0.115	99.5	70.0 to 130	1.93	20.0
BD07888	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0876	0.0873	0.0937	0.0850 to 0.115	87.6	70.0 to 130	0.343	20.0
BD07888	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	77.0	82.9	4.97	4.25 to 5.75	136	70.0 to 130	7.38	20.0
BD07888	Calcium, Total	mg/L	0.00986	0.152	5.00	74.2	80.5	4.92	4.25 to 5.75	126	70.0 to 130	8.14	20.0
BD07887	Chloride	mg/L	0.0889	1.00	10.0	15.2	15.3	10.4	9.00 to 11.0	106	80.0 to 120	0.656	20.0
BD07888	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.0981	0.0975	0.0946	0.0850 to 0.115	97.7	70.0 to 130	0.613	20.0
BD07888	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0863	0.0868	0.0919	0.0850 to 0.115	86.0	70.0 to 130	0.578	20.0
BD07888	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0995	0.0967	0.0944	0.0850 to 0.115	98.7	70.0 to 130	2.85	20.0
BD07888	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0876	0.0872	0.0924	0.0850 to 0.115	86.8	70.0 to 130	0.458	20.0
BD07887	Fluoride	mg/L	0.0422	0.125	2.50	1.98	2.04	2.48	2.25 to 2.75	74.2	80.0 to 120	2.99	20.0
BD07888	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.427	0.430	0.197	0.170 to 0.230	95.5	70.0 to 130	0.700	20.0
BD07888	Iron, Total	mg/L	0.000683	0.0176	0.2	0.499	0.503	0.202	0.170 to 0.230	96.0	70.0 to 130	0.798	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 13:36
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: BD07884

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07888	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD07888	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0874	0.0884	0.0936	0.0850 to 0.115	87.4	70.0 to 130	1.14	20.0
BD07888	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.233	0.232	0.189	0.170 to 0.230	98.3	70.0 to 130	0.430	20.0
BD07888	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.232	0.233	0.203	0.170 to 0.230	96.9	70.0 to 130	0.430	20.0
BD07888	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	32.3	32.4	4.82	4.25 to 5.75	100	70.0 to 130	0.309	20.0
BD07888	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	33.7	34.2	5.03	4.25 to 5.75	90.0	70.0 to 130	1.47	20.0
BD07888	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.188	0.186	0.102	0.0850 to 0.115	102	70.0 to 130	1.07	20.0
BD07888	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.163	0.159	0.0931	0.0850 to 0.115	87.5	70.0 to 130	2.48	20.0
BD07888	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00399	0.00398	0.00395	0.00340 to 0.00460	99.8	70.0 to 130	0.251	20.0
BD07888	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.198	0.200	0.197	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD07888	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.202	0.207	0.200	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD07888	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	12.7	12.6	10.2	8.50 to 11.5	97.1	70.0 to 130	0.791	20.0
BD07888	Potassium, Total	mg/L	-0.0207	0.367	10.0	11.6	11.5	9.24	8.50 to 11.5	88.2	70.0 to 130	0.866	20.0
BD07888	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD07888	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0913	0.0912	0.101	0.0850 to 0.115	91.3	70.0 to 130	0.110	20.0
BD07888	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	11.1	11.1	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07888	Silicon, Total	mg/L	0.000037	0.0440	1.00	11.2	11.3	1.02	0.850 to 1.15	90.0	70.0 to 130	0.889	20.0
BD07888	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	83.9	91.0	4.69	4.25 to 5.75	152	70.0 to 130	8.12	20.0
BD07888	Sodium, Total	mg/L	0.000514	0.0880	5.00	87.8	92.1	5.01	4.25 to 5.75	166	70.0 to 130	4.78	20.0
BD07887	Sulfate	mg/L	0.140	2.0	1000	1760	1720	19.3	18.0 to 22.0	104	80.0 to 120	2.30	20.0
BD07888	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD07888	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0868	0.0868	0.0908	0.0850 to 0.115	86.8	70.0 to 130	0.00	20.0
BD07888	Total Organic Carbon	mg/L	0.0986	1.00	10.0	8.84	10.6	22.4		88.4	80.0 to 120	18.1	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 13:36
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: BD07884

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07888	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.52	0.461	1.99	1.80 to 2.20	104	90.0 to 110	2.86	15.0
BD07892	Solids, Dissolved	mg/L	1.00	25.0			325	48.0	40.0 to 60.0			0.927	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS Dup

Location Code: WMWMILAP
Collected: 4/19/23 13:36
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07885

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 11:42		1.015	0.387	mg/L	0.030000	0.1015	
* Calcium, Total	4/21/23 06:22	4/24/23 14:02		10.15	81.9	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 14:02		10.15	5.82	mg/L	0.08120	0.406	
* Lithium, Total	4/21/23 06:22	4/24/23 11:42		1.015	0.0425	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 11:42		1.015	25.1	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 11:42		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 11:42		1	31.2	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 11:42		1.015	14.6	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 11:42		1.015	36.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/24/23 06:27	4/28/23 12:47		1.015	0.378	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/24/23 06:27	4/28/23 14:00		10.15	84.3	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 14:00		10.15	5.52	mg/L	0.08120	0.406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 12:47		1.015	0.0420	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 12:47		1.015	24.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 12:47		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 12:47		1	30.6	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 12:47		1.015	14.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 12:47		1.015	36.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 10:51		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 09:55		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/21/23 06:22	4/21/23 10:51		1.015	0.000264	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 10:51		1.015	0.0267	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 10:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 10:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 10:51		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 10:51		1.015	0.000243	mg/L	0.000068	0.000203	
* Lead, Total	4/21/23 06:22	4/21/23 10:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 10:51		1.015	0.282	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS Dup

Location Code: WMWMILAP
Collected: 4/19/23 13:36
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07885

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 10:51		1.015	1.08	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 10:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 10:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 12:07		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	0.000344	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	0.0323	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	0.000218	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	0.000255	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	0.338	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	1.23	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 14:57	4/21/23 14:57		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	74.9	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	496	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	74.7	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 12:42	4/27/23 12:42		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS Dup

Location Code: WMWMILAP
Collected: 4/19/23 13:36
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07885

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:27	4/25/23 12:27		3	33.1	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:16	5/2/23 10:16		1	0.0737	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 09:13	4/28/23 09:13		16	239	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/19/23 13:33	4/19/23 13:33			708.04	uS/cm			FA
pH	4/19/23 13:33	4/19/23 13:33			6.62	SU			FA
Temperature	4/19/23 13:33	4/19/23 13:33			18.01	C			FA
Turbidity	4/19/23 13:33	4/19/23 13:33			1.56	NTU			FA
Sulfide	4/19/23 13:33	4/19/23 13:33			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 13:36
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-20HS Dup

Laboratory ID Number: BD07885

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD07879	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD07888	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0971	0.0965	0.0888	0.0850 to 0.115	97.1	70.0 to 130	0.620	20.0
BD07888	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0949	0.0962	0.0939	0.0850 to 0.115	94.9	70.0 to 130	1.36	20.0
BD07888	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.103	0.101	0.0993	0.0850 to 0.115	102	70.0 to 130	1.96	20.0
BD07888	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0914	0.0917	0.0970	0.0850 to 0.115	90.7	70.0 to 130	0.328	20.0
BD07888	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.157	0.153	0.0957	0.0850 to 0.115	101	70.0 to 130	2.58	20.0
BD07888	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.138	0.135	0.0931	0.0850 to 0.115	88.6	70.0 to 130	2.20	20.0
BD07888	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.0984	0.0970	0.0989	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD07888	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0975	0.0961	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.45	20.0
BD07888	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.06	1.07	0.983	0.850 to 1.15	101	70.0 to 130	0.939	20.0
BD07888	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.10	1.12	1.04	0.850 to 1.15	105	70.0 to 130	1.80	20.0
BD07888	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0995	0.0976	0.0966	0.0850 to 0.115	99.5	70.0 to 130	1.93	20.0
BD07888	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0876	0.0873	0.0937	0.0850 to 0.115	87.6	70.0 to 130	0.343	20.0
BD07888	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	77.0	82.9	4.97	4.25 to 5.75	136	70.0 to 130	7.38	20.0
BD07888	Calcium, Total	mg/L	0.00986	0.152	5.00	74.2	80.5	4.92	4.25 to 5.75	126	70.0 to 130	8.14	20.0
BD07887	Chloride	mg/L	0.0889	1.00	10.0	15.2	15.3	10.4	9.00 to 11.0	106	80.0 to 120	0.656	20.0
BD07888	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.0981	0.0975	0.0946	0.0850 to 0.115	97.7	70.0 to 130	0.613	20.0
BD07888	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0863	0.0868	0.0919	0.0850 to 0.115	86.0	70.0 to 130	0.578	20.0
BD07888	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0995	0.0967	0.0944	0.0850 to 0.115	98.7	70.0 to 130	2.85	20.0
BD07888	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0876	0.0872	0.0924	0.0850 to 0.115	86.8	70.0 to 130	0.458	20.0
BD07887	Fluoride	mg/L	0.0422	0.125	2.50	1.98	2.04	2.48	2.25 to 2.75	74.2	80.0 to 120	2.99	20.0
BD07888	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.427	0.430	0.197	0.170 to 0.230	95.5	70.0 to 130	0.700	20.0
BD07888	Iron, Total	mg/L	0.000683	0.0176	0.2	0.499	0.503	0.202	0.170 to 0.230	96.0	70.0 to 130	0.798	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 13:36
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-20HS Dup

Laboratory ID Number: BD07885

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07888	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD07888	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0874	0.0884	0.0936	0.0850 to 0.115	87.4	70.0 to 130	1.14	20.0
BD07888	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.233	0.232	0.189	0.170 to 0.230	98.3	70.0 to 130	0.430	20.0
BD07888	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.232	0.233	0.203	0.170 to 0.230	96.9	70.0 to 130	0.430	20.0
BD07888	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	32.3	32.4	4.82	4.25 to 5.75	100	70.0 to 130	0.309	20.0
BD07888	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	33.7	34.2	5.03	4.25 to 5.75	90.0	70.0 to 130	1.47	20.0
BD07888	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.188	0.186	0.102	0.0850 to 0.115	102	70.0 to 130	1.07	20.0
BD07888	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.163	0.159	0.0931	0.0850 to 0.115	87.5	70.0 to 130	2.48	20.0
BD07888	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00399	0.00398	0.00395	0.00340 to 0.00460	99.8	70.0 to 130	0.251	20.0
BD07888	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.198	0.200	0.197	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD07888	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.202	0.207	0.200	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD07888	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	12.7	12.6	10.2	8.50 to 11.5	97.1	70.0 to 130	0.791	20.0
BD07888	Potassium, Total	mg/L	-0.0207	0.367	10.0	11.6	11.5	9.24	8.50 to 11.5	88.2	70.0 to 130	0.866	20.0
BD07888	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD07888	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0913	0.0912	0.101	0.0850 to 0.115	91.3	70.0 to 130	0.110	20.0
BD07888	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	11.1	11.1	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07888	Silicon, Total	mg/L	0.000037	0.0440	1.00	11.2	11.3	1.02	0.850 to 1.15	90.0	70.0 to 130	0.889	20.0
BD07888	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	83.9	91.0	4.69	4.25 to 5.75	152	70.0 to 130	8.12	20.0
BD07888	Sodium, Total	mg/L	0.000514	0.0880	5.00	87.8	92.1	5.01	4.25 to 5.75	166	70.0 to 130	4.78	20.0
BD07887	Sulfate	mg/L	0.140	2.0	1000	1760	1720	19.3	18.0 to 22.0	104	80.0 to 120	2.30	20.0
BD07888	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD07888	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0868	0.0868	0.0908	0.0850 to 0.115	86.8	70.0 to 130	0.00	20.0
BD07888	Total Organic Carbon	mg/L	0.0986	1.00	10.0	8.84	10.6	22.4		88.4	80.0 to 120	18.1	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 13:36
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-20HS Dup

Laboratory ID Number: BD07885

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07888	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.52	0.461	1.99	1.80 to 2.20	104	90.0 to 110	2.86	15.0
BD07892	Solids, Dissolved	mg/L	1.00	25.0			325	48.0	40.0 to 60.0			0.927	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-32H

Location Code: WMWMILAP
Collected: 4/19/23 15:18
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07886

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 11:45		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/21/23 06:22	4/24/23 14:05		10.15	56.6	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 11:45		1.015	0.258	mg/L	0.008120	0.0406	
* Lithium, Total	4/21/23 06:22	4/24/23 11:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/21/23 06:22	4/24/23 11:45		1.015	12.3	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 11:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 11:45		1	22.3	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 11:45		1.015	10.4	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 11:45		1.015	19.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	4/24/23 06:27	4/28/23 12:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/24/23 06:27	4/28/23 14:03		10.15	62.8	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 12:50		1.015	0.196	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 12:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 12:50		1.015	11.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 12:50		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 12:50		1	21.8	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 12:50		1.015	10.2	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 12:50		1.015	19.5	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 10:55		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 09:59		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/21/23 06:22	4/21/23 10:55		1.015	0.000910	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 10:55		1.015	0.401	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 10:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 10:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 10:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 10:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/21/23 06:22	4/21/23 10:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 10:55		1.015	0.0107	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-32H

Location Code: WMWMILAP
Collected: 4/19/23 15:18
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07886

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 10:55		1.015	1.27	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 10:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 10:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 12:10		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	0.000916	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	0.506	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	0.000308	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	0.0000759	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	0.00986	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	1.58	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 14:59	4/21/23 14:59		1	0.226	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	200	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	187	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	199	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	1.29	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 12:57	4/27/23 12:57		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-32H

Location Code: WMWMILAP
Collected: 4/19/23 15:18
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07886

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:18	4/25/23 12:18		1	8.09	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:17	5/2/23 10:17		1	0.135	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 09:02	4/28/23 09:02		1	21.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/19/23 15:15	4/19/23 15:15			415.16	uS/cm			FA
pH	4/19/23 15:15	4/19/23 15:15			7.28	SU			FA
Temperature	4/19/23 15:15	4/19/23 15:15			24.66	C			FA
Turbidity	4/19/23 15:15	4/19/23 15:15			3.98	NTU			FA
Sulfide	4/19/23 15:15	4/19/23 15:15			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 15:18
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-32H

Laboratory ID Number: BD07886

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD07879	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD07888	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0971	0.0965	0.0888	0.0850 to 0.115	97.1	70.0 to 130	0.620	20.0
BD07888	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0949	0.0962	0.0939	0.0850 to 0.115	94.9	70.0 to 130	1.36	20.0
BD07888	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.103	0.101	0.0993	0.0850 to 0.115	102	70.0 to 130	1.96	20.0
BD07888	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0914	0.0917	0.0970	0.0850 to 0.115	90.7	70.0 to 130	0.328	20.0
BD07888	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.157	0.153	0.0957	0.0850 to 0.115	101	70.0 to 130	2.58	20.0
BD07888	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.138	0.135	0.0931	0.0850 to 0.115	88.6	70.0 to 130	2.20	20.0
BD07888	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.0984	0.0970	0.0989	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD07888	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0975	0.0961	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.45	20.0
BD07888	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.06	1.07	0.983	0.850 to 1.15	101	70.0 to 130	0.939	20.0
BD07888	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.10	1.12	1.04	0.850 to 1.15	105	70.0 to 130	1.80	20.0
BD07888	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0995	0.0976	0.0966	0.0850 to 0.115	99.5	70.0 to 130	1.93	20.0
BD07888	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0876	0.0873	0.0937	0.0850 to 0.115	87.6	70.0 to 130	0.343	20.0
BD07888	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	77.0	82.9	4.97	4.25 to 5.75	136	70.0 to 130	7.38	20.0
BD07888	Calcium, Total	mg/L	0.00986	0.152	5.00	74.2	80.5	4.92	4.25 to 5.75	126	70.0 to 130	8.14	20.0
BD07887	Chloride	mg/L	0.0889	1.00	10.0	15.2	15.3	10.4	9.00 to 11.0	106	80.0 to 120	0.656	20.0
BD07888	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.0981	0.0975	0.0946	0.0850 to 0.115	97.7	70.0 to 130	0.613	20.0
BD07888	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0863	0.0868	0.0919	0.0850 to 0.115	86.0	70.0 to 130	0.578	20.0
BD07888	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0995	0.0967	0.0944	0.0850 to 0.115	98.7	70.0 to 130	2.85	20.0
BD07888	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0876	0.0872	0.0924	0.0850 to 0.115	86.8	70.0 to 130	0.458	20.0
BD07887	Fluoride	mg/L	0.0422	0.125	2.50	1.98	2.04	2.48	2.25 to 2.75	74.2	80.0 to 120	2.99	20.0
BD07888	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.427	0.430	0.197	0.170 to 0.230	95.5	70.0 to 130	0.700	20.0
BD07888	Iron, Total	mg/L	0.000683	0.0176	0.2	0.499	0.503	0.202	0.170 to 0.230	96.0	70.0 to 130	0.798	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 15:18
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-32H

Laboratory ID Number: BD07886

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07888	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD07888	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0874	0.0884	0.0936	0.0850 to 0.115	87.4	70.0 to 130	1.14	20.0
BD07888	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.233	0.232	0.189	0.170 to 0.230	98.3	70.0 to 130	0.430	20.0
BD07888	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.232	0.233	0.203	0.170 to 0.230	96.9	70.0 to 130	0.430	20.0
BD07888	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	32.3	32.4	4.82	4.25 to 5.75	100	70.0 to 130	0.309	20.0
BD07888	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	33.7	34.2	5.03	4.25 to 5.75	90.0	70.0 to 130	1.47	20.0
BD07888	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.188	0.186	0.102	0.0850 to 0.115	102	70.0 to 130	1.07	20.0
BD07888	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.163	0.159	0.0931	0.0850 to 0.115	87.5	70.0 to 130	2.48	20.0
BD07888	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00399	0.00398	0.00395	0.00340 to 0.00460	99.8	70.0 to 130	0.251	20.0
BD07888	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.198	0.200	0.197	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD07888	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.202	0.207	0.200	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD07888	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	12.7	12.6	10.2	8.50 to 11.5	97.1	70.0 to 130	0.791	20.0
BD07888	Potassium, Total	mg/L	-0.0207	0.367	10.0	11.6	11.5	9.24	8.50 to 11.5	88.2	70.0 to 130	0.866	20.0
BD07888	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD07888	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0913	0.0912	0.101	0.0850 to 0.115	91.3	70.0 to 130	0.110	20.0
BD07888	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	11.1	11.1	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07888	Silicon, Total	mg/L	0.000037	0.0440	1.00	11.2	11.3	1.02	0.850 to 1.15	90.0	70.0 to 130	0.889	20.0
BD07888	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	83.9	91.0	4.69	4.25 to 5.75	152	70.0 to 130	8.12	20.0
BD07888	Sodium, Total	mg/L	0.000514	0.0880	5.00	87.8	92.1	5.01	4.25 to 5.75	166	70.0 to 130	4.78	20.0
BD07887	Sulfate	mg/L	0.140	2.0	1000	1760	1720	19.3	18.0 to 22.0	104	80.0 to 120	2.30	20.0
BD07888	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD07888	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0868	0.0868	0.0908	0.0850 to 0.115	86.8	70.0 to 130	0.00	20.0
BD07888	Total Organic Carbon	mg/L	0.0986	1.00	10.0	8.84	10.6	22.4		88.4	80.0 to 120	18.1	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 15:18
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-32H

Laboratory ID Number: BD07886

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07888	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.52	0.461	1.99	1.80 to 2.20	104	90.0 to 110	2.86	15.0
BD07892	Solids, Dissolved	mg/L	1.00	25.0			325	48.0	40.0 to 60.0			0.927	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13SR

Location Code: WMWMILAP
Collected: 4/18/23 11:40
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07887

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 11:48		1.015	0.0400	mg/L	0.030000	0.1015	J
* Calcium, Total	4/21/23 06:22	4/24/23 14:08		10.15	65.0	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 14:08		10.15	12.3	mg/L	0.08120	0.406	
* Lithium, Total	4/21/23 06:22	4/24/23 11:48		1.015	0.0199	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/21/23 06:22	4/24/23 14:08		10.15	142	mg/L	0.21315	4.06	
* Molybdenum, Total	4/21/23 06:22	4/24/23 11:48		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 11:48		1	18.6	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 11:48		1.015	8.67	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 11:48		1.015	24.2	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	4/24/23 06:27	4/28/23 12:54		1.015	0.0374	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/24/23 06:27	4/28/23 14:06		10.15	70.6	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 14:06		10.15	12.1	mg/L	0.08120	0.406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 12:54		1.015	0.0183	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 14:06		10.15	146	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 12:54		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 12:54		1	17.9	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 12:54		1.015	8.38	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 12:54		1.015	23.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 10:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 10:02		1.015	0.871	mg/L	0.009135	0.05075	
* Arsenic, Total	4/21/23 06:22	4/21/23 10:59		1.015	0.00135	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 10:59		1.015	0.0163	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 10:59		1.015	0.00244	mg/L	0.000406	0.001015	
* Cadmium, Total	4/21/23 06:22	4/21/23 10:59		1.015	0.000563	mg/L	0.000068	0.000203	
* Chromium, Total	4/21/23 06:22	4/21/23 10:59		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 10:59		1.015	0.0819	mg/L	0.000068	0.000203	
* Lead, Total	4/21/23 06:22	4/21/23 10:59		1.015	0.00101	mg/L	0.000068	0.000203	
* Manganese, Total	4/21/23 06:22	4/21/23 11:51		5.075	2.32	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Fluoride matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13SR

Location Code: WMWMILAP
Collected: 4/18/23 11:40
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07887

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 10:59		1.015	3.83	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 10:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 10:59		1.015	0.000165	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 12:14		1.015	0.869	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	0.00151	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	0.0182	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	0.00239	mg/L	0.000406	0.001015	
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	0.000580	mg/L	0.000068	0.000203	
* Chromium, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	0.0905	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	0.00111	mg/L	0.000068	0.000203	
* Manganese, Dissolved	4/24/23 06:27	4/24/23 13:35		5.075	2.76	mg/L	0.000761	0.005075	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	4.16	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 12:46		1.015	0.000199	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 15:01	4/21/23 15:01		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	14.9	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	1030	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	14.9	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 13:12	4/27/23 13:12		1	1.28	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Fluoride matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13SR

Location Code: WMWMILAP
Collected: 4/18/23 11:40
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07887

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:20	4/25/23 12:20		1	4.62	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:18	5/2/23 10:18		1	0.124	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 09:22	4/28/23 09:22		50	718	mg/L	30.0	100	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/18/23 11:38	4/18/23 11:38			1355.99	uS/cm			FA
pH	4/18/23 11:38	4/18/23 11:38			5.16	SU			FA
Temperature	4/18/23 11:38	4/18/23 11:38			18.95	C			FA
Turbidity	4/18/23 11:38	4/18/23 11:38			2.51	NTU			FA
Sulfide	4/18/23 11:38	4/18/23 11:38			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Fluoride matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 11:40
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-13SR

Laboratory ID Number: BD07887

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD07879	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD07888	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0971	0.0965	0.0888	0.0850 to 0.115	97.1	70.0 to 130	0.620	20.0
BD07888	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0949	0.0962	0.0939	0.0850 to 0.115	94.9	70.0 to 130	1.36	20.0
BD07888	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.103	0.101	0.0993	0.0850 to 0.115	102	70.0 to 130	1.96	20.0
BD07888	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0914	0.0917	0.0970	0.0850 to 0.115	90.7	70.0 to 130	0.328	20.0
BD07888	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.157	0.153	0.0957	0.0850 to 0.115	101	70.0 to 130	2.58	20.0
BD07888	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.138	0.135	0.0931	0.0850 to 0.115	88.6	70.0 to 130	2.20	20.0
BD07888	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.0984	0.0970	0.0989	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD07888	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0975	0.0961	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.45	20.0
BD07888	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.06	1.07	0.983	0.850 to 1.15	101	70.0 to 130	0.939	20.0
BD07888	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.10	1.12	1.04	0.850 to 1.15	105	70.0 to 130	1.80	20.0
BD07888	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0995	0.0976	0.0966	0.0850 to 0.115	99.5	70.0 to 130	1.93	20.0
BD07888	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0876	0.0873	0.0937	0.0850 to 0.115	87.6	70.0 to 130	0.343	20.0
BD07888	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	77.0	82.9	4.97	4.25 to 5.75	136	70.0 to 130	7.38	20.0
BD07888	Calcium, Total	mg/L	0.00986	0.152	5.00	74.2	80.5	4.92	4.25 to 5.75	126	70.0 to 130	8.14	20.0
BD07887	Chloride	mg/L	0.0889	1.00	10.0	15.2	15.3	10.4	9.00 to 11.0	106	80.0 to 120	0.656	20.0
BD07888	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.0981	0.0975	0.0946	0.0850 to 0.115	97.7	70.0 to 130	0.613	20.0
BD07888	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0863	0.0868	0.0919	0.0850 to 0.115	86.0	70.0 to 130	0.578	20.0
BD07888	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0995	0.0967	0.0944	0.0850 to 0.115	98.7	70.0 to 130	2.85	20.0
BD07888	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0876	0.0872	0.0924	0.0850 to 0.115	86.8	70.0 to 130	0.458	20.0
BD07887	Fluoride	mg/L	0.0422	0.125	2.50	1.98	2.04	2.48	2.25 to 2.75	74.2	80.0 to 120	2.99	20.0
BD07888	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.427	0.430	0.197	0.170 to 0.230	95.5	70.0 to 130	0.700	20.0
BD07888	Iron, Total	mg/L	0.000683	0.0176	0.2	0.499	0.503	0.202	0.170 to 0.230	96.0	70.0 to 130	0.798	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Fluoride matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 11:40
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-13SR

Laboratory ID Number: BD07887

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD07888	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD07888	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0874	0.0884	0.0936	0.0850 to 0.115	87.4	70.0 to 130	1.14	20.0
BD07888	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.233	0.232	0.189	0.170 to 0.230	98.3	70.0 to 130	0.430	20.0
BD07888	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.232	0.233	0.203	0.170 to 0.230	96.9	70.0 to 130	0.430	20.0
BD07888	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	32.3	32.4	4.82	4.25 to 5.75	100	70.0 to 130	0.309	20.0
BD07888	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	33.7	34.2	5.03	4.25 to 5.75	90.0	70.0 to 130	1.47	20.0
BD07888	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.188	0.186	0.102	0.0850 to 0.115	102	70.0 to 130	1.07	20.0
BD07888	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.163	0.159	0.0931	0.0850 to 0.115	87.5	70.0 to 130	2.48	20.0
BD07888	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00399	0.00398	0.00395	0.00340 to 0.00460	99.8	70.0 to 130	0.251	20.0
BD07888	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.198	0.200	0.197	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD07888	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.202	0.207	0.200	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD07888	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	12.7	12.6	10.2	8.50 to 11.5	97.1	70.0 to 130	0.791	20.0
BD07888	Potassium, Total	mg/L	-0.0207	0.367	10.0	11.6	11.5	9.24	8.50 to 11.5	88.2	70.0 to 130	0.866	20.0
BD07888	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD07888	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0913	0.0912	0.101	0.0850 to 0.115	91.3	70.0 to 130	0.110	20.0
BD07888	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	11.1	11.1	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07888	Silicon, Total	mg/L	0.000037	0.0440	1.00	11.2	11.3	1.02	0.850 to 1.15	90.0	70.0 to 130	0.889	20.0
BD07888	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	83.9	91.0	4.69	4.25 to 5.75	152	70.0 to 130	8.12	20.0
BD07888	Sodium, Total	mg/L	0.000514	0.0880	5.00	87.8	92.1	5.01	4.25 to 5.75	166	70.0 to 130	4.78	20.0
BD07887	Sulfate	mg/L	0.140	2.0	1000	1760	1720	19.3	18.0 to 22.0	104	80.0 to 120	2.30	20.0
BD07888	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD07888	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0868	0.0868	0.0908	0.0850 to 0.115	86.8	70.0 to 130	0.00	20.0
BD07888	Total Organic Carbon	mg/L	0.0986	1.00	10.0	8.84	10.6	22.4		88.4	80.0 to 120	18.1	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Fluoride matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/18/23 11:40

Customer ID:

Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-13SR

Laboratory ID Number: BD07887

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07888	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.52	0.461	1.99	1.80 to 2.20	104	90.0 to 110	2.86	15.0
BD07892	Solids, Dissolved	mg/L	1.00	25.0			325	48.0	40.0 to 60.0			0.927	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Fluoride matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13DR

Location Code: WMWMILAP
Collected: 4/18/23 13:55
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07888

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	4/21/23 06:22	4/24/23 11:51		1.015	0.0492	mg/L	0.030000	0.1015	J	
* Calcium, Total	4/21/23 06:22	4/24/23 14:11		10.15	67.9	mg/L	0.70035	4.06	RA	
* Iron, Total	4/21/23 06:22	4/24/23 11:51		1.015	0.307	mg/L	0.008120	0.0406		
* Lithium, Total	4/21/23 06:22	4/24/23 11:51		1.015	0.0382	mg/L	0.007105	0.01999956		
* Magnesium, Total	4/21/23 06:22	4/24/23 11:51		1.015	29.2	mg/L	0.021315	0.406		
* Molybdenum, Total	4/21/23 06:22	4/24/23 11:51		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 11:51		1	22.0	mg/L				
* Silicon, Total	4/21/23 06:22	4/24/23 11:51		1.015	10.3	mg/L	0.02030	0.25375		
* Sodium, Total	4/21/23 06:22	4/24/23 14:11		10.15	79.5	mg/L	0.4060	4.06	RA	
Analytical Method: EPA 200.7		Analyst: ABB								
* Boron, Dissolved	4/24/23 06:27	4/28/23 12:57		1.015	0.0472	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	4/24/23 06:27	4/28/23 14:09		10.15	70.2	mg/L	0.70035	4.06	RA	
* Iron, Dissolved	4/24/23 06:27	4/28/23 12:57		1.015	0.236	mg/L	0.008120	0.0406		
* Lithium, Dissolved	4/24/23 06:27	4/28/23 12:57		1.015	0.0364	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 12:57		1.015	27.3	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 12:57		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 12:57		1	21.8	mg/L				
* Silicon, Dissolved	4/24/23 06:27	4/28/23 12:57		1.015	10.2	mg/L	0.02030	0.25375		
* Sodium, Dissolved	4/24/23 06:27	4/28/23 14:09		10.15	76.3	mg/L	0.4060	4.06	RA	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	4/21/23 06:22	4/21/23 11:02		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	4/28/23 06:47	4/28/23 10:06		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	4/21/23 06:22	4/21/23 11:02		1.015	0.000660	mg/L	0.000112	0.000203		
* Barium, Total	4/21/23 06:22	4/21/23 11:02		1.015	0.0494	mg/L	0.000508	0.001015		
* Beryllium, Total	4/21/23 06:22	4/21/23 11:02		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/21/23 06:22	4/21/23 11:02		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/21/23 06:22	4/21/23 11:02		1.015	0.000323	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/21/23 06:22	4/21/23 11:02		1.015	0.000767	mg/L	0.000068	0.000203		
* Lead, Total	4/21/23 06:22	4/21/23 11:02		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	4/21/23 06:22	4/21/23 11:02		1.015	0.0755	mg/L	0.000152	0.001015		

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13DR

Location Code: WMWMILAP
Collected: 4/18/23 13:55
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07888

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 11:02		1.015	2.78	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 11:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 11:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 12:17		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	0.000636	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	0.0557	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	0.000351	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	0.000824	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	0.0864	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	2.99	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 15:02	4/21/23 15:02		1	0.448	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	190	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	384	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	189	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	0.550	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 13:26	4/27/23 13:26		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13DR

Location Code: WMWMILAP
Collected: 4/18/23 13:55
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07888

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:48	4/25/23 12:48		5	65.5	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:30	5/2/23 10:30		1	0.264	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 10:13	4/28/23 10:13		10	178	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/18/23 13:51	4/18/23 13:51			914.98	uS/cm			FA
pH	4/18/23 13:51	4/18/23 13:51			7.07	SU			FA
Temperature	4/18/23 13:51	4/18/23 13:51			21.26	C			FA
Turbidity	4/18/23 13:51	4/18/23 13:51			1.15	NTU			FA
Sulfide	4/18/23 13:51	4/18/23 13:51			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 13:55
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-13DR

Laboratory ID Number: BD07888

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07879	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD07879	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.107	0.104	0.105	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD07888	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0971	0.0965	0.0888	0.0850 to 0.115	97.1	70.0 to 130	0.620	20.0
BD07888	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0949	0.0962	0.0939	0.0850 to 0.115	94.9	70.0 to 130	1.36	20.0
BD07888	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.103	0.101	0.0993	0.0850 to 0.115	102	70.0 to 130	1.96	20.0
BD07888	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0914	0.0917	0.0970	0.0850 to 0.115	90.7	70.0 to 130	0.328	20.0
BD07888	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.157	0.153	0.0957	0.0850 to 0.115	101	70.0 to 130	2.58	20.0
BD07888	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.138	0.135	0.0931	0.0850 to 0.115	88.6	70.0 to 130	2.20	20.0
BD07888	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.0984	0.0970	0.0989	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD07888	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0975	0.0961	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.45	20.0
BD07888	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.06	1.07	0.983	0.850 to 1.15	101	70.0 to 130	0.939	20.0
BD07888	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.10	1.12	1.04	0.850 to 1.15	105	70.0 to 130	1.80	20.0
BD07888	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0995	0.0976	0.0966	0.0850 to 0.115	99.5	70.0 to 130	1.93	20.0
BD07888	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0876	0.0873	0.0937	0.0850 to 0.115	87.6	70.0 to 130	0.343	20.0
BD07888	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	77.0	82.9	4.97	4.25 to 5.75	136	70.0 to 130	7.38	20.0
BD07888	Calcium, Total	mg/L	0.00986	0.152	5.00	74.2	80.5	4.92	4.25 to 5.75	126	70.0 to 130	8.14	20.0
BD07892	Chloride	mg/L	0.0402	1.00	10.0	17.9	17.8	10.5	9.00 to 11.0	105	80.0 to 120	0.560	20.0
BD07888	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.0981	0.0975	0.0946	0.0850 to 0.115	97.7	70.0 to 130	0.613	20.0
BD07888	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0863	0.0868	0.0919	0.0850 to 0.115	86.0	70.0 to 130	0.578	20.0
BD07888	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.0995	0.0967	0.0944	0.0850 to 0.115	98.7	70.0 to 130	2.85	20.0
BD07888	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0876	0.0872	0.0924	0.0850 to 0.115	86.8	70.0 to 130	0.458	20.0
BD08192	Fluoride	mg/L	0.029	0.125	2.50	4.95	5.07	2.70	2.25 to 2.75	109	80.0 to 120	2.40	20.0
BD07888	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.427	0.430	0.197	0.170 to 0.230	95.5	70.0 to 130	0.700	20.0
BD07888	Iron, Total	mg/L	0.000683	0.0176	0.2	0.499	0.503	0.202	0.170 to 0.230	96.0	70.0 to 130	0.798	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 13:55
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-13DR

Laboratory ID Number: BD07888

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD07888	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD07888	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0874	0.0884	0.0936	0.0850 to 0.115	87.4	70.0 to 130	1.14	20.0
BD07888	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.233	0.232	0.189	0.170 to 0.230	98.3	70.0 to 130	0.430	20.0
BD07888	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.232	0.233	0.203	0.170 to 0.230	96.9	70.0 to 130	0.430	20.0
BD07888	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	32.3	32.4	4.82	4.25 to 5.75	100	70.0 to 130	0.309	20.0
BD07888	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	33.7	34.2	5.03	4.25 to 5.75	90.0	70.0 to 130	1.47	20.0
BD07888	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.188	0.186	0.102	0.0850 to 0.115	102	70.0 to 130	1.07	20.0
BD07888	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.163	0.159	0.0931	0.0850 to 0.115	87.5	70.0 to 130	2.48	20.0
BD07888	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00399	0.00398	0.00395	0.00340 to 0.00460	99.8	70.0 to 130	0.251	20.0
BD07888	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.198	0.200	0.197	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD07888	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.202	0.207	0.200	0.170 to 0.230	101	70.0 to 130	2.44	20.0
BD07888	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	12.7	12.6	10.2	8.50 to 11.5	97.1	70.0 to 130	0.791	20.0
BD07888	Potassium, Total	mg/L	-0.0207	0.367	10.0	11.6	11.5	9.24	8.50 to 11.5	88.2	70.0 to 130	0.866	20.0
BD07888	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD07888	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0913	0.0912	0.101	0.0850 to 0.115	91.3	70.0 to 130	0.110	20.0
BD07888	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	11.1	11.1	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07888	Silicon, Total	mg/L	0.000037	0.0440	1.00	11.2	11.3	1.02	0.850 to 1.15	90.0	70.0 to 130	0.889	20.0
BD07888	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	83.9	91.0	4.69	4.25 to 5.75	152	70.0 to 130	8.12	20.0
BD07888	Sodium, Total	mg/L	0.000514	0.0880	5.00	87.8	92.1	5.01	4.25 to 5.75	166	70.0 to 130	4.78	20.0
BD08192	Sulfate	mg/L	-0.346	2.0	20.0	28.5	28.8	20.0	18.0 to 22.0	108	80.0 to 120	1.05	20.0
BD07888	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD07888	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0868	0.0868	0.0908	0.0850 to 0.115	86.8	70.0 to 130	0.00	20.0
BD07888	Total Organic Carbon	mg/L	0.0986	1.00	10.0	8.84	10.6	22.4		88.4	80.0 to 120	18.1	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/18/23 13:55
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-13DR

Laboratory ID Number: BD07888

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07888	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.52	0.461	1.99	1.80 to 2.20	104	90.0 to 110	2.86	15.0
BD07892	Solids, Dissolved	mg/L	1.00	25.0			325	48.0	40.0 to 60.0			0.927	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-16

Location Code: WMWMILAP
Collected: 4/19/23 10:05
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07889

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 12:07		1.015	2.18	mg/L	0.030000	0.1015	
* Calcium, Total	4/21/23 06:22	4/24/23 14:27		10.15	158	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 12:07		1.015	0.330	mg/L	0.008120	0.0406	
* Lithium, Total	4/21/23 06:22	4/24/23 12:07		1.015	0.0713	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 12:07		1.015	20.1	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 12:07		1.015	0.0499	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 12:07		1	6.31	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 12:07		1.015	2.95	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 14:27		10.15	54.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/24/23 06:27	4/28/23 13:13		1.015	2.07	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/24/23 06:27	4/28/23 14:25		10.15	183	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 13:13		1.015	0.334	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 13:13		1.015	0.0691	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 13:13		1.015	19.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 13:13		1.015	0.0486	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 13:13		1	6.18	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 13:13		1.015	2.89	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 14:25		10.15	59.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 11:24		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 10:24		1.015	0.0192	mg/L	0.009135	0.05075	J
* Arsenic, Total	4/21/23 06:22	4/21/23 11:24		1.015	0.000509	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 11:24		1.015	0.0189	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 11:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 11:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 11:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 11:24		1.015	0.00240	mg/L	0.000068	0.000203	
* Lead, Total	4/21/23 06:22	4/21/23 11:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 11:24		1.015	0.677	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-16

Location Code: WMWMILAP
Collected: 4/19/23 10:05
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07889

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 11:24		1.015	9.78	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 11:24		1.015	0.00616	mg/L	0.000508	0.001015	
* Thallium, Total	4/21/23 06:22	4/21/23 11:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 12:31		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	0.000558	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	0.0222	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	0.00280	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	0.829	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	11.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	0.00674	mg/L	0.000508	0.001015	
* Thallium, Dissolved	4/24/23 06:27	4/24/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 15:11	4/21/23 15:11		1	0.673	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	55.5	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	472	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	55.5	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 15:30	4/27/23 15:30		1	1.18	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-16

Location Code: WMWMILAP
Collected: 4/19/23 10:05
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07889

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:41	4/25/23 12:41		1	5.39	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:31	5/2/23 10:31		1	0.160	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 10:14	4/28/23 10:14		32	553	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/19/23 10:00	4/19/23 10:00			1102.49	uS/cm			FA
pH	4/19/23 10:00	4/19/23 10:00			6.35	SU			FA
Temperature	4/19/23 10:00	4/19/23 10:00			19.31	C			FA
Turbidity	4/19/23 10:00	4/19/23 10:00			0.74	NTU			FA
Sulfide	4/19/23 10:00	4/19/23 10:00			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 10:05
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-16

Laboratory ID Number: BD07889

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD07889	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD07889	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.117	0.118	0.105	0.0850 to 0.115	97.8	70.0 to 130	0.851	20.0	
BD07892	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0987	0.0978	0.0888	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0	
BD07892	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0946	0.0865	0.0939	0.0850 to 0.115	94.6	70.0 to 130	8.95	20.0	
BD07892	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.102	0.100	0.0993	0.0850 to 0.115	101	70.0 to 130	1.98	20.0	
BD07892	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0931	0.0859	0.0970	0.0850 to 0.115	92.2	70.0 to 130	8.04	20.0	
BD07892	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.149	0.149	0.0957	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD07892	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.133	0.126	0.0931	0.0850 to 0.115	89.4	70.0 to 130	5.41	20.0	
BD07892	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.103	0.100	0.0989	0.0850 to 0.115	103	70.0 to 130	2.96	20.0	
BD07892	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0992	0.0957	0.101	0.0850 to 0.115	99.2	70.0 to 130	3.59	20.0	
BD07892	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.25	1.24	0.983	0.850 to 1.15	103	70.0 to 130	0.803	20.0	
BD07892	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.30	1.29	1.04	0.850 to 1.15	107	70.0 to 130	0.772	20.0	
BD07892	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0989	0.0970	0.0966	0.0850 to 0.115	98.9	70.0 to 130	1.94	20.0	
BD07892	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0897	0.0840	0.0937	0.0850 to 0.115	89.7	70.0 to 130	6.56	20.0	
BD07892	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	57.8	56.4	4.97	4.25 to 5.75	118	70.0 to 130	2.45	20.0	
BD07892	Calcium, Total	mg/L	0.00986	0.152	5.00	51.3	52.2	4.92	4.25 to 5.75	96.0	70.0 to 130	1.74	20.0	
BD07892	Chloride	mg/L	0.0402	1.00	10.0	17.9	17.8	10.5	9.00 to 11.0	105	80.0 to 120	0.560	20.0	
BD07892	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.101	0.0967	0.0946	0.0850 to 0.115	101	70.0 to 130	4.35	20.0	
BD07892	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0877	0.0812	0.0919	0.0850 to 0.115	87.7	70.0 to 130	7.70	20.0	
BD07892	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.100	0.0965	0.0944	0.0850 to 0.115	99.8	70.0 to 130	3.56	20.0	
BD07892	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0887	0.0834	0.0924	0.0850 to 0.115	88.5	70.0 to 130	6.16	20.0	
BD08192	Fluoride	mg/L	0.029	0.125	2.50	4.95	5.07	2.70	2.25 to 2.75	109	80.0 to 120	2.40	20.0	
BD07892	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.716	0.717	0.197	0.170 to 0.230	98.5	70.0 to 130	0.140	20.0	
BD07892	Iron, Total	mg/L	0.000683	0.0176	0.2	0.949	0.943	0.202	0.170 to 0.230	100	70.0 to 130	0.634	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 10:05
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-16

Laboratory ID Number: BD07889

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07892	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.106	0.102	0.103	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD07892	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0905	0.0834	0.0936	0.0850 to 0.115	90.5	70.0 to 130	8.17	20.0
BD07892	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.245	0.243	0.189	0.170 to 0.230	98.8	70.0 to 130	0.820	20.0
BD07892	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.243	0.245	0.203	0.170 to 0.230	97.2	70.0 to 130	0.820	20.0
BD07892	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	27.4	27.7	4.82	4.25 to 5.75	92.0	70.0 to 130	1.09	20.0
BD07892	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	28.3	28.5	5.03	4.25 to 5.75	92.0	70.0 to 130	0.704	20.0
BD07892	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.167	0.162	0.102	0.0850 to 0.115	105	70.0 to 130	3.04	20.0
BD07892	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.139	0.130	0.0931	0.0850 to 0.115	86.9	70.0 to 130	6.69	20.0
BD07892	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00377	0.00396	0.00395	0.00340 to 0.00460	94.2	70.0 to 130	4.92	20.0
BD07892	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.199	0.200	0.197	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD07892	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD07892	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	11.6	11.2	10.2	8.50 to 11.5	97.9	70.0 to 130	3.51	20.0
BD07892	Potassium, Total	mg/L	-0.0207	0.367	10.0	10.5	9.95	9.24	8.50 to 11.5	88.9	70.0 to 130	5.38	20.0
BD07892	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.104	0.103	0.105	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD07892	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0927	0.0863	0.101	0.0850 to 0.115	92.7	70.0 to 130	7.15	20.0
BD07892	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	17.0	17.0	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07892	Silicon, Total	mg/L	0.000037	0.0440	1.00	17.5	17.6	1.02	0.850 to 1.15	90.0	70.0 to 130	0.570	20.0
BD07892	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	43.0	42.9	4.69	4.25 to 5.75	94.0	70.0 to 130	0.233	20.0
BD07892	Sodium, Total	mg/L	0.000514	0.0880	5.00	38.8	39.2	5.01	4.25 to 5.75	72.0	70.0 to 130	1.03	20.0
BD08192	Sulfate	mg/L	-0.346	2.0	20.0	28.5	28.8	20.0	18.0 to 22.0	108	80.0 to 120	1.05	20.0
BD07892	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.108	0.103	0.104	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BD07892	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0890	0.0820	0.0908	0.0850 to 0.115	89.0	70.0 to 130	8.19	20.0
BD07892	Total Organic Carbon	mg/L	0.116	1.00	10.0	10.4	10.5	23.1		104	80.0 to 120	0.957	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 10:05
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-16

Laboratory ID Number: BD07889

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07892	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.09	0.200	2.00	2.08	-0.001	2.08	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD07892	Solids, Dissolved	mg/L	1.00	25.0			325	48.0	40.0 to 60.0			0.927	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-15

Location Code: WMWMILAP
Collected: 4/19/23 11:55
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07890

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 12:10		1.015	1.36	mg/L	0.030000	0.1015	
* Calcium, Total	4/21/23 06:22	4/24/23 14:30		10.15	66.4	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 14:30		10.15	15.9	mg/L	0.08120	0.406	
* Lithium, Total	4/21/23 06:22	4/24/23 12:10		1.015	0.0226	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 12:10		1.015	21.0	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 12:10		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 12:10		1	31.9	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 12:10		1.015	14.9	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 14:30		10.15	53.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/24/23 06:27	4/28/23 13:16		1.015	1.27	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/24/23 06:27	4/28/23 14:28		10.15	67.0	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 14:28		10.15	15.1	mg/L	0.08120	0.406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 13:16		1.015	0.0212	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 13:16		1.015	20.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 13:16		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 13:16		1	31.2	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 13:16		1.015	14.6	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 14:28		10.15	54.0	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 11:27		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 10:34		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/21/23 06:22	4/21/23 11:27		1.015	0.000728	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 11:27		1.015	0.0236	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 11:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 11:27		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 11:27		1.015	0.0118	mg/L	0.000068	0.000203	
* Lead, Total	4/21/23 06:22	4/21/23 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 11:55		5.075	1.40	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-15

Location Code: WMWMILAP
Collected: 4/19/23 11:55
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07890

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 11:27		1.015	2.16	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 11:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 12:42		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	0.000759	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	0.0273	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	0.0140	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 13:39		5.075	1.60	mg/L	0.000761	0.005075	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	2.52	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 15:12	4/21/23 15:12		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	51.3	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	428	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	51.3	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 15:45	4/27/23 15:45		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-15

Location Code: WMWMILAP
Collected: 4/19/23 11:55
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07890

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:42	4/25/23 12:42		1	17.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:32	5/2/23 10:32		1	0.119	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 10:15	4/28/23 10:15		16	281	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/19/23 11:52	4/19/23 11:52			777.28	uS/cm			FA
pH	4/19/23 11:52	4/19/23 11:52			6.33	SU			FA
Temperature	4/19/23 11:52	4/19/23 11:52			19.78	C			FA
Turbidity	4/19/23 11:52	4/19/23 11:52			4.59	NTU			FA
Sulfide	4/19/23 11:52	4/19/23 11:52			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 11:55
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-15

Laboratory ID Number: BD07890

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07889	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD07889	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.117	0.118	0.105	0.0850 to 0.115	97.8	70.0 to 130	0.851	20.0
BD07892	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0987	0.0978	0.0888	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD07892	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0946	0.0865	0.0939	0.0850 to 0.115	94.6	70.0 to 130	8.95	20.0
BD07892	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.102	0.100	0.0993	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD07892	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0931	0.0859	0.0970	0.0850 to 0.115	92.2	70.0 to 130	8.04	20.0
BD07892	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.149	0.149	0.0957	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD07892	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.133	0.126	0.0931	0.0850 to 0.115	89.4	70.0 to 130	5.41	20.0
BD07892	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.103	0.100	0.0989	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD07892	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0992	0.0957	0.101	0.0850 to 0.115	99.2	70.0 to 130	3.59	20.0
BD07892	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.25	1.24	0.983	0.850 to 1.15	103	70.0 to 130	0.803	20.0
BD07892	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.30	1.29	1.04	0.850 to 1.15	107	70.0 to 130	0.772	20.0
BD07892	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0989	0.0970	0.0966	0.0850 to 0.115	98.9	70.0 to 130	1.94	20.0
BD07892	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0897	0.0840	0.0937	0.0850 to 0.115	89.7	70.0 to 130	6.56	20.0
BD07892	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	57.8	56.4	4.97	4.25 to 5.75	118	70.0 to 130	2.45	20.0
BD07892	Calcium, Total	mg/L	0.00986	0.152	5.00	51.3	52.2	4.92	4.25 to 5.75	96.0	70.0 to 130	1.74	20.0
BD07892	Chloride	mg/L	0.0402	1.00	10.0	17.9	17.8	10.5	9.00 to 11.0	105	80.0 to 120	0.560	20.0
BD07892	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.101	0.0967	0.0946	0.0850 to 0.115	101	70.0 to 130	4.35	20.0
BD07892	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0877	0.0812	0.0919	0.0850 to 0.115	87.7	70.0 to 130	7.70	20.0
BD07892	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.100	0.0965	0.0944	0.0850 to 0.115	99.8	70.0 to 130	3.56	20.0
BD07892	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0887	0.0834	0.0924	0.0850 to 0.115	88.5	70.0 to 130	6.16	20.0
BD08192	Fluoride	mg/L	0.029	0.125	2.50	4.95	5.07	2.70	2.25 to 2.75	109	80.0 to 120	2.40	20.0
BD07892	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.716	0.717	0.197	0.170 to 0.230	98.5	70.0 to 130	0.140	20.0
BD07892	Iron, Total	mg/L	0.000683	0.0176	0.2	0.949	0.943	0.202	0.170 to 0.230	100	70.0 to 130	0.634	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 11:55
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-15

Laboratory ID Number: BD07890

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07892	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.106	0.102	0.103	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD07892	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0905	0.0834	0.0936	0.0850 to 0.115	90.5	70.0 to 130	8.17	20.0
BD07892	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.245	0.243	0.189	0.170 to 0.230	98.8	70.0 to 130	0.820	20.0
BD07892	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.243	0.245	0.203	0.170 to 0.230	97.2	70.0 to 130	0.820	20.0
BD07892	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	27.4	27.7	4.82	4.25 to 5.75	92.0	70.0 to 130	1.09	20.0
BD07892	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	28.3	28.5	5.03	4.25 to 5.75	92.0	70.0 to 130	0.704	20.0
BD07892	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.167	0.162	0.102	0.0850 to 0.115	105	70.0 to 130	3.04	20.0
BD07892	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.139	0.130	0.0931	0.0850 to 0.115	86.9	70.0 to 130	6.69	20.0
BD07892	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00377	0.00396	0.00395	0.00340 to 0.00460	94.2	70.0 to 130	4.92	20.0
BD07892	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.199	0.200	0.197	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD07892	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD07892	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	11.6	11.2	10.2	8.50 to 11.5	97.9	70.0 to 130	3.51	20.0
BD07892	Potassium, Total	mg/L	-0.0207	0.367	10.0	10.5	9.95	9.24	8.50 to 11.5	88.9	70.0 to 130	5.38	20.0
BD07892	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.104	0.103	0.105	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD07892	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0927	0.0863	0.101	0.0850 to 0.115	92.7	70.0 to 130	7.15	20.0
BD07892	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	17.0	17.0	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07892	Silicon, Total	mg/L	0.000037	0.0440	1.00	17.5	17.6	1.02	0.850 to 1.15	90.0	70.0 to 130	0.570	20.0
BD07892	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	43.0	42.9	4.69	4.25 to 5.75	94.0	70.0 to 130	0.233	20.0
BD07892	Sodium, Total	mg/L	0.000514	0.0880	5.00	38.8	39.2	5.01	4.25 to 5.75	72.0	70.0 to 130	1.03	20.0
BD08192	Sulfate	mg/L	-0.346	2.0	20.0	28.5	28.8	20.0	18.0 to 22.0	108	80.0 to 120	1.05	20.0
BD07892	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.108	0.103	0.104	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BD07892	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0890	0.0820	0.0908	0.0850 to 0.115	89.0	70.0 to 130	8.19	20.0
BD07892	Total Organic Carbon	mg/L	0.116	1.00	10.0	10.4	10.5	23.1		104	80.0 to 120	0.957	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/19/23 11:55

Customer ID:

Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-15

Laboratory ID Number: BD07890

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07892	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.09	0.200	2.00	2.08	-0.001	2.08	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD07892	Solids, Dissolved	mg/L	1.00	25.0			325	48.0	40.0 to 60.0			0.927	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-15 Dup

Location Code: WMWMILAP
Collected: 4/19/23 11:55
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07891

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 12:13		1.015	1.36	mg/L	0.030000	0.1015	
* Calcium, Total	4/21/23 06:22	4/24/23 14:33		10.15	61.6	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 14:33		10.15	15.1	mg/L	0.08120	0.406	
* Lithium, Total	4/21/23 06:22	4/24/23 12:13		1.015	0.0219	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 12:13		1.015	20.9	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 12:13		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 12:13		1	31.7	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 12:13		1.015	14.8	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 14:33		10.15	51.0	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/24/23 06:27	4/28/23 13:19		1.015	1.27	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/24/23 06:27	4/28/23 14:31		10.15	68.8	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 14:31		10.15	15.1	mg/L	0.08120	0.406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 13:19		1.015	0.0214	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 13:19		1.015	20.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 13:19		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 13:19		1	31.2	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 13:19		1.015	14.6	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 14:31		10.15	54.4	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 11:31		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 10:38		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/21/23 06:22	4/21/23 11:31		1.015	0.000777	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 11:31		1.015	0.0230	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 11:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 11:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 11:31		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 11:31		1.015	0.0126	mg/L	0.000068	0.000203	
* Lead, Total	4/21/23 06:22	4/21/23 11:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 11:59		5.075	1.43	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-15 Dup

Location Code: WMWMILAP
Collected: 4/19/23 11:55
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07891

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 11:31		1.015	2.18	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 11:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 11:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 12:46		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	0.000755	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	0.0264	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	0.0142	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 13:43		5.075	1.61	mg/L	0.000761	0.005075	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	2.51	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 15:12	4/21/23 15:12		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	44.3	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	330	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	44.3	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 15:59	4/27/23 15:59		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-15 Dup

Location Code: WMWMILAP
Collected: 4/19/23 11:55
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07891

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:43	4/25/23 12:43		1	18.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:34	5/2/23 10:34		1	0.114	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 10:16	4/28/23 10:16		16	280	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/19/23 11:52	4/19/23 11:52			777.28	uS/cm			FA
pH	4/19/23 11:52	4/19/23 11:52			6.33	SU			FA
Temperature	4/19/23 11:52	4/19/23 11:52			19.78	C			FA
Turbidity	4/19/23 11:52	4/19/23 11:52			4.59	NTU			FA
Sulfide	4/19/23 11:52	4/19/23 11:52			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 11:55
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-15 Dup

Laboratory ID Number: BD07891

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD07889	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD07889	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.117	0.118	0.105	0.0850 to 0.115	97.8	70.0 to 130	0.851	20.0	
BD07892	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0987	0.0978	0.0888	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0	
BD07892	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0946	0.0865	0.0939	0.0850 to 0.115	94.6	70.0 to 130	8.95	20.0	
BD07892	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.102	0.100	0.0993	0.0850 to 0.115	101	70.0 to 130	1.98	20.0	
BD07892	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0931	0.0859	0.0970	0.0850 to 0.115	92.2	70.0 to 130	8.04	20.0	
BD07892	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.149	0.149	0.0957	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD07892	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.133	0.126	0.0931	0.0850 to 0.115	89.4	70.0 to 130	5.41	20.0	
BD07892	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.103	0.100	0.0989	0.0850 to 0.115	103	70.0 to 130	2.96	20.0	
BD07892	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0992	0.0957	0.101	0.0850 to 0.115	99.2	70.0 to 130	3.59	20.0	
BD07892	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.25	1.24	0.983	0.850 to 1.15	103	70.0 to 130	0.803	20.0	
BD07892	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.30	1.29	1.04	0.850 to 1.15	107	70.0 to 130	0.772	20.0	
BD07892	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0989	0.0970	0.0966	0.0850 to 0.115	98.9	70.0 to 130	1.94	20.0	
BD07892	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0897	0.0840	0.0937	0.0850 to 0.115	89.7	70.0 to 130	6.56	20.0	
BD07892	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	57.8	56.4	4.97	4.25 to 5.75	118	70.0 to 130	2.45	20.0	
BD07892	Calcium, Total	mg/L	0.00986	0.152	5.00	51.3	52.2	4.92	4.25 to 5.75	96.0	70.0 to 130	1.74	20.0	
BD07892	Chloride	mg/L	0.0402	1.00	10.0	17.9	17.8	10.5	9.00 to 11.0	105	80.0 to 120	0.560	20.0	
BD07892	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.101	0.0967	0.0946	0.0850 to 0.115	101	70.0 to 130	4.35	20.0	
BD07892	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0877	0.0812	0.0919	0.0850 to 0.115	87.7	70.0 to 130	7.70	20.0	
BD07892	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.100	0.0965	0.0944	0.0850 to 0.115	99.8	70.0 to 130	3.56	20.0	
BD07892	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0887	0.0834	0.0924	0.0850 to 0.115	88.5	70.0 to 130	6.16	20.0	
BD08192	Fluoride	mg/L	0.029	0.125	2.50	4.95	5.07	2.70	2.25 to 2.75	109	80.0 to 120	2.40	20.0	
BD07892	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.716	0.717	0.197	0.170 to 0.230	98.5	70.0 to 130	0.140	20.0	
BD07892	Iron, Total	mg/L	0.000683	0.0176	0.2	0.949	0.943	0.202	0.170 to 0.230	100	70.0 to 130	0.634	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 11:55
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-15 Dup

Laboratory ID Number: BD07891

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07892	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.106	0.102	0.103	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD07892	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0905	0.0834	0.0936	0.0850 to 0.115	90.5	70.0 to 130	8.17	20.0
BD07892	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.245	0.243	0.189	0.170 to 0.230	98.8	70.0 to 130	0.820	20.0
BD07892	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.243	0.245	0.203	0.170 to 0.230	97.2	70.0 to 130	0.820	20.0
BD07892	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	27.4	27.7	4.82	4.25 to 5.75	92.0	70.0 to 130	1.09	20.0
BD07892	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	28.3	28.5	5.03	4.25 to 5.75	92.0	70.0 to 130	0.704	20.0
BD07892	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.167	0.162	0.102	0.0850 to 0.115	105	70.0 to 130	3.04	20.0
BD07892	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.139	0.130	0.0931	0.0850 to 0.115	86.9	70.0 to 130	6.69	20.0
BD07892	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00377	0.00396	0.00395	0.00340 to 0.00460	94.2	70.0 to 130	4.92	20.0
BD07892	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.199	0.200	0.197	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD07892	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD07892	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	11.6	11.2	10.2	8.50 to 11.5	97.9	70.0 to 130	3.51	20.0
BD07892	Potassium, Total	mg/L	-0.0207	0.367	10.0	10.5	9.95	9.24	8.50 to 11.5	88.9	70.0 to 130	5.38	20.0
BD07892	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.104	0.103	0.105	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD07892	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0927	0.0863	0.101	0.0850 to 0.115	92.7	70.0 to 130	7.15	20.0
BD07892	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	17.0	17.0	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07892	Silicon, Total	mg/L	0.000037	0.0440	1.00	17.5	17.6	1.02	0.850 to 1.15	90.0	70.0 to 130	0.570	20.0
BD07892	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	43.0	42.9	4.69	4.25 to 5.75	94.0	70.0 to 130	0.233	20.0
BD07892	Sodium, Total	mg/L	0.000514	0.0880	5.00	38.8	39.2	5.01	4.25 to 5.75	72.0	70.0 to 130	1.03	20.0
BD08192	Sulfate	mg/L	-0.346	2.0	20.0	28.5	28.8	20.0	18.0 to 22.0	108	80.0 to 120	1.05	20.0
BD07892	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.108	0.103	0.104	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BD07892	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0890	0.0820	0.0908	0.0850 to 0.115	89.0	70.0 to 130	8.19	20.0
BD07892	Total Organic Carbon	mg/L	0.116	1.00	10.0	10.4	10.5	23.1		104	80.0 to 120	0.957	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/19/23 11:55

Customer ID:

Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-15 Dup

Laboratory ID Number: BD07891

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07892	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.09	0.200	2.00	2.08	-0.001	2.08	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD07892	Solids, Dissolved	mg/L	1.00	25.0			325	48.0	40.0 to 60.0			0.927	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-28H

Location Code: WMWMILAP
Collected: 4/19/23 14:25
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07892

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/21/23 06:22	4/24/23 12:16		1.015	0.227	mg/L	0.030000	0.1015	
* Calcium, Total	4/21/23 06:22	4/24/23 14:37		10.15	46.5	mg/L	0.70035	4.06	
* Iron, Total	4/21/23 06:22	4/24/23 12:16		1.015	0.749	mg/L	0.008120	0.0406	
* Lithium, Total	4/21/23 06:22	4/24/23 12:16		1.015	0.0487	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/21/23 06:22	4/24/23 12:16		1.015	23.7	mg/L	0.021315	0.406	
* Molybdenum, Total	4/21/23 06:22	4/24/23 12:16		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/21/23 06:22	4/24/23 12:16		1	35.5	mg/L			
* Silicon, Total	4/21/23 06:22	4/24/23 12:16		1.015	16.6	mg/L	0.02030	0.25375	
* Sodium, Total	4/21/23 06:22	4/24/23 12:16		1.015	35.2	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/24/23 06:27	4/28/23 13:22		1.015	0.218	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/24/23 06:27	4/28/23 14:35		10.15	51.9	mg/L	0.70035	4.06	
* Iron, Dissolved	4/24/23 06:27	4/28/23 13:22		1.015	0.519	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/24/23 06:27	4/28/23 13:22		1.015	0.0473	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/24/23 06:27	4/28/23 13:22		1.015	22.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/24/23 06:27	4/28/23 13:22		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/24/23 06:27	4/28/23 13:22		1	34.5	mg/L			
* Silicon, Dissolved	4/24/23 06:27	4/28/23 13:22		1.015	16.1	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/24/23 06:27	4/28/23 13:22		1.015	38.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/21/23 06:22	4/21/23 11:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 06:47	4/28/23 10:41		1.015	0.0142	mg/L	0.009135	0.05075	J
* Arsenic, Total	4/21/23 06:22	4/21/23 11:35		1.015	0.000934	mg/L	0.000112	0.000203	
* Barium, Total	4/21/23 06:22	4/21/23 11:35		1.015	0.0436	mg/L	0.000508	0.001015	
* Beryllium, Total	4/21/23 06:22	4/21/23 11:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/21/23 06:22	4/21/23 11:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/21/23 06:22	4/21/23 11:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/21/23 06:22	4/21/23 11:35		1.015	0.000160	mg/L	0.000068	0.000203	J
* Lead, Total	4/21/23 06:22	4/21/23 11:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/21/23 06:22	4/21/23 11:35		1.015	0.0521	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-28H

Location Code: WMWMILAP
Collected: 4/19/23 14:25
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07892

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/21/23 06:22	4/21/23 11:35		1.015	1.61	mg/L	0.169505	0.5075	
* Selenium, Total	4/21/23 06:22	4/21/23 11:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/21/23 06:22	4/21/23 11:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:00	4/28/23 12:49		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	0.000872	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	0.0466	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	0.000190	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	0.0622	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	1.81	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/24/23 06:27	4/24/23 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/26/23 14:52	4/26/23 19:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/21/23 15:13	4/21/23 15:13		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/1/23 10:37	5/1/23 14:38		1	179	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	4/24/23 11:53	4/25/23 13:40		1	322	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	178	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/1/23 10:37	5/1/23 14:38		1	0.963	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	4/27/23 16:16	4/27/23 16:16		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-28H

Location Code: WMWMILAP
Collected: 4/19/23 14:25
Customer ID:
Submittal Date: 4/20/23 09:40

Laboratory ID Number: BD07892

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/25/23 12:44	4/25/23 12:44		1	7.37	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:35	5/2/23 10:35		1	0.147	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 10:18	4/28/23 10:18		4	80.4	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/19/23 14:21	4/19/23 14:21			518.24	uS/cm			FA
pH	4/19/23 14:21	4/19/23 14:21			6.81	SU			FA
Temperature	4/19/23 14:21	4/19/23 14:21			22.45	C			FA
Turbidity	4/19/23 14:21	4/19/23 14:21			2.75	NTU			FA
Sulfide	4/19/23 14:21	4/19/23 14:21			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 14:25
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-28H

Laboratory ID Number: BD07892

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD07889	Aluminum, Dissolved	mg/L	0.000741	0.0198	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD07889	Aluminum, Total	mg/L	0.00301	0.0198	0.100	0.117	0.118	0.105	0.0850 to 0.115	97.8	70.0 to 130	0.851	20.0	
BD07892	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0987	0.0978	0.0888	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0	
BD07892	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0946	0.0865	0.0939	0.0850 to 0.115	94.6	70.0 to 130	8.95	20.0	
BD07892	Arsenic, Dissolved	mg/L	0.0000111	0.000200	0.100	0.102	0.100	0.0993	0.0850 to 0.115	101	70.0 to 130	1.98	20.0	
BD07892	Arsenic, Total	mg/L	0.0000337	0.000200	0.100	0.0931	0.0859	0.0970	0.0850 to 0.115	92.2	70.0 to 130	8.04	20.0	
BD07892	Barium, Dissolved	mg/L	0.0000287	0.00100	0.100	0.149	0.149	0.0957	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD07892	Barium, Total	mg/L	0.0000318	0.00100	0.100	0.133	0.126	0.0931	0.0850 to 0.115	89.4	70.0 to 130	5.41	20.0	
BD07892	Beryllium, Dissolved	mg/L	0.0000266	0.000880	0.100	0.103	0.100	0.0989	0.0850 to 0.115	103	70.0 to 130	2.96	20.0	
BD07892	Beryllium, Total	mg/L	0.0000131	0.000880	0.100	0.0992	0.0957	0.101	0.0850 to 0.115	99.2	70.0 to 130	3.59	20.0	
BD07892	Boron, Dissolved	mg/L	-0.000337	0.0650	1.00	1.25	1.24	0.983	0.850 to 1.15	103	70.0 to 130	0.803	20.0	
BD07892	Boron, Total	mg/L	-0.00317	0.0650	1.00	1.30	1.29	1.04	0.850 to 1.15	107	70.0 to 130	0.772	20.0	
BD07892	Cadmium, Dissolved	mg/L	0.0000079	0.000147	0.100	0.0989	0.0970	0.0966	0.0850 to 0.115	98.9	70.0 to 130	1.94	20.0	
BD07892	Cadmium, Total	mg/L	0.0000046	0.000147	0.100	0.0897	0.0840	0.0937	0.0850 to 0.115	89.7	70.0 to 130	6.56	20.0	
BD07892	Calcium, Dissolved	mg/L	0.00522	0.152	5.00	57.8	56.4	4.97	4.25 to 5.75	118	70.0 to 130	2.45	20.0	
BD07892	Calcium, Total	mg/L	0.00986	0.152	5.00	51.3	52.2	4.92	4.25 to 5.75	96.0	70.0 to 130	1.74	20.0	
BD07892	Chloride	mg/L	0.0402	1.00	10.0	17.9	17.8	10.5	9.00 to 11.0	105	80.0 to 120	0.560	20.0	
BD07892	Chromium, Dissolved	mg/L	0.0000076	0.000440	0.100	0.101	0.0967	0.0946	0.0850 to 0.115	101	70.0 to 130	4.35	20.0	
BD07892	Chromium, Total	mg/L	0.0000228	0.000440	0.100	0.0877	0.0812	0.0919	0.0850 to 0.115	87.7	70.0 to 130	7.70	20.0	
BD07892	Cobalt, Dissolved	mg/L	-0.0000022	0.000147	0.100	0.100	0.0965	0.0944	0.0850 to 0.115	99.8	70.0 to 130	3.56	20.0	
BD07892	Cobalt, Total	mg/L	-0.0000036	0.000147	0.100	0.0887	0.0834	0.0924	0.0850 to 0.115	88.5	70.0 to 130	6.16	20.0	
BD08192	Fluoride	mg/L	0.029	0.125	2.50	4.95	5.07	2.70	2.25 to 2.75	109	80.0 to 120	2.40	20.0	
BD07892	Iron, Dissolved	mg/L	0.000223	0.0176	0.2	0.716	0.717	0.197	0.170 to 0.230	98.5	70.0 to 130	0.140	20.0	
BD07892	Iron, Total	mg/L	0.000683	0.0176	0.2	0.949	0.943	0.202	0.170 to 0.230	100	70.0 to 130	0.634	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 14:25
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-28H

Laboratory ID Number: BD07892

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD07892	Lead, Dissolved	mg/L	0.0000204	0.000147	0.100	0.106	0.102	0.103	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD07892	Lead, Total	mg/L	0.0000080	0.000147	0.100	0.0905	0.0834	0.0936	0.0850 to 0.115	90.5	70.0 to 130	8.17	20.0
BD07892	Lithium, Dissolved	mg/L	0.000128	0.0154	0.200	0.245	0.243	0.189	0.170 to 0.230	98.8	70.0 to 130	0.820	20.0
BD07892	Lithium, Total	mg/L	0.000594	0.0154	0.200	0.243	0.245	0.203	0.170 to 0.230	97.2	70.0 to 130	0.820	20.0
BD07892	Magnesium, Dissolved	mg/L	0.00624	0.0462	5.00	27.4	27.7	4.82	4.25 to 5.75	92.0	70.0 to 130	1.09	20.0
BD07892	Magnesium, Total	mg/L	-0.00822	0.0462	5.00	28.3	28.5	5.03	4.25 to 5.75	92.0	70.0 to 130	0.704	20.0
BD07892	Manganese, Dissolved	mg/L	-0.0000201	0.00033	0.100	0.167	0.162	0.102	0.0850 to 0.115	105	70.0 to 130	3.04	20.0
BD07892	Manganese, Total	mg/L	-0.0000021	0.00033	0.100	0.139	0.130	0.0931	0.0850 to 0.115	86.9	70.0 to 130	6.69	20.0
BD07892	Mercury, Total by CVAA	mg/L	-4.000E-05	0.000500	0.004	0.00377	0.00396	0.00395	0.00340 to 0.00460	94.2	70.0 to 130	4.92	20.0
BD07892	Molybdenum, Dissolved	mg/L	0.000267	0.0100	0.2	0.199	0.200	0.197	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD07892	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD07892	Potassium, Dissolved	mg/L	0.0120	0.367	10.0	11.6	11.2	10.2	8.50 to 11.5	97.9	70.0 to 130	3.51	20.0
BD07892	Potassium, Total	mg/L	-0.0207	0.367	10.0	10.5	9.95	9.24	8.50 to 11.5	88.9	70.0 to 130	5.38	20.0
BD07892	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.104	0.103	0.105	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD07892	Selenium, Total	mg/L	0.000275	0.00100	0.100	0.0927	0.0863	0.101	0.0850 to 0.115	92.7	70.0 to 130	7.15	20.0
BD07892	Silicon, Dissolved	mg/L	-0.00137	0.0440	1.00	17.0	17.0	1.00	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BD07892	Silicon, Total	mg/L	0.000037	0.0440	1.00	17.5	17.6	1.02	0.850 to 1.15	90.0	70.0 to 130	0.570	20.0
BD07892	Sodium, Dissolved	mg/L	0.00350	0.0880	5.00	43.0	42.9	4.69	4.25 to 5.75	94.0	70.0 to 130	0.233	20.0
BD07892	Sodium, Total	mg/L	0.000514	0.0880	5.00	38.8	39.2	5.01	4.25 to 5.75	72.0	70.0 to 130	1.03	20.0
BD08192	Sulfate	mg/L	-0.346	2.0	20.0	28.5	28.8	20.0	18.0 to 22.0	108	80.0 to 120	1.05	20.0
BD07892	Thallium, Dissolved	mg/L	0.0000033	0.000147	0.100	0.108	0.103	0.104	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BD07892	Thallium, Total	mg/L	0.0000015	0.000147	0.100	0.0890	0.0820	0.0908	0.0850 to 0.115	89.0	70.0 to 130	8.19	20.0
BD07892	Total Organic Carbon	mg/L	0.116	1.00	10.0	10.4	10.5	23.1		104	80.0 to 120	0.957	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/19/23 14:25
Customer ID:
Delivery Date: 4/20/23 09:40

Description: Miller Ash Pond - MW-28H

Laboratory ID Number: BD07892

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD07890	Alkalinity	mg CaCO3/L					50.3	50.7	45.0 to 55.0			1.97	10.0
BD07892	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.09	0.200	2.00	2.08	-0.001	2.08	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD07892	Solids, Dissolved	mg/L	1.00	25.0			325	48.0	40.0 to 60.0			0.927	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7DR

Location Code: WMWMILAP
Collected: 4/24/23 10:56
Customer ID:
Submittal Date: 4/27/23 10:00

Laboratory ID Number: BD08188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 11:28		1.015	0.746	mg/L	0.030000	0.1015	
* Calcium, Total	4/28/23 11:51	5/3/23 13:37		10.15	133	mg/L	0.70035	4.06	
* Iron, Total	4/28/23 11:51	5/3/23 11:28		1.015	2.13	mg/L	0.008120	0.0406	
* Lithium, Total	4/28/23 11:51	5/3/23 11:28		1.015	0.124	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 11:28		1.015	37.9	mg/L	0.021315	0.406	
* Molybdenum, Total	4/28/23 11:51	5/3/23 11:28		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 11:28		1	14.4	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 11:28		1.015	6.75	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 13:37		10.15	74.6	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/28/23 08:55	5/3/23 11:57		1.015	0.757	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/28/23 08:55	5/3/23 13:31		10.15	141	mg/L	0.70035	4.06	
* Iron, Dissolved	4/28/23 08:55	5/3/23 11:57		1.015	2.09	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/28/23 08:55	5/3/23 11:57		1.015	0.102	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 11:57		1.015	38.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 11:57		1.015	0.00518	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 11:57		1	14.2	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 11:57		1.015	6.65	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 13:31		10.15	78.0	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:02		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/28/23 11:51	4/28/23 17:02		1.015	0.000465	mg/L	0.000112	0.000203	
* Barium, Total	4/28/23 11:51	4/28/23 17:02		1.015	0.0277	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 17:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/28/23 11:51	4/28/23 17:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	4/28/23 17:02		1.015	1.20	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7DR

Location Code: WMWMILAP
Collected: 4/24/23 10:56
Customer ID:
Submittal Date: 4/27/23 10:00

Laboratory ID Number: BD08188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 17:02		1.015	2.93	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 17:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	0.000434	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	0.0272	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	1.14	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	2.76	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 22:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:05	4/28/23 16:05		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/4/23 14:06	5/4/23 14:40		1	146	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/27/23 13:15	5/1/23 10:20		1	806	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/4/23 14:06	5/4/23 14:40		1	146	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/4/23 14:06	5/4/23 14:40		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 12:46	5/3/23 12:46		1	1.64	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7DR

Location Code: WMWMILAP
Collected: 4/24/23 10:56
Customer ID:
Submittal Date: 4/27/23 10:00

Laboratory ID Number: BD08188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 13:20	5/1/23 13:20		8	52.6	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:36	5/2/23 10:36		1	0.115	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 10:19	4/28/23 10:19		20	421	mg/L	12.0	40	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/24/23 10:53	4/24/23 10:53			1170.75	uS/cm			FA
pH	4/24/23 10:53	4/24/23 10:53			6.70	SU			FA
Temperature	4/24/23 10:53	4/24/23 10:53			16.57	C			FA
Turbidity	4/24/23 10:53	4/24/23 10:53			2.1	NTU			FA
Sulfide	4/24/23 10:53	4/24/23 10:53			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 10:56
Customer ID:
Delivery Date: 4/27/23 10:00

Description: Miller Ash Pond - MW-7DR

Laboratory ID Number: BD08188

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD08199	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08197	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD08199	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0960	0.0967	0.0905	0.0850 to 0.115	96.0	70.0 to 130	0.727	20.0
BD08197	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0909	0.0894	0.0913	0.0850 to 0.115	90.9	70.0 to 130	1.66	20.0
BD08199	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.0998	0.0988	0.0965	0.0850 to 0.115	98.3	70.0 to 130	1.01	20.0
BD08197	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0995	0.0977	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.83	20.0
BD08199	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.129	0.127	0.103	0.0850 to 0.115	104	70.0 to 130	1.56	20.0
BD08197	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.105	0.103	0.105	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD08199	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0990	0.0969	0.0997	0.0850 to 0.115	99.0	70.0 to 130	2.14	20.0
BD08197	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0986	0.0958	0.0983	0.0850 to 0.115	98.6	70.0 to 130	2.88	20.0
BD08199	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.11	1.11	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08197	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	0.991	1.00	1.01	0.850 to 1.15	99.1	70.0 to 130	0.904	20.0
BD08199	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0996	0.0996	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.00	20.0
BD08197	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0994	0.0973	0.0991	0.0850 to 0.115	99.4	70.0 to 130	2.14	20.0
BD08199	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	31.4	31.5	5.25	4.25 to 5.75	98.0	70.0 to 130	0.318	20.0
BD08197	Calcium, Total	mg/L	0.00486	0.152	5.00	5.05	5.07	5.08	4.25 to 5.75	101	70.0 to 130	0.395	20.0
BD08197	Chloride	mg/L	0.0754	1.00	10.0	10.5	10.6	10.5	9.00 to 11.0	105	80.0 to 120	0.948	20.0
BD08199	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0978	0.0977	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.102	20.0
BD08197	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.100	0.100	0.0997	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD08199	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08192	Fluoride	mg/L	0.029	0.125	2.50	4.95	5.07	2.70	2.25 to 2.75	109	80.0 to 120	2.40	20.0
BD08199	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	0.418	0.417	0.205	0.170 to 0.230	97.5	70.0 to 130	0.240	20.0
BD08197	Iron, Total	mg/L	-0.00309	0.0176	0.2	0.201	0.198	0.201	0.170 to 0.230	100	70.0 to 130	1.50	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 10:56
Customer ID:
Delivery Date: 4/27/23 10:00

Description: Miller Ash Pond - MW-7DR

Laboratory ID Number: BD08188

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD08197	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD08199	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.454	0.448	0.198	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BD08197	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.191	0.192	0.193	0.170 to 0.230	95.5	70.0 to 130	0.522	20.0
BD08199	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	14.4	14.3	5.06	4.25 to 5.75	99.4	70.0 to 130	0.697	20.0
BD08197	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	4.84	4.86	4.88	4.25 to 5.75	96.8	70.0 to 130	0.412	20.0
BD08199	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.133	0.132	0.103	0.0850 to 0.115	100	70.0 to 130	0.755	20.0
BD08197	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00376	0.00394	0.00395	0.00340 to 0.00460	94.0	70.0 to 130	4.68	20.0
BD08199	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.274	0.274	0.202	0.170 to 0.230	97.8	70.0 to 130	0.00	20.0
BD08197	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD08199	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	25.6	25.9	10.3	8.50 to 11.5	98.0	70.0 to 130	1.17	20.0
BD08197	Potassium, Total	mg/L	0.0148	0.367	10.0	10.4	10.3	10.3	8.50 to 11.5	104	70.0 to 130	0.966	20.0
BD08199	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.0986	0.101	0.0999	0.0850 to 0.115	98.6	70.0 to 130	2.40	20.0
BD08197	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0962	0.0941	0.0946	0.0850 to 0.115	96.2	70.0 to 130	2.21	20.0
BD08199	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.12	7.20	1.03	0.850 to 1.15	97.0	70.0 to 130	1.12	20.0
BD08197	Silicon, Total	mg/L	-0.00123	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD08199	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	514	497	4.87	4.25 to 5.75	40.0	70.0 to 130	3.36	20.0
BD08197	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.72	4.76	4.69	4.25 to 5.75	93.2	70.0 to 130	0.844	20.0
BD08192	Sulfate	mg/L	-0.346	2.0	20.0	28.5	28.8	20.0	18.0 to 22.0	108	80.0 to 120	1.05	20.0
BD08199	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD08197	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08197	Total Organic Carbon	mg/L	0.0742	1.00	10.0	9.44	9.37	8.78		94.4	80.0 to 120	0.744	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 10:56
Customer ID:
Delivery Date: 4/27/23 10:00

Description: Miller Ash Pond - MW-7DR

Laboratory ID Number: BD08188

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08198	Alkalinity	mg CaCO3/L					245	51.2	45.0 to 55.0			1.62	10.0
BD08197	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.19	0.089	2.17	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD08198	Solids, Dissolved	mg/L	1.00	25.0			830	51.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-2

Location Code: WMWMILAPFB
Collected: 4/24/23 11:25
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 11:32		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/28/23 11:51	5/3/23 11:32		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/28/23 11:51	5/3/23 11:32		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/28/23 11:51	5/3/23 11:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/28/23 11:51	5/3/23 11:32		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	4/28/23 11:51	5/3/23 11:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 11:32		1	Not Detected	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 11:32		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/28/23 11:51	5/3/23 11:32		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 22:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:06	4/28/23 16:06		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/27/23 13:15	5/1/23 10:20		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-2

Location Code: WMWMILAPFB
Collected: 4/24/23 11:25
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 13:00	5/3/23 13:00		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 13:07	5/1/23 13:07		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:37	5/2/23 10:37		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 10:20	4/28/23 10:20		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 4/24/23 11:25
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond Field Blank-2

Laboratory ID Number: BD08189

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08197	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD08197	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0909	0.0894	0.0913	0.0850 to 0.115	90.9	70.0 to 130	1.66	20.0
BD08197	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0995	0.0977	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.83	20.0
BD08197	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.105	0.103	0.105	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD08197	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0986	0.0958	0.0983	0.0850 to 0.115	98.6	70.0 to 130	2.88	20.0
BD08197	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	0.991	1.00	1.01	0.850 to 1.15	99.1	70.0 to 130	0.904	20.0
BD08197	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0994	0.0973	0.0991	0.0850 to 0.115	99.4	70.0 to 130	2.14	20.0
BD08197	Calcium, Total	mg/L	0.00486	0.152	5.00	5.05	5.07	5.08	4.25 to 5.75	101	70.0 to 130	0.395	20.0
BD08197	Chloride	mg/L	0.0754	1.00	10.0	10.5	10.6	10.5	9.00 to 11.0	105	80.0 to 120	0.948	20.0
BD08197	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.100	0.100	0.0997	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD08197	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08192	Fluoride	mg/L	0.029	0.125	2.50	4.95	5.07	2.70	2.25 to 2.75	109	80.0 to 120	2.40	20.0
BD08197	Iron, Total	mg/L	-0.00309	0.0176	0.2	0.201	0.198	0.201	0.170 to 0.230	100	70.0 to 130	1.50	20.0
BD08197	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD08197	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.191	0.192	0.193	0.170 to 0.230	95.5	70.0 to 130	0.522	20.0
BD08197	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	4.84	4.86	4.88	4.25 to 5.75	96.8	70.0 to 130	0.412	20.0
BD08197	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00376	0.00394	0.00395	0.00340 to 0.00460	94.0	70.0 to 130	4.68	20.0
BD08197	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD08197	Potassium, Total	mg/L	0.0148	0.367	10.0	10.4	10.3	10.3	8.50 to 11.5	104	70.0 to 130	0.966	20.0
BD08197	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0962	0.0941	0.0946	0.0850 to 0.115	96.2	70.0 to 130	2.21	20.0
BD08197	Silicon, Total	mg/L	-0.00123	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD08197	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.72	4.76	4.69	4.25 to 5.75	93.2	70.0 to 130	0.844	20.0
BD08192	Sulfate	mg/L	-0.346	2.0	20.0	28.5	28.8	20.0	18.0 to 22.0	108	80.0 to 120	1.05	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 4/24/23 11:25
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond Field Blank-2

Laboratory ID Number: BD08189

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD08197	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08197	Total Organic Carbon	mg/L	0.0742	1.00	10.0	9.44	9.37	8.78		94.4	80.0 to 120	0.744	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 4/24/23 11:25

Customer ID:

Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond Field Blank-2

Laboratory ID Number: BD08189

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08197	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.19	0.089	2.17	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD08198	Solids, Dissolved	mg/L	1.00	25.0			830	51.0	40.0 to 60.0			0.00	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-7SR

Location Code: WMWMILAP
Collected: 4/24/23 12:08
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 11:35		1.015	0.672	mg/L	0.030000	0.1015	
* Calcium, Total	4/28/23 11:51	5/3/23 13:41		10.15	96.4	mg/L	0.70035	4.06	
* Iron, Total	4/28/23 11:51	5/3/23 13:41		10.15	7.30	mg/L	0.08120	0.406	
* Lithium, Total	4/28/23 11:51	5/3/23 11:35		1.015	0.173	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 11:35		1.015	37.5	mg/L	0.021315	0.406	
* Molybdenum, Total	4/28/23 11:51	5/3/23 11:35		1.015	0.0282	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 11:35		1	21.8	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 11:35		1.015	10.2	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 13:41		10.15	52.0	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:00		1.015	0.677	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/28/23 08:55	5/3/23 13:34		10.15	101	mg/L	0.70035	4.06	
* Iron, Dissolved	4/28/23 08:55	5/3/23 13:34		10.15	7.53	mg/L	0.08120	0.406	
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:00		1.015	0.151	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 12:00		1.015	38.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:00		1.015	0.0297	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:00		1	21.4	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:00		1.015	10.0	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 13:34		10.15	57.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:09		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:09		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/28/23 11:51	4/28/23 17:09		1.015	0.00156	mg/L	0.000112	0.000203	
* Barium, Total	4/28/23 11:51	4/28/23 17:09		1.015	0.0394	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:09		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 17:09		1.015	0.00152	mg/L	0.000068	0.000203	
* Lead, Total	4/28/23 11:51	4/28/23 17:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	5/1/23 11:13		5.075	1.39	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7SR

Location Code: WMWMILAP
Collected: 4/24/23 12:08
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 17:09		1.015	2.99	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 17:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	0.00156	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	0.0382	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	0.00144	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	5/1/23 11:13		5.075	1.39	mg/L	0.000761	0.005075	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	2.98	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 22:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:08	4/28/23 16:08		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/4/23 14:06	5/4/23 14:40		1	180	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/27/23 13:15	5/1/23 10:20		1	640	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/4/23 14:06	5/4/23 14:40		1	180	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/4/23 14:06	5/4/23 14:40		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 13:15	5/3/23 13:15		1	1.86	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7SR

Location Code: WMWMILAP
Collected: 4/24/23 12:08
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 13:22	5/1/23 13:22		2	24.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:38	5/2/23 10:38		1	0.195	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 10:21	4/28/23 10:21		16	293	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/24/23 12:05	4/24/23 12:05			908.65	uS/cm			FA
pH	4/24/23 12:05	4/24/23 12:05			6.54	SU			FA
Temperature	4/24/23 12:05	4/24/23 12:05			16.41	C			FA
Turbidity	4/24/23 12:05	4/24/23 12:05			4.91	NTU			FA
Sulfide	4/24/23 12:05	4/24/23 12:05			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 12:08
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-7SR

Laboratory ID Number: BD08190

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08197	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD08199	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0960	0.0967	0.0905	0.0850 to 0.115	96.0	70.0 to 130	0.727	20.0
BD08197	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0909	0.0894	0.0913	0.0850 to 0.115	90.9	70.0 to 130	1.66	20.0
BD08199	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.0998	0.0988	0.0965	0.0850 to 0.115	98.3	70.0 to 130	1.01	20.0
BD08197	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0995	0.0977	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.83	20.0
BD08199	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.129	0.127	0.103	0.0850 to 0.115	104	70.0 to 130	1.56	20.0
BD08197	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.105	0.103	0.105	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD08199	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0990	0.0969	0.0997	0.0850 to 0.115	99.0	70.0 to 130	2.14	20.0
BD08197	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0986	0.0958	0.0983	0.0850 to 0.115	98.6	70.0 to 130	2.88	20.0
BD08199	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.11	1.11	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08197	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	0.991	1.00	1.01	0.850 to 1.15	99.1	70.0 to 130	0.904	20.0
BD08199	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0996	0.0996	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.00	20.0
BD08197	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0994	0.0973	0.0991	0.0850 to 0.115	99.4	70.0 to 130	2.14	20.0
BD08199	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	31.4	31.5	5.25	4.25 to 5.75	98.0	70.0 to 130	0.318	20.0
BD08197	Calcium, Total	mg/L	0.00486	0.152	5.00	5.05	5.07	5.08	4.25 to 5.75	101	70.0 to 130	0.395	20.0
BD08197	Chloride	mg/L	0.0754	1.00	10.0	10.5	10.6	10.5	9.00 to 11.0	105	80.0 to 120	0.948	20.0
BD08199	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0978	0.0977	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.102	20.0
BD08197	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.100	0.100	0.0997	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD08199	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08192	Fluoride	mg/L	0.029	0.125	2.50	4.95	5.07	2.70	2.25 to 2.75	109	80.0 to 120	2.40	20.0
BD08199	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	0.418	0.417	0.205	0.170 to 0.230	97.5	70.0 to 130	0.240	20.0
BD08197	Iron, Total	mg/L	-0.00309	0.0176	0.2	0.201	0.198	0.201	0.170 to 0.230	100	70.0 to 130	1.50	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 12:08
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-7SR

Laboratory ID Number: BD08190

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD08197	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD08199	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.454	0.448	0.198	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BD08197	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.191	0.192	0.193	0.170 to 0.230	95.5	70.0 to 130	0.522	20.0
BD08199	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	14.4	14.3	5.06	4.25 to 5.75	99.4	70.0 to 130	0.697	20.0
BD08197	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	4.84	4.86	4.88	4.25 to 5.75	96.8	70.0 to 130	0.412	20.0
BD08199	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.133	0.132	0.103	0.0850 to 0.115	100	70.0 to 130	0.755	20.0
BD08197	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00376	0.00394	0.00395	0.00340 to 0.00460	94.0	70.0 to 130	4.68	20.0
BD08199	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.274	0.274	0.202	0.170 to 0.230	97.8	70.0 to 130	0.00	20.0
BD08197	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD08199	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	25.6	25.9	10.3	8.50 to 11.5	98.0	70.0 to 130	1.17	20.0
BD08197	Potassium, Total	mg/L	0.0148	0.367	10.0	10.4	10.3	10.3	8.50 to 11.5	104	70.0 to 130	0.966	20.0
BD08199	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.0986	0.101	0.0999	0.0850 to 0.115	98.6	70.0 to 130	2.40	20.0
BD08197	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0962	0.0941	0.0946	0.0850 to 0.115	96.2	70.0 to 130	2.21	20.0
BD08199	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.12	7.20	1.03	0.850 to 1.15	97.0	70.0 to 130	1.12	20.0
BD08197	Silicon, Total	mg/L	-0.00123	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD08199	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	514	497	4.87	4.25 to 5.75	40.0	70.0 to 130	3.36	20.0
BD08197	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.72	4.76	4.69	4.25 to 5.75	93.2	70.0 to 130	0.844	20.0
BD08192	Sulfate	mg/L	-0.346	2.0	20.0	28.5	28.8	20.0	18.0 to 22.0	108	80.0 to 120	1.05	20.0
BD08199	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD08197	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08197	Total Organic Carbon	mg/L	0.0742	1.00	10.0	9.44	9.37	8.78		94.4	80.0 to 120	0.744	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 12:08
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-7SR

Laboratory ID Number: BD08190

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08198	Alkalinity	mg CaCO3/L					245	51.2	45.0 to 55.0			1.62	10.0
BD08197	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.19	0.089	2.17	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD08198	Solids, Dissolved	mg/L	1.00	25.0			830	51.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6V

Location Code: WMWMILAP
Collected: 4/24/23 14:42
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08191

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 11:39		1.015	0.350	mg/L	0.030000	0.1015	
* Calcium, Total	4/28/23 11:51	5/3/23 13:44		10.15	91.4	mg/L	0.70035	4.06	
* Iron, Total	4/28/23 11:51	5/3/23 11:39		1.015	0.645	mg/L	0.008120	0.0406	
* Lithium, Total	4/28/23 11:51	5/3/23 11:39		1.015	0.0866	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 11:39		1.015	23.8	mg/L	0.021315	0.406	
* Molybdenum, Total	4/28/23 11:51	5/3/23 11:39		1.015	0.00758	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 11:39		1	16.1	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 11:39		1.015	7.52	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 13:44		10.15	97.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:04		1.015	0.360	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/28/23 08:55	5/3/23 13:38		10.15	91.3	mg/L	0.70035	4.06	
* Iron, Dissolved	4/28/23 08:55	5/3/23 12:04		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:04		1.015	0.0754	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 12:04		1.015	23.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:04		1.015	0.00932	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:04		1	15.3	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:04		1.015	7.13	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 13:38		10.15	90.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:12		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:12		1.015	0.440	mg/L	0.009135	0.05075	
* Arsenic, Total	4/28/23 11:51	4/28/23 17:12		1.015	0.00120	mg/L	0.000112	0.000203	
* Barium, Total	4/28/23 11:51	4/28/23 17:12		1.015	0.0301	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:12		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/28/23 11:51	4/28/23 17:12		1.015	0.000254	mg/L	0.000068	0.000203	
* Lead, Total	4/28/23 11:51	4/28/23 17:12		1.015	0.000991	mg/L	0.000068	0.000203	
* Manganese, Total	4/28/23 11:51	4/28/23 17:12		1.015	0.0961	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6V

Location Code: WMWMILAP
Collected: 4/24/23 14:42
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08191

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 17:12		1.015	3.52	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 17:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	0.000756	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	0.0240	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	0.0000971	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	0.0767	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	3.16	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 22:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:14	4/28/23 16:14		1	0.364	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/4/23 14:06	5/4/23 14:40		1	207	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/27/23 13:15	5/1/23 10:20		1	656	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/4/23 14:06	5/4/23 14:40		1	203	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/4/23 14:06	5/4/23 14:40		1	3.64	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 13:33	5/3/23 13:33		1	1.26	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6V

Location Code: WMWMILAP
Collected: 4/24/23 14:42
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08191

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 13:23	5/1/23 13:23		8	55.3	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:40	5/2/23 10:40		1	0.185	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 10:22	4/28/23 10:22		12	233	mg/L	7.2	24	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/24/23 14:39	4/24/23 14:39			981.13	uS/cm			FA
pH	4/24/23 14:39	4/24/23 14:39			7.98	SU			FA
Temperature	4/24/23 14:39	4/24/23 14:39			21.78	C			FA
Turbidity	4/24/23 14:39	4/24/23 14:39			9.34	NTU			FA
Sulfide	4/24/23 14:39	4/24/23 14:39			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 14:42
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: BD08191

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08197	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD08199	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0960	0.0967	0.0905	0.0850 to 0.115	96.0	70.0 to 130	0.727	20.0
BD08197	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0909	0.0894	0.0913	0.0850 to 0.115	90.9	70.0 to 130	1.66	20.0
BD08199	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.0998	0.0988	0.0965	0.0850 to 0.115	98.3	70.0 to 130	1.01	20.0
BD08197	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0995	0.0977	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.83	20.0
BD08199	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.129	0.127	0.103	0.0850 to 0.115	104	70.0 to 130	1.56	20.0
BD08197	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.105	0.103	0.105	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD08199	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0990	0.0969	0.0997	0.0850 to 0.115	99.0	70.0 to 130	2.14	20.0
BD08197	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0986	0.0958	0.0983	0.0850 to 0.115	98.6	70.0 to 130	2.88	20.0
BD08199	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.11	1.11	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08197	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	0.991	1.00	1.01	0.850 to 1.15	99.1	70.0 to 130	0.904	20.0
BD08199	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0996	0.0996	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.00	20.0
BD08197	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0994	0.0973	0.0991	0.0850 to 0.115	99.4	70.0 to 130	2.14	20.0
BD08199	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	31.4	31.5	5.25	4.25 to 5.75	98.0	70.0 to 130	0.318	20.0
BD08197	Calcium, Total	mg/L	0.00486	0.152	5.00	5.05	5.07	5.08	4.25 to 5.75	101	70.0 to 130	0.395	20.0
BD08197	Chloride	mg/L	0.0754	1.00	10.0	10.5	10.6	10.5	9.00 to 11.0	105	80.0 to 120	0.948	20.0
BD08199	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0978	0.0977	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.102	20.0
BD08197	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.100	0.100	0.0997	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD08199	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08192	Fluoride	mg/L	0.029	0.125	2.50	4.95	5.07	2.70	2.25 to 2.75	109	80.0 to 120	2.40	20.0
BD08199	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	0.418	0.417	0.205	0.170 to 0.230	97.5	70.0 to 130	0.240	20.0
BD08197	Iron, Total	mg/L	-0.00309	0.0176	0.2	0.201	0.198	0.201	0.170 to 0.230	100	70.0 to 130	1.50	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 14:42
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: BD08191

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD08199	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD08197	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD08199	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.454	0.448	0.198	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BD08197	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.191	0.192	0.193	0.170 to 0.230	95.5	70.0 to 130	0.522	20.0
BD08199	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	14.4	14.3	5.06	4.25 to 5.75	99.4	70.0 to 130	0.697	20.0
BD08197	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	4.84	4.86	4.88	4.25 to 5.75	96.8	70.0 to 130	0.412	20.0
BD08199	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.133	0.132	0.103	0.0850 to 0.115	100	70.0 to 130	0.755	20.0
BD08197	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00376	0.00394	0.00395	0.00340 to 0.00460	94.0	70.0 to 130	4.68	20.0
BD08199	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.274	0.274	0.202	0.170 to 0.230	97.8	70.0 to 130	0.00	20.0
BD08197	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD08199	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	25.6	25.9	10.3	8.50 to 11.5	98.0	70.0 to 130	1.17	20.0
BD08197	Potassium, Total	mg/L	0.0148	0.367	10.0	10.4	10.3	10.3	8.50 to 11.5	104	70.0 to 130	0.966	20.0
BD08199	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.0986	0.101	0.0999	0.0850 to 0.115	98.6	70.0 to 130	2.40	20.0
BD08197	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0962	0.0941	0.0946	0.0850 to 0.115	96.2	70.0 to 130	2.21	20.0
BD08199	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.12	7.20	1.03	0.850 to 1.15	97.0	70.0 to 130	1.12	20.0
BD08197	Silicon, Total	mg/L	-0.00123	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD08199	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	514	497	4.87	4.25 to 5.75	40.0	70.0 to 130	3.36	20.0
BD08197	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.72	4.76	4.69	4.25 to 5.75	93.2	70.0 to 130	0.844	20.0
BD08192	Sulfate	mg/L	-0.346	2.0	20.0	28.5	28.8	20.0	18.0 to 22.0	108	80.0 to 120	1.05	20.0
BD08199	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD08197	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08197	Total Organic Carbon	mg/L	0.0742	1.00	10.0	9.44	9.37	8.78		94.4	80.0 to 120	0.744	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/24/23 14:42

Customer ID:

Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: BD08191

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08198	Alkalinity	mg CaCO3/L					245	51.2	45.0 to 55.0			1.62	10.0
BD08197	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.19	0.089	2.17	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD08198	Solids, Dissolved	mg/L	1.00	25.0			830	51.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - PZ-5

Location Code: WMWMILAP
Collected: 4/25/23 10:27
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08192

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 11:42		1.015	0.249	mg/L	0.030000	0.1015	
* Calcium, Total	4/28/23 11:51	5/3/23 11:42		1.015	5.85	mg/L	0.070035	0.406	
* Iron, Total	4/28/23 11:51	5/3/23 11:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/28/23 11:51	5/3/23 11:42		1.015	0.158	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 11:42		1.015	2.00	mg/L	0.021315	0.406	
* Molybdenum, Total	4/28/23 11:51	5/3/23 11:42		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 11:42		1	9.46	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 11:42		1.015	4.42	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 13:48		10.15	282	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:07		1.015	0.250	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/28/23 08:55	5/3/23 12:07		1.015	5.65	mg/L	0.070035	0.406	
* Iron, Dissolved	4/28/23 08:55	5/3/23 12:07		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:07		1.015	0.123	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 12:07		1.015	2.08	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:07		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:07		1	9.22	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:07		1.015	4.31	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 13:41		10.15	298	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:16		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:16		1.015	0.0301	mg/L	0.009135	0.05075	J
* Arsenic, Total	4/28/23 11:51	4/28/23 17:16		1.015	0.000191	mg/L	0.000112	0.000203	J
* Barium, Total	4/28/23 11:51	4/28/23 17:16		1.015	0.217	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/28/23 11:51	4/28/23 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	4/28/23 17:16		1.015	0.00820	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - PZ-5

Location Code: WMWMILAP
Collected: 4/25/23 10:27
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08192

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 17:16		1.015	2.32	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 17:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	0.0262	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	0.000146	mg/L	0.000112	0.000203	J
* Barium, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	0.228	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	0.00801	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	2.35	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 22:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:16	4/28/23 16:16		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/8/23 12:40	5/9/23 14:17		1	589	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/27/23 13:15	5/1/23 10:20		1	712	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	576	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	13.0	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 13:50	5/3/23 13:50		1	2.27	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - PZ-5

Location Code: WMWMILAP
Collected: 4/25/23 10:27
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08192

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 13:11	5/1/23 13:11		1	17.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:41	5/2/23 10:41		1	2.23	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 10:24	4/28/23 10:24		1	6.92	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/25/23 10:24	4/25/23 10:24			1127.06	uS/cm			FA
pH	4/25/23 10:24	4/25/23 10:24			8.46	SU			FA
Temperature	4/25/23 10:24	4/25/23 10:24			16.97	C			FA
Turbidity	4/25/23 10:24	4/25/23 10:24			3.92	NTU			FA
Sulfide	4/25/23 10:24	4/25/23 10:24			9.0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 10:27
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: BD08192

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08197	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD08199	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0960	0.0967	0.0905	0.0850 to 0.115	96.0	70.0 to 130	0.727	20.0
BD08197	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0909	0.0894	0.0913	0.0850 to 0.115	90.9	70.0 to 130	1.66	20.0
BD08199	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.0998	0.0988	0.0965	0.0850 to 0.115	98.3	70.0 to 130	1.01	20.0
BD08197	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0995	0.0977	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.83	20.0
BD08199	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.129	0.127	0.103	0.0850 to 0.115	104	70.0 to 130	1.56	20.0
BD08197	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.105	0.103	0.105	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD08199	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0990	0.0969	0.0997	0.0850 to 0.115	99.0	70.0 to 130	2.14	20.0
BD08197	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0986	0.0958	0.0983	0.0850 to 0.115	98.6	70.0 to 130	2.88	20.0
BD08199	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.11	1.11	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08197	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	0.991	1.00	1.01	0.850 to 1.15	99.1	70.0 to 130	0.904	20.0
BD08199	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0996	0.0996	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.00	20.0
BD08197	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0994	0.0973	0.0991	0.0850 to 0.115	99.4	70.0 to 130	2.14	20.0
BD08199	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	31.4	31.5	5.25	4.25 to 5.75	98.0	70.0 to 130	0.318	20.0
BD08197	Calcium, Total	mg/L	0.00486	0.152	5.00	5.05	5.07	5.08	4.25 to 5.75	101	70.0 to 130	0.395	20.0
BD08197	Chloride	mg/L	0.0754	1.00	10.0	10.5	10.6	10.5	9.00 to 11.0	105	80.0 to 120	0.948	20.0
BD08199	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0978	0.0977	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.102	20.0
BD08197	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.100	0.100	0.0997	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD08199	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08192	Fluoride	mg/L	0.029	0.125	2.50	4.95	5.07	2.70	2.25 to 2.75	109	80.0 to 120	2.40	20.0
BD08199	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	0.418	0.417	0.205	0.170 to 0.230	97.5	70.0 to 130	0.240	20.0
BD08197	Iron, Total	mg/L	-0.00309	0.0176	0.2	0.201	0.198	0.201	0.170 to 0.230	100	70.0 to 130	1.50	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 10:27
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: BD08192

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD08199	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD08197	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD08199	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.454	0.448	0.198	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BD08197	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.191	0.192	0.193	0.170 to 0.230	95.5	70.0 to 130	0.522	20.0
BD08199	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	14.4	14.3	5.06	4.25 to 5.75	99.4	70.0 to 130	0.697	20.0
BD08197	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	4.84	4.86	4.88	4.25 to 5.75	96.8	70.0 to 130	0.412	20.0
BD08199	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.133	0.132	0.103	0.0850 to 0.115	100	70.0 to 130	0.755	20.0
BD08197	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00376	0.00394	0.00395	0.00340 to 0.00460	94.0	70.0 to 130	4.68	20.0
BD08199	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.274	0.274	0.202	0.170 to 0.230	97.8	70.0 to 130	0.00	20.0
BD08197	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD08199	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	25.6	25.9	10.3	8.50 to 11.5	98.0	70.0 to 130	1.17	20.0
BD08197	Potassium, Total	mg/L	0.0148	0.367	10.0	10.4	10.3	10.3	8.50 to 11.5	104	70.0 to 130	0.966	20.0
BD08199	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.0986	0.101	0.0999	0.0850 to 0.115	98.6	70.0 to 130	2.40	20.0
BD08197	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0962	0.0941	0.0946	0.0850 to 0.115	96.2	70.0 to 130	2.21	20.0
BD08199	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.12	7.20	1.03	0.850 to 1.15	97.0	70.0 to 130	1.12	20.0
BD08197	Silicon, Total	mg/L	-0.00123	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD08199	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	514	497	4.87	4.25 to 5.75	40.0	70.0 to 130	3.36	20.0
BD08197	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.72	4.76	4.69	4.25 to 5.75	93.2	70.0 to 130	0.844	20.0
BD08192	Sulfate	mg/L	-0.346	2.0	20.0	28.5	28.8	20.0	18.0 to 22.0	108	80.0 to 120	1.05	20.0
BD08199	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD08197	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08197	Total Organic Carbon	mg/L	0.0742	1.00	10.0	9.44	9.37	8.78		94.4	80.0 to 120	0.744	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/25/23 10:27

Customer ID:

Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: BD08192

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08202	Alkalinity	mg CaCO3/L					221.06	49.34	45.0 to 55.0			1.23	10.0
BD08197	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.19	0.089	2.17	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD08198	Solids, Dissolved	mg/L	1.00	25.0			830	51.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5

Location Code: WMWMILAP
Collected: 4/25/23 11:17
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08193

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 11:45		1.015	0.961	mg/L	0.030000	0.1015	
* Calcium, Total	4/28/23 11:51	5/3/23 13:51		10.15	229	mg/L	0.70035	4.06	
* Iron, Total	4/28/23 11:51	5/3/23 13:51		10.15	4.17	mg/L	0.08120	0.406	
* Lithium, Total	4/28/23 11:51	5/3/23 11:45		1.015	0.243	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 11:45		1.015	32.4	mg/L	0.021315	0.406	
* Molybdenum, Total	4/28/23 11:51	5/3/23 11:45		1.015	0.0934	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 11:45		1	8.41	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 11:45		1.015	3.93	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 13:51		10.15	90.2	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:10		1.015	0.974	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/28/23 08:55	5/3/23 13:44		10.15	235	mg/L	0.70035	4.06	
* Iron, Dissolved	4/28/23 08:55	5/3/23 13:44		10.15	4.36	mg/L	0.08120	0.406	
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:10		1.015	0.199	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 12:10		1.015	33.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:10		1.015	0.0949	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:10		1	8.15	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:10		1.015	3.81	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 13:44		10.15	93.9	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:20		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:20		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/28/23 11:51	4/28/23 17:20		1.015	0.00879	mg/L	0.000112	0.000203	
* Barium, Total	4/28/23 11:51	4/28/23 17:20		1.015	0.0182	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:20		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/28/23 11:51	4/28/23 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	5/1/23 11:16		5.075	1.82	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5

Location Code: WMWMILAP
Collected: 4/25/23 11:17
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08193

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 17:20		1.015	9.41	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 17:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	0.00899	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	0.0174	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	5/1/23 11:16		5.075	1.82	mg/L	0.000761	0.005075	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	9.57	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 22:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:18	4/28/23 16:18		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/8/23 12:40	5/9/23 14:17		1	85.1	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/27/23 13:15	5/1/23 10:20		1	1200	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	84.9	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 14:08	5/3/23 14:08		1	1.54	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5

Location Code: WMWMILAP
Collected: 4/25/23 11:17
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08193

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 13:24	5/1/23 13:24		2	22.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:53	5/2/23 10:53		1	0.424	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 11:13	4/28/23 11:13		40	744	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/25/23 11:14	4/25/23 11:14			1502.91	uS/cm			FA
pH	4/25/23 11:14	4/25/23 11:14			7.37	SU			FA
Temperature	4/25/23 11:14	4/25/23 11:14			17.30	C			FA
Turbidity	4/25/23 11:14	4/25/23 11:14			1.87	NTU			FA
Sulfide	4/25/23 11:14	4/25/23 11:14			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 11:17
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-5

Laboratory ID Number: BD08193

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08197	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD08199	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0960	0.0967	0.0905	0.0850 to 0.115	96.0	70.0 to 130	0.727	20.0
BD08197	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0909	0.0894	0.0913	0.0850 to 0.115	90.9	70.0 to 130	1.66	20.0
BD08199	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.0998	0.0988	0.0965	0.0850 to 0.115	98.3	70.0 to 130	1.01	20.0
BD08197	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0995	0.0977	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.83	20.0
BD08199	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.129	0.127	0.103	0.0850 to 0.115	104	70.0 to 130	1.56	20.0
BD08197	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.105	0.103	0.105	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD08199	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0990	0.0969	0.0997	0.0850 to 0.115	99.0	70.0 to 130	2.14	20.0
BD08197	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0986	0.0958	0.0983	0.0850 to 0.115	98.6	70.0 to 130	2.88	20.0
BD08199	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.11	1.11	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08197	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	0.991	1.00	1.01	0.850 to 1.15	99.1	70.0 to 130	0.904	20.0
BD08199	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0996	0.0996	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.00	20.0
BD08197	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0994	0.0973	0.0991	0.0850 to 0.115	99.4	70.0 to 130	2.14	20.0
BD08199	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	31.4	31.5	5.25	4.25 to 5.75	98.0	70.0 to 130	0.318	20.0
BD08197	Calcium, Total	mg/L	0.00486	0.152	5.00	5.05	5.07	5.08	4.25 to 5.75	101	70.0 to 130	0.395	20.0
BD08197	Chloride	mg/L	0.0754	1.00	10.0	10.5	10.6	10.5	9.00 to 11.0	105	80.0 to 120	0.948	20.0
BD08199	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0978	0.0977	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.102	20.0
BD08197	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.100	0.100	0.0997	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD08199	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08202	Fluoride	mg/L	0.0553	0.125	10.0	10.4	10.4	2.69	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BD08199	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	0.418	0.417	0.205	0.170 to 0.230	97.5	70.0 to 130	0.240	20.0
BD08197	Iron, Total	mg/L	-0.00309	0.0176	0.2	0.201	0.198	0.201	0.170 to 0.230	100	70.0 to 130	1.50	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 11:17
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-5

Laboratory ID Number: BD08193

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD08197	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD08199	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.454	0.448	0.198	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BD08197	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.191	0.192	0.193	0.170 to 0.230	95.5	70.0 to 130	0.522	20.0
BD08199	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	14.4	14.3	5.06	4.25 to 5.75	99.4	70.0 to 130	0.697	20.0
BD08197	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	4.84	4.86	4.88	4.25 to 5.75	96.8	70.0 to 130	0.412	20.0
BD08199	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.133	0.132	0.103	0.0850 to 0.115	100	70.0 to 130	0.755	20.0
BD08197	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00376	0.00394	0.00395	0.00340 to 0.00460	94.0	70.0 to 130	4.68	20.0
BD08199	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.274	0.274	0.202	0.170 to 0.230	97.8	70.0 to 130	0.00	20.0
BD08197	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD08199	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	25.6	25.9	10.3	8.50 to 11.5	98.0	70.0 to 130	1.17	20.0
BD08197	Potassium, Total	mg/L	0.0148	0.367	10.0	10.4	10.3	10.3	8.50 to 11.5	104	70.0 to 130	0.966	20.0
BD08199	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.0986	0.101	0.0999	0.0850 to 0.115	98.6	70.0 to 130	2.40	20.0
BD08197	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0962	0.0941	0.0946	0.0850 to 0.115	96.2	70.0 to 130	2.21	20.0
BD08199	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.12	7.20	1.03	0.850 to 1.15	97.0	70.0 to 130	1.12	20.0
BD08197	Silicon, Total	mg/L	-0.00123	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD08199	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	514	497	4.87	4.25 to 5.75	40.0	70.0 to 130	3.36	20.0
BD08197	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.72	4.76	4.69	4.25 to 5.75	93.2	70.0 to 130	0.844	20.0
BD08202	Sulfate	mg/L	0.0982	2.0	1000	1750	1750	19.7	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BD08199	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD08197	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08197	Total Organic Carbon	mg/L	0.0742	1.00	10.0	9.44	9.37	8.78		94.4	80.0 to 120	0.744	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/25/23 11:17

Customer ID:

Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-5

Laboratory ID Number: BD08193

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08202	Alkalinity	mg CaCO3/L					221.06	49.34	45.0 to 55.0			1.23	10.0
BD08197	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.19	0.089	2.17	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD08198	Solids, Dissolved	mg/L	1.00	25.0			830	51.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5 Dup

Location Code: WMWMILAP
Collected: 4/25/23 11:17
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08194

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 11:49		1.015	0.955	mg/L	0.030000	0.1015	
* Calcium, Total	4/28/23 11:51	5/3/23 13:54		10.15	224	mg/L	0.70035	4.06	
* Iron, Total	4/28/23 11:51	5/3/23 11:49		1.015	3.98	mg/L	0.008120	0.0406	
* Lithium, Total	4/28/23 11:51	5/3/23 11:49		1.015	0.241	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 11:49		1.015	31.9	mg/L	0.021315	0.406	
* Molybdenum, Total	4/28/23 11:51	5/3/23 11:49		1.015	0.0935	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 11:49		1	8.35	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 11:49		1.015	3.90	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 13:54		10.15	88.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:13		1.015	0.975	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/28/23 08:55	5/3/23 13:47		10.15	233	mg/L	0.70035	4.06	
* Iron, Dissolved	4/28/23 08:55	5/3/23 12:13		1.015	4.05	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:13		1.015	0.200	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 12:13		1.015	33.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:13		1.015	0.0951	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:13		1	8.13	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:13		1.015	3.80	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 13:47		10.15	94.5	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:23		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:23		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/28/23 11:51	4/28/23 17:23		1.015	0.00913	mg/L	0.000112	0.000203	
* Barium, Total	4/28/23 11:51	4/28/23 17:23		1.015	0.0187	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 17:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/28/23 11:51	4/28/23 17:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	5/1/23 11:20		5.075	1.87	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5 Dup

Location Code: WMWMILAP
Collected: 4/25/23 11:17
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08194

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 17:23		1.015	9.38	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 17:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	0.00892	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	0.0178	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	5/1/23 11:20		5.075	1.87	mg/L	0.000761	0.005075	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	9.47	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 22:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:19	4/28/23 16:19		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/8/23 12:40	5/9/23 14:17		1	80.6	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/1/23 13:20	5/2/23 13:55		1	1190	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	80.5	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 14:23	5/3/23 14:23		1	1.48	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5 Dup

Location Code: WMWMILAP
Collected: 4/25/23 11:17
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08194

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 13:25	5/1/23 13:25		2	22.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:54	5/2/23 10:54		1	0.422	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 11:14	4/28/23 11:14		40	732	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/25/23 11:14	4/25/23 11:14			1502.91	uS/cm			FA
pH	4/25/23 11:14	4/25/23 11:14			7.37	SU			FA
Temperature	4/25/23 11:14	4/25/23 11:14			17.30	C			FA
Turbidity	4/25/23 11:14	4/25/23 11:14			1.87	NTU			FA
Sulfide	4/25/23 11:14	4/25/23 11:14			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 11:17
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: BD08194

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD08199	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0	
BD08197	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0	
BD08199	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0960	0.0967	0.0905	0.0850 to 0.115	96.0	70.0 to 130	0.727	20.0	
BD08197	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0909	0.0894	0.0913	0.0850 to 0.115	90.9	70.0 to 130	1.66	20.0	
BD08199	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.0998	0.0988	0.0965	0.0850 to 0.115	98.3	70.0 to 130	1.01	20.0	
BD08197	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0995	0.0977	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.83	20.0	
BD08199	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.129	0.127	0.103	0.0850 to 0.115	104	70.0 to 130	1.56	20.0	
BD08197	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.105	0.103	0.105	0.0850 to 0.115	105	70.0 to 130	1.92	20.0	
BD08199	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0990	0.0969	0.0997	0.0850 to 0.115	99.0	70.0 to 130	2.14	20.0	
BD08197	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0986	0.0958	0.0983	0.0850 to 0.115	98.6	70.0 to 130	2.88	20.0	
BD08199	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.11	1.11	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0	
BD08197	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	0.991	1.00	1.01	0.850 to 1.15	99.1	70.0 to 130	0.904	20.0	
BD08199	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0996	0.0996	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.00	20.0	
BD08197	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0994	0.0973	0.0991	0.0850 to 0.115	99.4	70.0 to 130	2.14	20.0	
BD08199	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	31.4	31.5	5.25	4.25 to 5.75	98.0	70.0 to 130	0.318	20.0	
BD08197	Calcium, Total	mg/L	0.00486	0.152	5.00	5.05	5.07	5.08	4.25 to 5.75	101	70.0 to 130	0.395	20.0	
BD08197	Chloride	mg/L	0.0754	1.00	10.0	10.5	10.6	10.5	9.00 to 11.0	105	80.0 to 120	0.948	20.0	
BD08199	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0978	0.0977	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.102	20.0	
BD08197	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.100	0.100	0.0997	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD08199	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	
BD08197	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BD08202	Fluoride	mg/L	0.0553	0.125	10.0	10.4	10.4	2.69	2.25 to 2.75	103	80.0 to 120	0.00	20.0	
BD08199	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	0.418	0.417	0.205	0.170 to 0.230	97.5	70.0 to 130	0.240	20.0	
BD08197	Iron, Total	mg/L	-0.00309	0.0176	0.2	0.201	0.198	0.201	0.170 to 0.230	100	70.0 to 130	1.50	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 11:17
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: BD08194

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD08199	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD08197	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD08199	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.454	0.448	0.198	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BD08197	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.191	0.192	0.193	0.170 to 0.230	95.5	70.0 to 130	0.522	20.0
BD08199	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	14.4	14.3	5.06	4.25 to 5.75	99.4	70.0 to 130	0.697	20.0
BD08197	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	4.84	4.86	4.88	4.25 to 5.75	96.8	70.0 to 130	0.412	20.0
BD08199	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.133	0.132	0.103	0.0850 to 0.115	100	70.0 to 130	0.755	20.0
BD08197	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00376	0.00394	0.00395	0.00340 to 0.00460	94.0	70.0 to 130	4.68	20.0
BD08199	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.274	0.274	0.202	0.170 to 0.230	97.8	70.0 to 130	0.00	20.0
BD08197	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD08199	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	25.6	25.9	10.3	8.50 to 11.5	98.0	70.0 to 130	1.17	20.0
BD08197	Potassium, Total	mg/L	0.0148	0.367	10.0	10.4	10.3	10.3	8.50 to 11.5	104	70.0 to 130	0.966	20.0
BD08199	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.0986	0.101	0.0999	0.0850 to 0.115	98.6	70.0 to 130	2.40	20.0
BD08197	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0962	0.0941	0.0946	0.0850 to 0.115	96.2	70.0 to 130	2.21	20.0
BD08199	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.12	7.20	1.03	0.850 to 1.15	97.0	70.0 to 130	1.12	20.0
BD08197	Silicon, Total	mg/L	-0.00123	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD08199	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	514	497	4.87	4.25 to 5.75	40.0	70.0 to 130	3.36	20.0
BD08197	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.72	4.76	4.69	4.25 to 5.75	93.2	70.0 to 130	0.844	20.0
BD08202	Sulfate	mg/L	0.0982	2.0	1000	1750	1750	19.7	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BD08199	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD08197	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08197	Total Organic Carbon	mg/L	0.0742	1.00	10.0	9.44	9.37	8.78		94.4	80.0 to 120	0.744	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/25/23 11:17

Customer ID:

Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: BD08194

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08202	Alkalinity	mg CaCO3/L					221.06	49.34	45.0 to 55.0			1.23	10.0
BD08197	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.19	0.089	2.17	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD08200	Solids, Dissolved	mg/L	1.00	25.0			440	54.0	40.0 to 60.0			0.228	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6

Location Code: WMWMILAP
Collected: 4/25/23 13:48
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08195

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 11:52		1.015	0.865	mg/L	0.030000	0.1015	
* Calcium, Total	4/28/23 11:51	5/3/23 13:58		10.15	147	mg/L	0.70035	4.06	
* Iron, Total	4/28/23 11:51	5/3/23 13:58		10.15	25.7	mg/L	0.08120	0.406	
* Lithium, Total	4/28/23 11:51	5/3/23 11:52		1.015	0.0898	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 11:52		1.015	29.2	mg/L	0.021315	0.406	
* Molybdenum, Total	4/28/23 11:51	5/3/23 11:52		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 11:52		1	16.4	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 11:52		1.015	7.67	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 13:58		10.15	44.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:16		1.015	0.863	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/28/23 08:55	5/3/23 13:50		10.15	149	mg/L	0.70035	4.06	
* Iron, Dissolved	4/28/23 08:55	5/3/23 13:50		10.15	25.9	mg/L	0.08120	0.406	
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:16		1.015	0.0785	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 12:16		1.015	30.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:16		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:16		1	16.2	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:16		1.015	7.57	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 13:50		10.15	48.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:27		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:27		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/28/23 11:51	4/28/23 17:27		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	4/28/23 11:51	4/28/23 17:27		1.015	0.0235	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:27		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 17:27		1.015	0.00983	mg/L	0.000068	0.000203	
* Lead, Total	4/28/23 11:51	4/28/23 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	5/1/23 11:23		5.075	5.53	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6

Location Code: WMWMILAP
Collected: 4/25/23 13:48
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08195

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 17:27		1.015	5.87	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 17:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	0.0229	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	0.00987	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	5/1/23 11:23		5.075	5.53	mg/L	0.000761	0.005075	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	5.93	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 22:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:21	4/28/23 16:21		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/8/23 12:40	5/9/23 14:17		1	36.1	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/1/23 13:20	5/2/23 13:55		1	896	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	36.1	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 14:38	5/3/23 14:38		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6

Location Code: WMWMILAP
Collected: 4/25/23 13:48
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08195

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 13:26	5/1/23 13:26		3	32.7	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:55	5/2/23 10:55		1	0.0863	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 11:16	4/28/23 11:16		32	549	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/25/23 13:45	4/25/23 13:45			1098.21	uS/cm			FA
pH	4/25/23 13:45	4/25/23 13:45			6.06	SU			FA
Temperature	4/25/23 13:45	4/25/23 13:45			19.21	C			FA
Turbidity	4/25/23 13:45	4/25/23 13:45			9.42	NTU			FA
Sulfide	4/25/23 13:45	4/25/23 13:45			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 13:48
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-6

Laboratory ID Number: BD08195

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08197	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD08199	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0960	0.0967	0.0905	0.0850 to 0.115	96.0	70.0 to 130	0.727	20.0
BD08197	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0909	0.0894	0.0913	0.0850 to 0.115	90.9	70.0 to 130	1.66	20.0
BD08199	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.0998	0.0988	0.0965	0.0850 to 0.115	98.3	70.0 to 130	1.01	20.0
BD08197	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0995	0.0977	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.83	20.0
BD08199	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.129	0.127	0.103	0.0850 to 0.115	104	70.0 to 130	1.56	20.0
BD08197	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.105	0.103	0.105	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD08199	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0990	0.0969	0.0997	0.0850 to 0.115	99.0	70.0 to 130	2.14	20.0
BD08197	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0986	0.0958	0.0983	0.0850 to 0.115	98.6	70.0 to 130	2.88	20.0
BD08199	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.11	1.11	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08197	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	0.991	1.00	1.01	0.850 to 1.15	99.1	70.0 to 130	0.904	20.0
BD08199	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0996	0.0996	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.00	20.0
BD08197	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0994	0.0973	0.0991	0.0850 to 0.115	99.4	70.0 to 130	2.14	20.0
BD08199	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	31.4	31.5	5.25	4.25 to 5.75	98.0	70.0 to 130	0.318	20.0
BD08197	Calcium, Total	mg/L	0.00486	0.152	5.00	5.05	5.07	5.08	4.25 to 5.75	101	70.0 to 130	0.395	20.0
BD08197	Chloride	mg/L	0.0754	1.00	10.0	10.5	10.6	10.5	9.00 to 11.0	105	80.0 to 120	0.948	20.0
BD08199	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0978	0.0977	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.102	20.0
BD08197	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.100	0.100	0.0997	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD08199	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08202	Fluoride	mg/L	0.0553	0.125	10.0	10.4	10.4	2.69	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BD08199	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	0.418	0.417	0.205	0.170 to 0.230	97.5	70.0 to 130	0.240	20.0
BD08197	Iron, Total	mg/L	-0.00309	0.0176	0.2	0.201	0.198	0.201	0.170 to 0.230	100	70.0 to 130	1.50	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 13:48
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-6

Laboratory ID Number: BD08195

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD08197	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD08199	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.454	0.448	0.198	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BD08197	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.191	0.192	0.193	0.170 to 0.230	95.5	70.0 to 130	0.522	20.0
BD08199	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	14.4	14.3	5.06	4.25 to 5.75	99.4	70.0 to 130	0.697	20.0
BD08197	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	4.84	4.86	4.88	4.25 to 5.75	96.8	70.0 to 130	0.412	20.0
BD08199	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.133	0.132	0.103	0.0850 to 0.115	100	70.0 to 130	0.755	20.0
BD08197	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00376	0.00394	0.00395	0.00340 to 0.00460	94.0	70.0 to 130	4.68	20.0
BD08199	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.274	0.274	0.202	0.170 to 0.230	97.8	70.0 to 130	0.00	20.0
BD08197	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD08199	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	25.6	25.9	10.3	8.50 to 11.5	98.0	70.0 to 130	1.17	20.0
BD08197	Potassium, Total	mg/L	0.0148	0.367	10.0	10.4	10.3	10.3	8.50 to 11.5	104	70.0 to 130	0.966	20.0
BD08199	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.0986	0.101	0.0999	0.0850 to 0.115	98.6	70.0 to 130	2.40	20.0
BD08197	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0962	0.0941	0.0946	0.0850 to 0.115	96.2	70.0 to 130	2.21	20.0
BD08199	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.12	7.20	1.03	0.850 to 1.15	97.0	70.0 to 130	1.12	20.0
BD08197	Silicon, Total	mg/L	-0.00123	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD08199	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	514	497	4.87	4.25 to 5.75	40.0	70.0 to 130	3.36	20.0
BD08197	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.72	4.76	4.69	4.25 to 5.75	93.2	70.0 to 130	0.844	20.0
BD08202	Sulfate	mg/L	0.0982	2.0	1000	1750	1750	19.7	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BD08199	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD08197	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08197	Total Organic Carbon	mg/L	0.0742	1.00	10.0	9.44	9.37	8.78		94.4	80.0 to 120	0.744	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 13:48
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-6

Laboratory ID Number: BD08195

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08202	Alkalinity	mg CaCO3/L					221.06	49.34	45.0 to 55.0			1.23	10.0
BD08197	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.19	0.089	2.17	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD08200	Solids, Dissolved	mg/L	1.00	25.0			440	54.0	40.0 to 60.0			0.228	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-33H

Location Code: WMWMILAP
Collected: 4/25/23 14:57
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08196

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 11:55		1.015	0.851	mg/L	0.030000	0.1015	
* Calcium, Total	4/28/23 11:51	5/3/23 14:01		10.15	220	mg/L	0.70035	4.06	
* Iron, Total	4/28/23 11:51	5/3/23 11:55		1.015	1.61	mg/L	0.008120	0.0406	
* Lithium, Total	4/28/23 11:51	5/3/23 11:55		1.015	0.174	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 11:55		1.015	32.8	mg/L	0.021315	0.406	
* Molybdenum, Total	4/28/23 11:51	5/3/23 11:55		1.015	0.0256	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 11:55		1	9.31	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 11:55		1.015	4.35	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 14:01		10.15	51.6	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:19		1.015	0.848	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/28/23 08:55	5/3/23 13:53		10.15	221	mg/L	0.70035	4.06	
* Iron, Dissolved	4/28/23 08:55	5/3/23 12:19		1.015	1.32	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:19		1.015	0.142	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 12:19		1.015	33.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:19		1.015	0.0268	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:19		1	9.01	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:19		1.015	4.21	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 13:53		10.15	54.8	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:30		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:30		1.015	0.0184	mg/L	0.009135	0.05075	J
* Arsenic, Total	4/28/23 11:51	4/28/23 17:30		1.015	0.00425	mg/L	0.000112	0.000203	
* Barium, Total	4/28/23 11:51	4/28/23 17:30		1.015	0.0311	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:30		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 17:30		1.015	0.00778	mg/L	0.000068	0.000203	
* Lead, Total	4/28/23 11:51	4/28/23 17:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	5/1/23 11:27		5.075	3.35	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-33H

Location Code: WMWMILAP
Collected: 4/25/23 14:57
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08196

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 17:30		1.015	10.6	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 17:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	0.00280	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	0.0304	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	0.00809	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	5/1/23 11:27		5.075	3.35	mg/L	0.000761	0.005075	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	10.9	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 22:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:23	4/28/23 16:23		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/8/23 12:40	5/9/23 14:17		1	68.9	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/1/23 13:20	5/2/23 13:55		1	1090	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	68.8	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 14:53	5/3/23 14:53		1	1.47	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-33H

Location Code: WMWMILAP
Collected: 4/25/23 14:57
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08196

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 13:28	5/1/23 13:28		2	21.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:57	5/2/23 10:57		1	0.221	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 11:17	4/28/23 11:17		40	732	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/25/23 14:54	4/25/23 14:54			1360.53	uS/cm			FA
pH	4/25/23 14:54	4/25/23 14:54			6.56	SU			FA
Temperature	4/25/23 14:54	4/25/23 14:54			18.07	C			FA
Turbidity	4/25/23 14:54	4/25/23 14:54			6.59	NTU			FA
Sulfide	4/25/23 14:54	4/25/23 14:54			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 14:57
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-33H

Laboratory ID Number: BD08196

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08197	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD08199	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0960	0.0967	0.0905	0.0850 to 0.115	96.0	70.0 to 130	0.727	20.0
BD08197	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0909	0.0894	0.0913	0.0850 to 0.115	90.9	70.0 to 130	1.66	20.0
BD08199	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.0998	0.0988	0.0965	0.0850 to 0.115	98.3	70.0 to 130	1.01	20.0
BD08197	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0995	0.0977	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.83	20.0
BD08199	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.129	0.127	0.103	0.0850 to 0.115	104	70.0 to 130	1.56	20.0
BD08197	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.105	0.103	0.105	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD08199	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0990	0.0969	0.0997	0.0850 to 0.115	99.0	70.0 to 130	2.14	20.0
BD08197	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0986	0.0958	0.0983	0.0850 to 0.115	98.6	70.0 to 130	2.88	20.0
BD08199	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.11	1.11	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08197	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	0.991	1.00	1.01	0.850 to 1.15	99.1	70.0 to 130	0.904	20.0
BD08199	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0996	0.0996	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.00	20.0
BD08197	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0994	0.0973	0.0991	0.0850 to 0.115	99.4	70.0 to 130	2.14	20.0
BD08199	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	31.4	31.5	5.25	4.25 to 5.75	98.0	70.0 to 130	0.318	20.0
BD08197	Calcium, Total	mg/L	0.00486	0.152	5.00	5.05	5.07	5.08	4.25 to 5.75	101	70.0 to 130	0.395	20.0
BD08197	Chloride	mg/L	0.0754	1.00	10.0	10.5	10.6	10.5	9.00 to 11.0	105	80.0 to 120	0.948	20.0
BD08199	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0978	0.0977	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.102	20.0
BD08197	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.100	0.100	0.0997	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD08199	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08202	Fluoride	mg/L	0.0553	0.125	10.0	10.4	10.4	2.69	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BD08199	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	0.418	0.417	0.205	0.170 to 0.230	97.5	70.0 to 130	0.240	20.0
BD08197	Iron, Total	mg/L	-0.00309	0.0176	0.2	0.201	0.198	0.201	0.170 to 0.230	100	70.0 to 130	1.50	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 14:57
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-33H

Laboratory ID Number: BD08196

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD08197	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD08199	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.454	0.448	0.198	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BD08197	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.191	0.192	0.193	0.170 to 0.230	95.5	70.0 to 130	0.522	20.0
BD08199	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	14.4	14.3	5.06	4.25 to 5.75	99.4	70.0 to 130	0.697	20.0
BD08197	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	4.84	4.86	4.88	4.25 to 5.75	96.8	70.0 to 130	0.412	20.0
BD08199	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.133	0.132	0.103	0.0850 to 0.115	100	70.0 to 130	0.755	20.0
BD08197	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00376	0.00394	0.00395	0.00340 to 0.00460	94.0	70.0 to 130	4.68	20.0
BD08199	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.274	0.274	0.202	0.170 to 0.230	97.8	70.0 to 130	0.00	20.0
BD08197	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD08199	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	25.6	25.9	10.3	8.50 to 11.5	98.0	70.0 to 130	1.17	20.0
BD08197	Potassium, Total	mg/L	0.0148	0.367	10.0	10.4	10.3	10.3	8.50 to 11.5	104	70.0 to 130	0.966	20.0
BD08199	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.0986	0.101	0.0999	0.0850 to 0.115	98.6	70.0 to 130	2.40	20.0
BD08197	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0962	0.0941	0.0946	0.0850 to 0.115	96.2	70.0 to 130	2.21	20.0
BD08199	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.12	7.20	1.03	0.850 to 1.15	97.0	70.0 to 130	1.12	20.0
BD08197	Silicon, Total	mg/L	-0.00123	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD08199	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	514	497	4.87	4.25 to 5.75	40.0	70.0 to 130	3.36	20.0
BD08197	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.72	4.76	4.69	4.25 to 5.75	93.2	70.0 to 130	0.844	20.0
BD08202	Sulfate	mg/L	0.0982	2.0	1000	1750	1750	19.7	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BD08199	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD08197	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08197	Total Organic Carbon	mg/L	0.0742	1.00	10.0	9.44	9.37	8.78		94.4	80.0 to 120	0.744	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/25/23 14:57

Customer ID:

Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-33H

Laboratory ID Number: BD08196

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08202	Alkalinity	mg CaCO3/L					221.06	49.34	45.0 to 55.0			1.23	10.0
BD08197	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.19	0.089	2.17	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD08200	Solids, Dissolved	mg/L	1.00	25.0			440	54.0	40.0 to 60.0			0.228	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-3

Location Code: WMWMILAPFB
Collected: 4/25/23 15:40
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08197

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	4/28/23 11:51	5/3/23 11:59		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/28/23 11:51	5/3/23 11:59		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	4/28/23 11:51	5/3/23 11:59		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	4/28/23 11:51	5/3/23 11:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/28/23 11:51	5/3/23 11:59		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	4/28/23 11:51	5/3/23 11:59		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 11:59		1	Not Detected	mg/L				
* Silicon, Total	4/28/23 11:51	5/3/23 11:59		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	4/28/23 11:51	5/3/23 11:59		1.015	0.0618	mg/L	0.04060	0.406	J	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	4/28/23 11:51	4/28/23 17:34		1.015	0.000389	mg/L	0.000152	0.001015	J	
* Potassium, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	4/28/23 11:51	4/28/23 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 22:46		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: SC								
* Nitrogen, Nitrate/Nitrite	4/28/23 16:25	4/28/23 16:25		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	5/1/23 13:20	5/2/23 13:55		1	Not Detected	mg/L		25	U	

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-3

Location Code: WMWMILAPFB
Collected: 4/25/23 15:40
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08197

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 15:07	5/3/23 15:07		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 13:17	5/1/23 13:17		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:58	5/2/23 10:58		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 11:18	4/28/23 11:18		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 4/25/23 15:40
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond Field Blank-3

Laboratory ID Number: BD08197

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08197	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD08197	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0909	0.0894	0.0913	0.0850 to 0.115	90.9	70.0 to 130	1.66	20.0
BD08197	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0995	0.0977	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.83	20.0
BD08197	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.105	0.103	0.105	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD08197	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0986	0.0958	0.0983	0.0850 to 0.115	98.6	70.0 to 130	2.88	20.0
BD08197	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	0.991	1.00	1.01	0.850 to 1.15	99.1	70.0 to 130	0.904	20.0
BD08197	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0994	0.0973	0.0991	0.0850 to 0.115	99.4	70.0 to 130	2.14	20.0
BD08197	Calcium, Total	mg/L	0.00486	0.152	5.00	5.05	5.07	5.08	4.25 to 5.75	101	70.0 to 130	0.395	20.0
BD08197	Chloride	mg/L	0.0754	1.00	10.0	10.5	10.6	10.5	9.00 to 11.0	105	80.0 to 120	0.948	20.0
BD08197	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.100	0.100	0.0997	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD08197	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08202	Fluoride	mg/L	0.0553	0.125	10.0	10.4	10.4	2.69	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BD08197	Iron, Total	mg/L	-0.00309	0.0176	0.2	0.201	0.198	0.201	0.170 to 0.230	100	70.0 to 130	1.50	20.0
BD08197	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD08197	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.191	0.192	0.193	0.170 to 0.230	95.5	70.0 to 130	0.522	20.0
BD08197	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	4.84	4.86	4.88	4.25 to 5.75	96.8	70.0 to 130	0.412	20.0
BD08197	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08197	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00376	0.00394	0.00395	0.00340 to 0.00460	94.0	70.0 to 130	4.68	20.0
BD08197	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD08197	Potassium, Total	mg/L	0.0148	0.367	10.0	10.4	10.3	10.3	8.50 to 11.5	104	70.0 to 130	0.966	20.0
BD08197	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0962	0.0941	0.0946	0.0850 to 0.115	96.2	70.0 to 130	2.21	20.0
BD08197	Silicon, Total	mg/L	-0.00123	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD08197	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.72	4.76	4.69	4.25 to 5.75	93.2	70.0 to 130	0.844	20.0
BD08202	Sulfate	mg/L	0.0982	2.0	1000	1750	1750	19.7	18.0 to 22.0	104	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 4/25/23 15:40
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond Field Blank-3

Laboratory ID Number: BD08197

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD08197	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08197	Total Organic Carbon	mg/L	0.0742	1.00	10.0	9.44	9.37	8.78		94.4	80.0 to 120	0.744	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 4/25/23 15:40

Customer ID:

Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond Field Blank-3

Laboratory ID Number: BD08197

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08197	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.19	0.089	2.17	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD08200	Solids, Dissolved	mg/L	1.00	25.0			440	54.0	40.0 to 60.0			0.228	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-31H

Location Code: WMWMLAP
Collected: 4/24/23 14:30
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08198

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 12:16		1.015	0.0323	mg/L	0.030000	0.1015	J
* Calcium, Total	4/28/23 11:51	5/3/23 14:05		10.15	125	mg/L	0.70035	4.06	
* Iron, Total	4/28/23 11:51	5/3/23 12:16		1.015	1.92	mg/L	0.008120	0.0406	
* Lithium, Total	4/28/23 11:51	5/3/23 12:16		1.015	0.137	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 14:05		10.15	46.2	mg/L	0.21315	4.06	
* Molybdenum, Total	4/28/23 11:51	5/3/23 12:16		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 12:16		1	20.6	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 12:16		1.015	9.61	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 14:05		10.15	73.5	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:22		1.015	0.0310	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/28/23 08:55	5/3/23 13:57		10.15	128	mg/L	0.70035	4.06	
* Iron, Dissolved	4/28/23 08:55	5/3/23 12:22		1.015	0.540	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:22		1.015	0.116	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 13:57		10.15	49.9	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:22		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:22		1	19.9	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:22		1.015	9.30	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 13:57		10.15	78.9	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:55		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:55		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/28/23 11:51	4/28/23 17:55		1.015	0.000636	mg/L	0.000112	0.000203	
* Barium, Total	4/28/23 11:51	4/28/23 17:55		1.015	0.0350	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/28/23 11:51	4/28/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	4/28/23 17:55		1.015	0.0332	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-31H

Location Code: WMWMILAP
Collected: 4/24/23 14:30
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08198

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 17:55		1.015	3.86	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 17:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	0.000245	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	0.0327	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	0.0339	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	3.84	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 23:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:31	4/28/23 16:31		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/4/23 14:06	5/4/23 14:40		1	249	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/27/23 13:15	5/1/23 10:20		1	830	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/4/23 14:06	5/4/23 14:40		1	248	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/4/23 14:06	5/4/23 14:40		1	0.587	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 16:21	5/3/23 16:21		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-31H

Location Code: WMWMILAP
Collected: 4/24/23 14:30
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08198

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 14:35	5/1/23 14:35		1	13.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 10:59	5/2/23 10:59		1	0.133	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 11:19	4/28/23 11:19		20	396	mg/L	12.0	40	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/24/23 14:28	4/24/23 14:28			1104.30	uS/cm			FA
pH	4/24/23 14:28	4/24/23 14:28			6.98	SU			FA
Temperature	4/24/23 14:28	4/24/23 14:28			18.02	C			FA
Turbidity	4/24/23 14:28	4/24/23 14:28			9.49	NTU			FA
Sulfide	4/24/23 14:28	4/24/23 14:28			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 14:30
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-31H

Laboratory ID Number: BD08198

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08202	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08199	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0960	0.0967	0.0905	0.0850 to 0.115	96.0	70.0 to 130	0.727	20.0
BD08202	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0995	0.0974	0.0913	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BD08199	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.0998	0.0988	0.0965	0.0850 to 0.115	98.3	70.0 to 130	1.01	20.0
BD08202	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0999	0.0987	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.21	20.0
BD08199	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.129	0.127	0.103	0.0850 to 0.115	104	70.0 to 130	1.56	20.0
BD08202	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.126	0.124	0.105	0.0850 to 0.115	106	70.0 to 130	1.60	20.0
BD08199	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0990	0.0969	0.0997	0.0850 to 0.115	99.0	70.0 to 130	2.14	20.0
BD08202	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0968	0.0970	0.0983	0.0850 to 0.115	96.8	70.0 to 130	0.206	20.0
BD08199	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.11	1.11	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08202	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	1.04	1.04	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD08199	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0996	0.0996	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.00	20.0
BD08202	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0961	0.0966	0.0991	0.0850 to 0.115	96.1	70.0 to 130	0.519	20.0
BD08199	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	31.4	31.5	5.25	4.25 to 5.75	98.0	70.0 to 130	0.318	20.0
BD08202	Calcium, Total	mg/L	0.00486	0.152	5.00	216	211	5.08	4.25 to 5.75	200	70.0 to 130	2.34	20.0
BD08202	Chloride	mg/L	0.0415	1.00	50.0	107	107	10.3	9.00 to 11.0	97.2	80.0 to 120	0.00	20.0
BD08199	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0978	0.0977	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.102	20.0
BD08202	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.0986	0.0974	0.0997	0.0850 to 0.115	98.6	70.0 to 130	1.22	20.0
BD08199	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08202	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.0998	0.0999	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.100	20.0
BD08202	Fluoride	mg/L	0.0553	0.125	10.0	10.4	10.4	2.69	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BD08199	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	0.418	0.417	0.205	0.170 to 0.230	97.5	70.0 to 130	0.240	20.0
BD08202	Iron, Total	mg/L	-0.00309	0.0176	0.2	2.01	2.01	0.201	0.170 to 0.230	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 14:30
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-31H

Laboratory ID Number: BD08198

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD08202	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD08199	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.454	0.448	0.198	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BD08202	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.354	0.355	0.193	0.170 to 0.230	124	70.0 to 130	0.282	20.0
BD08199	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	14.4	14.3	5.06	4.25 to 5.75	99.4	70.0 to 130	0.697	20.0
BD08202	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	91.5	89.5	4.88	4.25 to 5.75	140	70.0 to 130	2.21	20.0
BD08199	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.133	0.132	0.103	0.0850 to 0.115	100	70.0 to 130	0.755	20.0
BD08202	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.199	0.198	0.102	0.0850 to 0.115	99.1	70.0 to 130	0.504	20.0
BD08202	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00394	0.00379	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	3.88	20.0
BD08199	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.274	0.274	0.202	0.170 to 0.230	97.8	70.0 to 130	0.00	20.0
BD08202	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.200	0.200	0.202	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD08199	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	25.6	25.9	10.3	8.50 to 11.5	98.0	70.0 to 130	1.17	20.0
BD08202	Potassium, Total	mg/L	0.0148	0.367	10.0	19.9	19.9	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD08199	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.0986	0.101	0.0999	0.0850 to 0.115	98.6	70.0 to 130	2.40	20.0
BD08202	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0947	0.0964	0.0946	0.0850 to 0.115	94.7	70.0 to 130	1.78	20.0
BD08199	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.12	7.20	1.03	0.850 to 1.15	97.0	70.0 to 130	1.12	20.0
BD08202	Silicon, Total	mg/L	-0.00123	0.0440	1.00	10.8	10.8	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD08199	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	514	497	4.87	4.25 to 5.75	40.0	70.0 to 130	3.36	20.0
BD08202	Sodium, Total	mg/L	-0.00101	0.0880	5.00	93.0	91.0	4.69	4.25 to 5.75	146	70.0 to 130	2.17	20.0
BD08202	Sulfate	mg/L	0.0982	2.0	1000	1750	1750	19.7	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BD08199	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD08202	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08202	Total Organic Carbon	mg/L	0.133	1.00	10.0	10.9	10.7	9.10		93.8	80.0 to 120	1.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/24/23 14:30
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-31H

Laboratory ID Number: BD08198

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD08198	Alkalinity	mg CaCO3/L					245	51.2	45.0 to 55.0			1.62	10.0
BD08202	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	3.12	0.968	2.17	1.80 to 2.20	106	90.0 to 110	3.25	15.0
BD08198	Solids, Dissolved	mg/L	1.00	25.0			830	51.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-36HR

Location Code: WMWMILAP
Collected: 4/25/23 12:48
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08199

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 12:19		1.015	0.0994	mg/L	0.030000	0.1015	J
* Calcium, Total	4/28/23 11:51	5/3/23 12:19		1.015	34.7	mg/L	0.070035	0.406	
* Iron, Total	4/28/23 11:51	5/3/23 12:19		1.015	0.273	mg/L	0.008120	0.0406	
* Lithium, Total	4/28/23 11:51	5/3/23 12:19		1.015	0.373	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 12:19		1.015	11.7	mg/L	0.021315	0.406	
* Molybdenum, Total	4/28/23 11:51	5/3/23 12:19		1.015	0.0996	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 12:19		1	13.5	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 12:19		1.015	6.30	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 15:17		101.5	557	mg/L	4.060	40.6	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:26		1.015	0.0855	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/28/23 08:55	5/3/23 12:26		1.015	26.5	mg/L	0.070035	0.406	
* Iron, Dissolved	4/28/23 08:55	5/3/23 12:26		1.015	0.223	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:26		1.015	0.248	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 12:26		1.015	9.43	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:26		1.015	0.0785	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:26		1	13.2	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:26		1.015	6.15	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 15:24		101.5	512	mg/L	4.060	40.6	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 17:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 17:59		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/28/23 11:51	4/28/23 17:59		1.015	0.00204	mg/L	0.000112	0.000203	
* Barium, Total	4/28/23 11:51	4/28/23 17:59		1.015	0.0293	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 17:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 17:59		1.015	0.000752	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/28/23 11:51	4/28/23 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/28/23 11:51	4/28/23 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	4/28/23 17:59		1.015	0.0400	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-36HR

Location Code: WMWMILAP
Collected: 4/25/23 12:48
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08199

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 17:59		1.015	21.1	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 17:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	0.00153	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	0.0245	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	0.000246	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	0.0325	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	15.8	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 23:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:35	4/28/23 16:35		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/8/23 12:40	5/9/23 14:17		1	229	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/1/23 13:20	5/2/23 13:55		1	1760	mg/L		208.3	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	228	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	0.914	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 16:36	5/3/23 16:36		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-36HR

Location Code: WMWMILAP
Collected: 4/25/23 12:48
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08199

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 14:36	5/1/23 14:36		40	405	mg/L	20.00	40	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 11:00	5/2/23 11:00		1	0.295	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 11:20	4/28/23 11:20		32	519	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/25/23 12:44	4/25/23 12:44			3215.84	uS/cm			FA
pH	4/25/23 12:44	4/25/23 12:44			7.22	SU			FA
Temperature	4/25/23 12:44	4/25/23 12:44			17.88	C			FA
Turbidity	4/25/23 12:44	4/25/23 12:44			1.47	NTU			FA
Sulfide	4/25/23 12:44	4/25/23 12:44			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 12:48
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-36HR

Laboratory ID Number: BD08199

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD08199	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08202	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08199	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0960	0.0967	0.0905	0.0850 to 0.115	96.0	70.0 to 130	0.727	20.0
BD08202	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0995	0.0974	0.0913	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BD08199	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.0998	0.0988	0.0965	0.0850 to 0.115	98.3	70.0 to 130	1.01	20.0
BD08202	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0999	0.0987	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.21	20.0
BD08199	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.129	0.127	0.103	0.0850 to 0.115	104	70.0 to 130	1.56	20.0
BD08202	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.126	0.124	0.105	0.0850 to 0.115	106	70.0 to 130	1.60	20.0
BD08199	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0990	0.0969	0.0997	0.0850 to 0.115	99.0	70.0 to 130	2.14	20.0
BD08202	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0968	0.0970	0.0983	0.0850 to 0.115	96.8	70.0 to 130	0.206	20.0
BD08199	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.11	1.11	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08202	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	1.04	1.04	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD08199	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0996	0.0996	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.00	20.0
BD08202	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0961	0.0966	0.0991	0.0850 to 0.115	96.1	70.0 to 130	0.519	20.0
BD08199	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	31.4	31.5	5.25	4.25 to 5.75	98.0	70.0 to 130	0.318	20.0
BD08202	Calcium, Total	mg/L	0.00486	0.152	5.00	216	211	5.08	4.25 to 5.75	200	70.0 to 130	2.34	20.0
BD08202	Chloride	mg/L	0.0415	1.00	50.0	107	107	10.3	9.00 to 11.0	97.2	80.0 to 120	0.00	20.0
BD08199	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0978	0.0977	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.102	20.0
BD08202	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.0986	0.0974	0.0997	0.0850 to 0.115	98.6	70.0 to 130	1.22	20.0
BD08199	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD08202	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.0998	0.0999	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.100	20.0
BD08202	Fluoride	mg/L	0.0553	0.125	10.0	10.4	10.4	2.69	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BD08199	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	0.418	0.417	0.205	0.170 to 0.230	97.5	70.0 to 130	0.240	20.0
BD08202	Iron, Total	mg/L	-0.00309	0.0176	0.2	2.01	2.01	0.201	0.170 to 0.230	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 12:48
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-36HR

Laboratory ID Number: BD08199

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08199	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD08202	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD08199	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.454	0.448	0.198	0.170 to 0.230	103	70.0 to 130	1.33	20.0
BD08202	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.354	0.355	0.193	0.170 to 0.230	124	70.0 to 130	0.282	20.0
BD08199	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	14.4	14.3	5.06	4.25 to 5.75	99.4	70.0 to 130	0.697	20.0
BD08202	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	91.5	89.5	4.88	4.25 to 5.75	140	70.0 to 130	2.21	20.0
BD08199	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.133	0.132	0.103	0.0850 to 0.115	100	70.0 to 130	0.755	20.0
BD08202	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.199	0.198	0.102	0.0850 to 0.115	99.1	70.0 to 130	0.504	20.0
BD08202	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00394	0.00379	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	3.88	20.0
BD08199	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.274	0.274	0.202	0.170 to 0.230	97.8	70.0 to 130	0.00	20.0
BD08202	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.200	0.200	0.202	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD08199	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	25.6	25.9	10.3	8.50 to 11.5	98.0	70.0 to 130	1.17	20.0
BD08202	Potassium, Total	mg/L	0.0148	0.367	10.0	19.9	19.9	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD08199	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.0986	0.101	0.0999	0.0850 to 0.115	98.6	70.0 to 130	2.40	20.0
BD08202	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0947	0.0964	0.0946	0.0850 to 0.115	94.7	70.0 to 130	1.78	20.0
BD08199	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.12	7.20	1.03	0.850 to 1.15	97.0	70.0 to 130	1.12	20.0
BD08202	Silicon, Total	mg/L	-0.00123	0.0440	1.00	10.8	10.8	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD08199	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	514	497	4.87	4.25 to 5.75	40.0	70.0 to 130	3.36	20.0
BD08202	Sodium, Total	mg/L	-0.00101	0.0880	5.00	93.0	91.0	4.69	4.25 to 5.75	146	70.0 to 130	2.17	20.0
BD08202	Sulfate	mg/L	0.0982	2.0	1000	1750	1750	19.7	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BD08199	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD08202	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08202	Total Organic Carbon	mg/L	0.133	1.00	10.0	10.9	10.7	9.10		93.8	80.0 to 120	1.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 4/25/23 12:48

Customer ID:

Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-36HR

Laboratory ID Number: BD08199

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08202	Alkalinity	mg CaCO3/L					221.06	49.34	45.0 to 55.0			1.23	10.0
BD08202	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	3.12	0.968	2.17	1.80 to 2.20	106	90.0 to 110	3.25	15.0
BD08200	Solids, Dissolved	mg/L	1.00	25.0			440	54.0	40.0 to 60.0			0.228	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-27HR

Location Code: WMWMILAP
Collected: 4/25/23 14:42
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08200

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 12:22		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/28/23 11:51	5/3/23 14:18		10.15	54.6	mg/L	0.70035	4.06	
* Iron, Total	4/28/23 11:51	5/3/23 12:22		1.015	0.604	mg/L	0.008120	0.0406	
* Lithium, Total	4/28/23 11:51	5/3/23 12:22		1.015	0.0489	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/28/23 11:51	5/3/23 12:22		1.015	17.5	mg/L	0.021315	0.406	
* Molybdenum, Total	4/28/23 11:51	5/3/23 12:22		1.015	0.00646	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 12:22		1	29.5	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 12:22		1.015	13.8	mg/L	0.02030	0.25375	
* Sodium, Total	4/28/23 11:51	5/3/23 14:18		10.15	62.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:41		1.015	0.0317	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/28/23 08:55	5/3/23 14:15		10.15	58.1	mg/L	0.70035	4.06	
* Iron, Dissolved	4/28/23 08:55	5/3/23 12:41		1.015	0.224	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:41		1.015	0.0466	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 12:41		1.015	19.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:41		1.015	0.0118	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:41		1	28.5	mg/L			
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:41		1.015	13.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/28/23 08:55	5/3/23 14:15		10.15	77.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 18:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 18:02		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/28/23 11:51	4/28/23 18:02		1.015	0.000307	mg/L	0.000112	0.000203	
* Barium, Total	4/28/23 11:51	4/28/23 18:02		1.015	0.0950	mg/L	0.000508	0.001015	
* Beryllium, Total	4/28/23 11:51	4/28/23 18:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 18:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/28/23 11:51	4/28/23 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	4/28/23 18:02		1.015	0.0338	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-27HR

Location Code: WMWMILAP
Collected: 4/25/23 14:42
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08200

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 18:02		1.015	7.44	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 18:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	0.000177	mg/L	0.000112	0.000203	J
* Barium, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	0.104	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	0.0386	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	9.94	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 23:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:36	4/28/23 16:36		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/8/23 12:40	5/9/23 14:17		1	175	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/1/23 13:20	5/2/23 13:55		1	439	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	174	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	0.582	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 16:52	5/3/23 16:52		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-27HR

Location Code: WMWMILAP
Collected: 4/25/23 14:42
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08200

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 14:37	5/1/23 14:37		5	59.4	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 11:01	5/2/23 11:01		1	0.147	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 11:22	4/28/23 11:22		5	114	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/25/23 14:38	4/25/23 14:38			589.79	uS/cm			FA
pH	4/25/23 14:38	4/25/23 14:38			7.13	SU			FA
Temperature	4/25/23 14:38	4/25/23 14:38			18.14	C			FA
Turbidity	4/25/23 14:38	4/25/23 14:38			1.24	NTU			FA
Sulfide	4/25/23 14:38	4/25/23 14:38			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 14:42
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-27HR

Laboratory ID Number: BD08200

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08202	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08202	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08202	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0952	0.0949	0.0905	0.0850 to 0.115	95.2	70.0 to 130	0.316	20.0
BD08202	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0995	0.0974	0.0913	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BD08202	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.101	0.0999	0.0965	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD08202	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0999	0.0987	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.21	20.0
BD08202	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.124	0.122	0.103	0.0850 to 0.115	105	70.0 to 130	1.63	20.0
BD08202	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.126	0.124	0.105	0.0850 to 0.115	106	70.0 to 130	1.60	20.0
BD08202	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0979	0.0974	0.0997	0.0850 to 0.115	97.9	70.0 to 130	0.512	20.0
BD08202	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0968	0.0970	0.0983	0.0850 to 0.115	96.8	70.0 to 130	0.206	20.0
BD08202	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.06	1.05	1.02	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08202	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	1.04	1.04	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD08202	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0990	0.0986	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.405	20.0
BD08202	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0961	0.0966	0.0991	0.0850 to 0.115	96.1	70.0 to 130	0.519	20.0
BD08202	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	212	212	5.25	4.25 to 5.75	20.0	70.0 to 130	0.00	20.0
BD08202	Calcium, Total	mg/L	0.00486	0.152	5.00	216	211	5.08	4.25 to 5.75	200	70.0 to 130	2.34	20.0
BD08202	Chloride	mg/L	0.0415	1.00	50.0	107	107	10.3	9.00 to 11.0	97.2	80.0 to 120	0.00	20.0
BD08202	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0981	0.0971	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.02	20.0
BD08202	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.0986	0.0974	0.0997	0.0850 to 0.115	98.6	70.0 to 130	1.22	20.0
BD08202	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.101	0.0992	0.105	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD08202	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.0998	0.0999	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.100	20.0
BD08202	Fluoride	mg/L	0.0553	0.125	10.0	10.4	10.4	2.69	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BD08202	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	2.04	2.02	0.205	0.170 to 0.230	90.0	70.0 to 130	0.985	20.0
BD08202	Iron, Total	mg/L	-0.00309	0.0176	0.2	2.01	2.01	0.201	0.170 to 0.230	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 14:42
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-27HR

Laboratory ID Number: BD08200

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08202	Lead, Dissolved	mg/L	0.000093	0.000147	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BD08202	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD08202	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.291	0.288	0.198	0.170 to 0.230	103	70.0 to 130	1.04	20.0
BD08202	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.354	0.355	0.193	0.170 to 0.230	124	70.0 to 130	0.282	20.0
BD08202	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	95.3	94.8	5.06	4.25 to 5.75	60.0	70.0 to 130	0.526	20.0
BD08202	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	91.5	89.5	4.88	4.25 to 5.75	140	70.0 to 130	2.21	20.0
BD08202	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.200	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	2.02	20.0
BD08202	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.199	0.198	0.102	0.0850 to 0.115	99.1	70.0 to 130	0.504	20.0
BD08202	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00394	0.00379	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	3.88	20.0
BD08202	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.198	0.198	0.202	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD08202	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.200	0.200	0.202	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD08202	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	19.1	18.9	10.3	8.50 to 11.5	96.8	70.0 to 130	1.05	20.0
BD08202	Potassium, Total	mg/L	0.0148	0.367	10.0	19.9	19.9	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD08202	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.102	0.0999	0.0999	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD08202	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0947	0.0964	0.0946	0.0850 to 0.115	94.7	70.0 to 130	1.78	20.0
BD08202	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	10.9	10.8	1.03	0.850 to 1.15	99.0	70.0 to 130	0.922	20.0
BD08202	Silicon, Total	mg/L	-0.00123	0.0440	1.00	10.8	10.8	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD08202	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	87.7	86.7	4.87	4.25 to 5.75	26.0	70.0 to 130	1.15	20.0
BD08202	Sodium, Total	mg/L	-0.00101	0.0880	5.00	93.0	91.0	4.69	4.25 to 5.75	146	70.0 to 130	2.17	20.0
BD08202	Sulfate	mg/L	0.0982	2.0	1000	1750	1750	19.7	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BD08202	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.112	0.104	0.108	0.0850 to 0.115	112	70.0 to 130	7.41	20.0
BD08202	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08202	Total Organic Carbon	mg/L	0.133	1.00	10.0	10.9	10.7	9.10		93.8	80.0 to 120	1.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/25/23 14:42
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-27HR

Laboratory ID Number: BD08200

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08202	Alkalinity	mg CaCO3/L					221.06	49.34	45.0 to 55.0			1.23	10.0
BD08202	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	3.12	0.968	2.17	1.80 to 2.20	106	90.0 to 110	3.25	15.0
BD08200	Solids, Dissolved	mg/L	1.00	25.0			440	54.0	40.0 to 60.0			0.228	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-1

Location Code: WMWMILAPFB
Collected: 4/25/23 15:35
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08201

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/28/23 11:51	5/3/23 12:26		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/28/23 11:51	5/3/23 12:26		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/28/23 11:51	5/3/23 12:26		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/28/23 11:51	5/3/23 12:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/28/23 11:51	5/3/23 12:26		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	4/28/23 11:51	5/3/23 12:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 12:26		1	Not Detected	mg/L			
* Silicon, Total	4/28/23 11:51	5/3/23 12:26		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/28/23 11:51	5/3/23 12:26		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 18:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 23:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:37	4/28/23 16:37		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/1/23 13:20	5/2/23 13:55		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-1

Location Code: WMWMILAPFB

Collected: 4/25/23 15:35

Customer ID:

Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08201

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 17:09	5/3/23 17:09		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 14:38	5/1/23 14:38		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 11:03	5/2/23 11:03		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 11:23	4/28/23 11:23		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 4/25/23 15:35
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond Field Blank-1

Laboratory ID Number: BD08201

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08202	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08202	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0995	0.0974	0.0913	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BD08202	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0999	0.0987	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.21	20.0
BD08202	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.126	0.124	0.105	0.0850 to 0.115	106	70.0 to 130	1.60	20.0
BD08202	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0968	0.0970	0.0983	0.0850 to 0.115	96.8	70.0 to 130	0.206	20.0
BD08202	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	1.04	1.04	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD08202	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0961	0.0966	0.0991	0.0850 to 0.115	96.1	70.0 to 130	0.519	20.0
BD08202	Calcium, Total	mg/L	0.00486	0.152	5.00	216	211	5.08	4.25 to 5.75	200	70.0 to 130	2.34	20.0
BD08202	Chloride	mg/L	0.0415	1.00	50.0	107	107	10.3	9.00 to 11.0	97.2	80.0 to 120	0.00	20.0
BD08202	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.0986	0.0974	0.0997	0.0850 to 0.115	98.6	70.0 to 130	1.22	20.0
BD08202	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.0998	0.0999	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.100	20.0
BD08202	Fluoride	mg/L	0.0553	0.125	10.0	10.4	10.4	2.69	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BD08202	Iron, Total	mg/L	-0.00309	0.0176	0.2	2.01	2.01	0.201	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD08202	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD08202	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.354	0.355	0.193	0.170 to 0.230	124	70.0 to 130	0.282	20.0
BD08202	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	91.5	89.5	4.88	4.25 to 5.75	140	70.0 to 130	2.21	20.0
BD08202	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.199	0.198	0.102	0.0850 to 0.115	99.1	70.0 to 130	0.504	20.0
BD08202	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00394	0.00379	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	3.88	20.0
BD08202	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.200	0.200	0.202	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD08202	Potassium, Total	mg/L	0.0148	0.367	10.0	19.9	19.9	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD08202	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0947	0.0964	0.0946	0.0850 to 0.115	94.7	70.0 to 130	1.78	20.0
BD08202	Silicon, Total	mg/L	-0.00123	0.0440	1.00	10.8	10.8	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD08202	Sodium, Total	mg/L	-0.00101	0.0880	5.00	93.0	91.0	4.69	4.25 to 5.75	146	70.0 to 130	2.17	20.0
BD08202	Sulfate	mg/L	0.0982	2.0	1000	1750	1750	19.7	18.0 to 22.0	104	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 4/25/23 15:35
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond Field Blank-1

Laboratory ID Number: BD08201

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD08202	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08202	Total Organic Carbon	mg/L	0.133	1.00	10.0	10.9	10.7	9.10		93.8	80.0 to 120	1.85	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 4/25/23 15:35

Customer ID:

Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond Field Blank-1

Laboratory ID Number: BD08201

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08202	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	3.12	0.968	2.17	1.80 to 2.20	106	90.0 to 110	3.25	15.0
BD08200	Solids, Dissolved	mg/L	1.00	25.0			440	54.0	40.0 to 60.0			0.228	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-30H

Location Code: WMWMILAP
Collected: 4/26/23 10:30
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08202

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	4/28/23 11:51	5/3/23 12:29		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/28/23 11:51	5/3/23 14:21		10.15	206	mg/L	0.70035	4.06	RA	
* Iron, Total	4/28/23 11:51	5/3/23 12:29		1.015	1.81	mg/L	0.008120	0.0406		
* Lithium, Total	4/28/23 11:51	5/3/23 12:29		1.015	0.107	mg/L	0.007105	0.01999956		
* Magnesium, Total	4/28/23 11:51	5/3/23 14:21		10.15	84.5	mg/L	0.21315	4.06	RA	
* Molybdenum, Total	4/28/23 11:51	5/3/23 12:29		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	4/28/23 11:51	5/3/23 12:29		1	21.1	mg/L				
* Silicon, Total	4/28/23 11:51	5/3/23 12:29		1.015	9.86	mg/L	0.02030	0.25375		
* Sodium, Total	4/28/23 11:51	5/3/23 14:21		10.15	85.7	mg/L	0.4060	4.06	RA	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	4/28/23 08:55	5/3/23 12:45		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	4/28/23 08:55	5/3/23 14:19		10.15	211	mg/L	0.70035	4.06	RA	
* Iron, Dissolved	4/28/23 08:55	5/3/23 12:45		1.015	1.86	mg/L	0.008120	0.0406		
* Lithium, Dissolved	4/28/23 08:55	5/3/23 12:45		1.015	0.0854	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	4/28/23 08:55	5/3/23 14:19		10.15	92.3	mg/L	0.21315	4.06	RA	
* Molybdenum, Dissolved	4/28/23 08:55	5/3/23 12:45		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	4/28/23 08:55	5/3/23 12:45		1	21.2	mg/L				
* Silicon, Dissolved	4/28/23 08:55	5/3/23 12:45		1.015	9.91	mg/L	0.02030	0.25375		
* Sodium, Dissolved	4/28/23 08:55	5/3/23 14:19		10.15	86.4	mg/L	0.4060	4.06	RA	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	4/28/23 11:51	4/28/23 18:09		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	4/28/23 11:51	4/28/23 18:09		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	4/28/23 11:51	4/28/23 18:09		1.015	0.000359	mg/L	0.000112	0.000203		
* Barium, Total	4/28/23 11:51	4/28/23 18:09		1.015	0.0195	mg/L	0.000508	0.001015		
* Beryllium, Total	4/28/23 11:51	4/28/23 18:09		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/28/23 11:51	4/28/23 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/28/23 11:51	4/28/23 18:09		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	4/28/23 11:51	4/28/23 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	4/28/23 11:51	4/28/23 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	4/28/23 11:51	4/28/23 18:09		1.015	0.0999	mg/L	0.000152	0.001015		

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-30H

Location Code: WMWMILAP
Collected: 4/26/23 10:30
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08202

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	4/28/23 11:51	4/28/23 18:09		1.015	9.70	mg/L	0.169505	0.5075	
* Selenium, Total	4/28/23 11:51	4/28/23 18:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/28/23 11:51	4/28/23 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	0.000330	mg/L	0.000112	0.000203	
* Barium, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	0.0191	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	0.100	mg/L	0.000152	0.001015	
* Potassium, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	9.42	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/28/23 08:55	4/28/23 15:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/27/23 17:39	4/27/23 23:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	4/28/23 16:38	4/28/23 16:38		1	1.00	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/8/23 12:40	5/9/23 14:17		1	224	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/1/23 13:20	5/2/23 13:55		1	1370	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	224	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/8/23 12:40	5/9/23 14:17		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/3/23 17:22	5/3/23 17:22		1	1.52	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-30H

Location Code: WMWMILAP
Collected: 4/26/23 10:30
Customer ID:
Submittal Date: 4/27/23 10:01

Laboratory ID Number: BD08202

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	5/1/23 14:39	5/1/23 14:39		5	58.4	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	5/2/23 11:04	5/2/23 11:04		1	0.142	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/28/23 11:24	4/28/23 11:24		50	710	mg/L	30.0	100	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/26/23 10:26	4/26/23 10:26			1575.26	uS/cm			FA
pH	4/26/23 10:26	4/26/23 10:26			6.77	SU			FA
Temperature	4/26/23 10:26	4/26/23 10:26			17.43	C			FA
Turbidity	4/26/23 10:26	4/26/23 10:26			3.39	NTU			FA
Sulfide	4/26/23 10:26	4/26/23 10:26			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/26/23 10:30
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-30H

Laboratory ID Number: BD08202

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08202	Aluminum, Dissolved	mg/L	0.000822	0.0198	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08202	Aluminum, Total	mg/L	0.00169	0.0198	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08202	Antimony, Dissolved	mg/L	0.000748	0.00100	0.100	0.0952	0.0949	0.0905	0.0850 to 0.115	95.2	70.0 to 130	0.316	20.0
BD08202	Antimony, Total	mg/L	0.000495	0.00100	0.100	0.0995	0.0974	0.0913	0.0850 to 0.115	99.5	70.0 to 130	2.13	20.0
BD08202	Arsenic, Dissolved	mg/L	0.000092	0.000200	0.100	0.101	0.0999	0.0965	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD08202	Arsenic, Total	mg/L	-0.0000114	0.000200	0.100	0.0999	0.0987	0.0985	0.0850 to 0.115	99.5	70.0 to 130	1.21	20.0
BD08202	Barium, Dissolved	mg/L	0.0000142	0.00100	0.100	0.124	0.122	0.103	0.0850 to 0.115	105	70.0 to 130	1.63	20.0
BD08202	Barium, Total	mg/L	0.0000368	0.00100	0.100	0.126	0.124	0.105	0.0850 to 0.115	106	70.0 to 130	1.60	20.0
BD08202	Beryllium, Dissolved	mg/L	0.0000228	0.000880	0.100	0.0979	0.0974	0.0997	0.0850 to 0.115	97.9	70.0 to 130	0.512	20.0
BD08202	Beryllium, Total	mg/L	0.0000171	0.000880	0.100	0.0968	0.0970	0.0983	0.0850 to 0.115	96.8	70.0 to 130	0.206	20.0
BD08202	Boron, Dissolved	mg/L	-0.000578	0.0650	1.00	1.06	1.05	1.02	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08202	Boron, Total	mg/L	-5.280E-05	0.0650	1.00	1.04	1.04	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD08202	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.0990	0.0986	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.405	20.0
BD08202	Cadmium, Total	mg/L	0.0000097	0.000147	0.100	0.0961	0.0966	0.0991	0.0850 to 0.115	96.1	70.0 to 130	0.519	20.0
BD08202	Calcium, Dissolved	mg/L	-0.00130	0.152	5.00	212	212	5.25	4.25 to 5.75	20.0	70.0 to 130	0.00	20.0
BD08202	Calcium, Total	mg/L	0.00486	0.152	5.00	216	211	5.08	4.25 to 5.75	200	70.0 to 130	2.34	20.0
BD08202	Chloride	mg/L	0.0415	1.00	50.0	107	107	10.3	9.00 to 11.0	97.2	80.0 to 120	0.00	20.0
BD08202	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.0981	0.0971	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.02	20.0
BD08202	Chromium, Total	mg/L	-0.0000529	0.000440	0.100	0.0986	0.0974	0.0997	0.0850 to 0.115	98.6	70.0 to 130	1.22	20.0
BD08202	Cobalt, Dissolved	mg/L	-0.0000236	0.000147	0.100	0.101	0.0992	0.105	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD08202	Cobalt, Total	mg/L	-0.0000187	0.000147	0.100	0.0998	0.0999	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.100	20.0
BD08202	Fluoride	mg/L	0.0553	0.125	10.0	10.4	10.4	2.69	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BD08202	Iron, Dissolved	mg/L	0.000045	0.0176	0.2	2.04	2.02	0.205	0.170 to 0.230	90.0	70.0 to 130	0.985	20.0
BD08202	Iron, Total	mg/L	-0.00309	0.0176	0.2	2.01	2.01	0.201	0.170 to 0.230	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/26/23 10:30
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-30H

Laboratory ID Number: BD08202

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08202	Lead, Dissolved	mg/L	0.0000093	0.000147	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BD08202	Lead, Total	mg/L	0.0000138	0.000147	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD08202	Lithium, Dissolved	mg/L	0.000819	0.0154	0.200	0.291	0.288	0.198	0.170 to 0.230	103	70.0 to 130	1.04	20.0
BD08202	Lithium, Total	mg/L	-3.000E-05	0.0154	0.200	0.354	0.355	0.193	0.170 to 0.230	124	70.0 to 130	0.282	20.0
BD08202	Magnesium, Dissolved	mg/L	0.0111	0.0462	5.00	95.3	94.8	5.06	4.25 to 5.75	60.0	70.0 to 130	0.526	20.0
BD08202	Magnesium, Total	mg/L	-0.000844	0.0462	5.00	91.5	89.5	4.88	4.25 to 5.75	140	70.0 to 130	2.21	20.0
BD08202	Manganese, Dissolved	mg/L	0.0000627	0.00033	0.100	0.200	0.196	0.103	0.0850 to 0.115	100	70.0 to 130	2.02	20.0
BD08202	Manganese, Total	mg/L	0.0000900	0.00033	0.100	0.199	0.198	0.102	0.0850 to 0.115	99.1	70.0 to 130	0.504	20.0
BD08202	Mercury, Total by CVAA	mg/L	5.000E-05	0.000500	0.004	0.00394	0.00379	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	3.88	20.0
BD08202	Molybdenum, Dissolved	mg/L	0.000534	0.0100	0.2	0.198	0.198	0.202	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD08202	Molybdenum, Total	mg/L	-0.001	0.0100	0.2	0.200	0.200	0.202	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD08202	Potassium, Dissolved	mg/L	0.0114	0.367	10.0	19.1	18.9	10.3	8.50 to 11.5	96.8	70.0 to 130	1.05	20.0
BD08202	Potassium, Total	mg/L	0.0148	0.367	10.0	19.9	19.9	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD08202	Selenium, Dissolved	mg/L	0.0000985	0.00100	0.100	0.102	0.0999	0.0999	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD08202	Selenium, Total	mg/L	0.000508	0.00100	0.100	0.0947	0.0964	0.0946	0.0850 to 0.115	94.7	70.0 to 130	1.78	20.0
BD08202	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	10.9	10.8	1.03	0.850 to 1.15	99.0	70.0 to 130	0.922	20.0
BD08202	Silicon, Total	mg/L	-0.00123	0.0440	1.00	10.8	10.8	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD08202	Sodium, Dissolved	mg/L	0.000859	0.0880	5.00	87.7	86.7	4.87	4.25 to 5.75	26.0	70.0 to 130	1.15	20.0
BD08202	Sodium, Total	mg/L	-0.00101	0.0880	5.00	93.0	91.0	4.69	4.25 to 5.75	146	70.0 to 130	2.17	20.0
BD08202	Sulfate	mg/L	0.0982	2.0	1000	1750	1750	19.7	18.0 to 22.0	104	80.0 to 120	0.00	20.0
BD08202	Thallium, Dissolved	mg/L	-0.0000226	0.000147	0.100	0.112	0.104	0.108	0.0850 to 0.115	112	70.0 to 130	7.41	20.0
BD08202	Thallium, Total	mg/L	-0.0000148	0.000147	0.100	0.108	0.107	0.105	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08202	Total Organic Carbon	mg/L	0.133	1.00	10.0	10.9	10.7	9.10		93.8	80.0 to 120	1.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 4/26/23 10:30
Customer ID:
Delivery Date: 4/27/23 10:01

Description: Miller Ash Pond - MW-30H

Laboratory ID Number: BD08202

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08202	Alkalinity	mg CaCO3/L					221.06	49.34	45.0 to 55.0			1.23	10.0
BD08202	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	3.12	0.968	2.17	1.80 to 2.20	106	90.0 to 110	3.25	15.0
BD08202	Solids, Dissolved	mg/L	1.00	25.0			1360	54.0	40.0 to 60.0			0.733	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23A

Location Code: WMWMILAP

Collected: 5/1/23 12:03

Customer ID:

Submittal Date: 5/4/23 10:08

Laboratory ID Number: BD08661

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 13:02		1.015	0.659	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 16:35		10.15	138	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 13:02		1.015	0.513	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:02		1.015	1.18	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 16:35		10.15	47.6	mg/L	0.21315	4.06	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:02		1.015	0.00625	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:02		1	17.7	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:02		1.015	8.29	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 18:05		101.5	1400	mg/L	4.060	40.6	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 13:48		1.015	0.655	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/11/23 12:38		10.15	142	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/8/23 13:48		1.015	0.433	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 13:48		1.015	0.802	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/11/23 12:38		10.15	49.0	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 13:48		1.015	0.00694	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 13:48		1	16.0	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 13:48		1.015	7.47	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 14:13		101.5	1470	mg/L	4.060	40.6	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 12:21		1.015	0.00148	mg/L	0.000710	0.001015	
* Aluminum, Total	5/5/23 07:54	5/8/23 12:21		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 12:21		1.015	0.00459	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 14:53		10.15	6.16	mg/L	0.005075	0.01015	
* Beryllium, Total	5/5/23 07:54	5/8/23 12:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 12:21		1.015	0.000286	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 12:21		1.015	0.000792	mg/L	0.000068	0.000203	
* Lead, Total	5/5/23 07:54	5/8/23 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 12:21		1.015	0.0759	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23A

Location Code: WMWMILAP

Collected: 5/1/23 12:03

Customer ID:

Submittal Date: 5/4/23 10:08

Laboratory ID Number: BD08661

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 12:21		1.015	8.57	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 12:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	0.000924	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	0.00394	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/8/23 15:18		10.15	5.90	mg/L	0.005075	0.01015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	0.000695	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	0.0747	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	8.50	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/4/23 23:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:12	5/4/23 14:12		1	1.06	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	244	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	4960	mg/L		500	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	243	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	0.974	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 16:54	5/8/23 16:54		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23A

Location Code: WMWMILAP

Collected: 5/1/23 12:03

Customer ID:

Submittal Date: 5/4/23 10:08

Laboratory ID Number: BD08661

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:38	5/10/23 15:38		200	2670	mg/L	100.00	400	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:01	5/10/23 14:01		1	0.412	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 10:06	5/18/23 10:06		3	52.3	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/1/23 12:00	5/1/23 12:00			8140.54	uS/cm			FA
pH	5/1/23 12:00	5/1/23 12:00			7.40	SU			FA
Temperature	5/1/23 12:00	5/1/23 12:00			20.23	C			FA
Turbidity	5/1/23 12:00	5/1/23 12:00			2.66	NTU			FA
Sulfide	5/1/23 12:00	5/1/23 12:00			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/1/23 12:03
Customer ID:
Delivery Date: 5/4/23 10:08

Description: Miller Ash Pond - MW-23A

Laboratory ID Number: BD08661

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD08670	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.105	0.104	0.107	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08672	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0969	0.0973	0.0912	0.0850 to 0.115	96.9	70.0 to 130	0.412	20.0
BD08670	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.0969	0.0985	0.0999	0.0850 to 0.115	96.9	70.0 to 130	1.64	20.0
BD08672	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.110	0.111	0.0991	0.0850 to 0.115	102	70.0 to 130	0.905	20.0
BD08670	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.0994	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD08672	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.120	0.120	0.0996	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08670	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.0991	0.101	0.100	0.0850 to 0.115	99.1	70.0 to 130	1.90	20.0
BD08672	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0995	0.0975	0.105	0.0850 to 0.115	99.5	70.0 to 130	2.03	20.0
BD08670	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0992	0.103	0.102	0.0850 to 0.115	99.2	70.0 to 130	3.76	20.0
BD08672	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	6.52	6.56	1.02	0.850 to 1.15	101	70.0 to 130	0.612	20.0
BD08670	Boron, Total	mg/L	0.000949	0.0650	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD08672	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0966	0.0960	0.0956	0.0850 to 0.115	96.6	70.0 to 130	0.623	20.0
BD08670	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.100	0.0985	0.101	0.0850 to 0.115	100	70.0 to 130	1.51	20.0
BD08672	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	34.1	33.5	4.95	4.25 to 5.75	96.0	70.0 to 130	1.78	20.0
BD08670	Calcium, Total	mg/L	0.000236	0.152	5.00	5.24	5.16	5.12	4.25 to 5.75	105	70.0 to 130	1.54	20.0
BD08670	Chloride	mg/L	0.0652	1.00	10.0	10.5	9.95	10.0	9.00 to 11.0	105	80.0 to 120	5.38	20.0
BD08672	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0976	0.0984	0.0967	0.0850 to 0.115	97.6	70.0 to 130	0.816	20.0
BD08670	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0993	0.0995	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.201	20.0
BD08672	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0991	0.0989	0.0980	0.0850 to 0.115	98.5	70.0 to 130	0.202	20.0
BD08670	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Fluoride	mg/L	0.0223	0.125	2.50	2.53	2.57	2.52	2.25 to 2.75	101	80.0 to 120	1.57	20.0
BD08672	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.20	1.22	0.199	0.170 to 0.230	90.0	70.0 to 130	1.65	20.0
BD08670	Iron, Total	mg/L	-0.00139	0.0176	0.2	0.209	0.205	0.204	0.170 to 0.230	104	70.0 to 130	1.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/1/23 12:03
Customer ID:
Delivery Date: 5/4/23 10:08

Description: Miller Ash Pond - MW-23A

Laboratory ID Number: BD08661

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Lead, Dissolved	mg/L	0.0000169	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD08672	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.267	0.268	0.199	0.170 to 0.230	104	70.0 to 130	0.374	20.0
BD08670	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.195	0.193	0.193	0.170 to 0.230	97.5	70.0 to 130	1.03	20.0
BD08672	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	22.4	22.1	5.01	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BD08670	Magnesium, Total	mg/L	0.00221	0.0462	5.00	5.03	4.97	4.95	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD08672	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.463	0.466	0.100	0.0850 to 0.115	96.0	70.0 to 130	0.646	20.0
BD08670	Manganese, Total	mg/L	0.000102	0.00033	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08661	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00395	0.00396	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BD08672	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.563	0.571	0.196	0.170 to 0.230	95.0	70.0 to 130	1.41	20.0
BD08670	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD08672	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	16.7	16.7	9.71	8.50 to 11.5	95.3	70.0 to 130	0.00	20.0
BD08670	Potassium, Total	mg/L	0.0190	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BD08672	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08670	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.100	0.104	0.104	0.0850 to 0.115	100	70.0 to 130	3.92	20.0
BD08672	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	8.08	8.12	1.01	0.850 to 1.15	96.0	70.0 to 130	0.494	20.0
BD08670	Silicon, Total	mg/L	-0.000181	0.0440	1.00	1.06	1.05	1.04	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08672	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	335	305	4.86	4.25 to 5.75	-160	70.0 to 130	9.38	20.0
BD08670	Sodium, Total	mg/L	0.000886	0.0880	5.00	4.78	4.72	4.73	4.25 to 5.75	95.6	70.0 to 130	1.26	20.0
BD08669	Sulfate	mg/L	0.394	2.0	160	303	307	19.1	18.0 to 22.0	101	80.0 to 120	1.31	20.0
BD08672	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.108	0.107	0.112	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Total Organic Carbon	mg/L	0.0518	1.00	10.0	10.4	10.6	10.0		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/1/23 12:03

Customer ID:

Delivery Date: 5/4/23 10:08

Description: Miller Ash Pond - MW-23A

Laboratory ID Number: BD08661

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08670	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.07	0.032	1.92	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD08662	Solids, Dissolved	mg/L	1.00	25.0			4720	52.0	40.0 to 60.0			2.92	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23

Location Code: WMWMILAP
Collected: 5/1/23 14:23
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08662

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 13:05		1.015	0.726	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 16:39		10.15	143	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 13:05		1.015	1.71	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:05		1.015	1.30	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 16:39		10.15	50.4	mg/L	0.21315	4.06	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:05		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:05		1	18.7	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:05		1.015	8.72	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 18:08		101.5	1390	mg/L	4.060	40.6	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 13:51		1.015	0.713	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/11/23 12:41		10.15	148	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/8/23 13:51		1.015	1.47	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 13:51		1.015	0.883	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/11/23 12:41		10.15	51.5	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 13:51		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 13:51		1	16.6	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 13:51		1.015	7.78	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 14:16		101.5	1450	mg/L	4.060	40.6	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 12:24		1.015	0.00113	mg/L	0.000710	0.001015	
* Aluminum, Total	5/5/23 07:54	5/8/23 12:24		1.015	0.0205	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 12:24		1.015	0.000474	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 14:57		92.365	12.8	mg/L	0.046182	0.092365	
* Beryllium, Total	5/5/23 07:54	5/8/23 12:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 12:24		1.015	0.000248	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 12:24		1.015	0.0000877	mg/L	0.000068	0.000203	J
* Lead, Total	5/5/23 07:54	5/8/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 12:24		1.015	0.0932	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23

Location Code: WMWMILAP
Collected: 5/1/23 14:23
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08662

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 12:24		1.015	6.04	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 12:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	0.000767	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	0.000525	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/8/23 15:22		92.365	12.5	mg/L	0.046182	0.092365	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	0.0936	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	5.90	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 16:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/4/23 23:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:14	5/4/23 14:14		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	302	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	4860	mg/L		500	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	301	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	1.26	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 17:09	5/8/23 17:09		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23

Location Code: WMWMILAP

Collected: 5/1/23 14:23

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08662

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:39	5/10/23 15:39		200	2600	mg/L	100.00	400	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:03	5/10/23 14:03		1	0.371	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 09:54	5/18/23 09:54		1	3.55	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/1/23 14:20	5/1/23 14:20			8018.49	uS/cm			FA
pH	5/1/23 14:20	5/1/23 14:20			7.59	SU			FA
Temperature	5/1/23 14:20	5/1/23 14:20			20.47	C			FA
Turbidity	5/1/23 14:20	5/1/23 14:20			4.05	NTU			FA
Sulfide	5/1/23 14:20	5/1/23 14:20			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/1/23 14:23
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-23

Laboratory ID Number: BD08662

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD08670	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.105	0.104	0.107	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08672	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0969	0.0973	0.0912	0.0850 to 0.115	96.9	70.0 to 130	0.412	20.0
BD08670	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.0969	0.0985	0.0999	0.0850 to 0.115	96.9	70.0 to 130	1.64	20.0
BD08672	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.110	0.111	0.0991	0.0850 to 0.115	102	70.0 to 130	0.905	20.0
BD08670	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.0994	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD08672	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.120	0.120	0.0996	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08670	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.0991	0.101	0.100	0.0850 to 0.115	99.1	70.0 to 130	1.90	20.0
BD08672	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0995	0.0975	0.105	0.0850 to 0.115	99.5	70.0 to 130	2.03	20.0
BD08670	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0992	0.103	0.102	0.0850 to 0.115	99.2	70.0 to 130	3.76	20.0
BD08672	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	6.52	6.56	1.02	0.850 to 1.15	101	70.0 to 130	0.612	20.0
BD08670	Boron, Total	mg/L	0.000949	0.0650	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD08672	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0966	0.0960	0.0956	0.0850 to 0.115	96.6	70.0 to 130	0.623	20.0
BD08670	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.100	0.0985	0.101	0.0850 to 0.115	100	70.0 to 130	1.51	20.0
BD08672	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	34.1	33.5	4.95	4.25 to 5.75	96.0	70.0 to 130	1.78	20.0
BD08670	Calcium, Total	mg/L	0.000236	0.152	5.00	5.24	5.16	5.12	4.25 to 5.75	105	70.0 to 130	1.54	20.0
BD08670	Chloride	mg/L	0.0652	1.00	10.0	10.5	9.95	10.0	9.00 to 11.0	105	80.0 to 120	5.38	20.0
BD08672	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0976	0.0984	0.0967	0.0850 to 0.115	97.6	70.0 to 130	0.816	20.0
BD08670	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0993	0.0995	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.201	20.0
BD08672	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0991	0.0989	0.0980	0.0850 to 0.115	98.5	70.0 to 130	0.202	20.0
BD08670	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Fluoride	mg/L	0.0223	0.125	2.50	2.53	2.57	2.52	2.25 to 2.75	101	80.0 to 120	1.57	20.0
BD08672	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.20	1.22	0.199	0.170 to 0.230	90.0	70.0 to 130	1.65	20.0
BD08670	Iron, Total	mg/L	-0.00139	0.0176	0.2	0.209	0.205	0.204	0.170 to 0.230	104	70.0 to 130	1.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/1/23 14:23
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-23

Laboratory ID Number: BD08662

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Lead, Dissolved	mg/L	0.0000169	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD08672	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.267	0.268	0.199	0.170 to 0.230	104	70.0 to 130	0.374	20.0
BD08670	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.195	0.193	0.193	0.170 to 0.230	97.5	70.0 to 130	1.03	20.0
BD08672	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	22.4	22.1	5.01	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BD08670	Magnesium, Total	mg/L	0.00221	0.0462	5.00	5.03	4.97	4.95	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD08672	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.463	0.466	0.100	0.0850 to 0.115	96.0	70.0 to 130	0.646	20.0
BD08670	Manganese, Total	mg/L	0.000102	0.00033	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08661	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00395	0.00396	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BD08672	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.563	0.571	0.196	0.170 to 0.230	95.0	70.0 to 130	1.41	20.0
BD08670	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD08672	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	16.7	16.7	9.71	8.50 to 11.5	95.3	70.0 to 130	0.00	20.0
BD08670	Potassium, Total	mg/L	0.0190	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BD08672	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08670	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.100	0.104	0.104	0.0850 to 0.115	100	70.0 to 130	3.92	20.0
BD08672	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	8.08	8.12	1.01	0.850 to 1.15	96.0	70.0 to 130	0.494	20.0
BD08670	Silicon, Total	mg/L	-0.000181	0.0440	1.00	1.06	1.05	1.04	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08672	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	335	305	4.86	4.25 to 5.75	-160	70.0 to 130	9.38	20.0
BD08670	Sodium, Total	mg/L	0.000886	0.0880	5.00	4.78	4.72	4.73	4.25 to 5.75	95.6	70.0 to 130	1.26	20.0
BD08669	Sulfate	mg/L	0.394	2.0	160	303	307	19.1	18.0 to 22.0	101	80.0 to 120	1.31	20.0
BD08672	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.108	0.107	0.112	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Total Organic Carbon	mg/L	0.0518	1.00	10.0	10.4	10.6	10.0		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/1/23 14:23

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-23

Laboratory ID Number: BD08662

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08670	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.07	0.032	1.92	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD08662	Solids, Dissolved	mg/L	1.00	25.0			4720	52.0	40.0 to 60.0			2.92	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Equipment Blank-1

Location Code: WMWMILAPEB
Collected: 5/1/23 15:35
Customer ID:
Submittal Date: 5/4/23 10:10

Laboratory ID Number: BD08663

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 13:09		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/5/23 07:54	5/11/23 13:09		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/5/23 07:54	5/11/23 13:09		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/5/23 07:54	5/11/23 13:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/23 07:54	5/11/23 13:09		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:09		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:09		1	Not Detected	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:09		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/5/23 07:54	5/11/23 13:09		1.015	0.303	mg/L	0.04060	0.406	J
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	5/5/23 07:54	5/8/23 12:28		1.015	0.000518	mg/L	0.000508	0.001015	J
* Beryllium, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 12:28		1.015	0.000272	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ELH						
* Mercury, Total by CVAA	5/4/23 18:23	5/4/23 23:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	5/4/23 14:15	5/4/23 14:15		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Equipment Blank-1

Location Code: WMWMILAPEB

Collected: 5/1/23 15:35

Customer ID:

Submittal Date: 5/4/23 10:10

Laboratory ID Number: BD08663

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 17:26	5/8/23 17:26		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:40	5/10/23 15:40		1	Not Detected	mg/L	0.50	2	U
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:04	5/10/23 14:04		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 09:55	5/18/23 09:55		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB

Sample Date: 5/1/23 15:35

Customer ID:

Delivery Date: 5/4/23 10:10

Description: Miller Ash Pond Equipment Blank-1

Laboratory ID Number: BD08663

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08670	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.105	0.104	0.107	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.0969	0.0985	0.0999	0.0850 to 0.115	96.9	70.0 to 130	1.64	20.0
BD08670	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.0994	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD08670	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.0991	0.101	0.100	0.0850 to 0.115	99.1	70.0 to 130	1.90	20.0
BD08670	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0992	0.103	0.102	0.0850 to 0.115	99.2	70.0 to 130	3.76	20.0
BD08670	Boron, Total	mg/L	0.000949	0.0650	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD08670	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.100	0.0985	0.101	0.0850 to 0.115	100	70.0 to 130	1.51	20.0
BD08670	Calcium, Total	mg/L	0.000236	0.152	5.00	5.24	5.16	5.12	4.25 to 5.75	105	70.0 to 130	1.54	20.0
BD08670	Chloride	mg/L	0.0652	1.00	10.0	10.5	9.95	10.0	9.00 to 11.0	105	80.0 to 120	5.38	20.0
BD08670	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0993	0.0995	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.201	20.0
BD08670	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Fluoride	mg/L	0.0223	0.125	2.50	2.53	2.57	2.52	2.25 to 2.75	101	80.0 to 120	1.57	20.0
BD08670	Iron, Total	mg/L	-0.00139	0.0176	0.2	0.209	0.205	0.204	0.170 to 0.230	104	70.0 to 130	1.93	20.0
BD08670	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD08670	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.195	0.193	0.193	0.170 to 0.230	97.5	70.0 to 130	1.03	20.0
BD08670	Magnesium, Total	mg/L	0.00221	0.0462	5.00	5.03	4.97	4.95	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD08670	Manganese, Total	mg/L	0.000102	0.00033	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08661	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00395	0.00396	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BD08670	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD08670	Potassium, Total	mg/L	0.0190	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BD08670	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.100	0.104	0.104	0.0850 to 0.115	100	70.0 to 130	3.92	20.0
BD08670	Silicon, Total	mg/L	-0.000181	0.0440	1.00	1.06	1.05	1.04	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08670	Sodium, Total	mg/L	0.000886	0.0880	5.00	4.78	4.72	4.73	4.25 to 5.75	95.6	70.0 to 130	1.26	20.0
BD08669	Sulfate	mg/L	0.394	2.0	160	303	307	19.1	18.0 to 22.0	101	80.0 to 120	1.31	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB

Sample Date: 5/1/23 15:35

Customer ID:

Delivery Date: 5/4/23 10:10

Description: Miller Ash Pond Equipment Blank-1

Laboratory ID Number: BD08663

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD08670	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.108	0.107	0.112	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Total Organic Carbon	mg/L	0.0518	1.00	10.0	10.4	10.6	10.0		104	80.0 to 120	1.90	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB

Sample Date: 5/1/23 15:35

Customer ID:

Delivery Date: 5/4/23 10:10

Description: Miller Ash Pond Equipment Blank-1

Laboratory ID Number: BD08663

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD08670	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.07	0.032	1.92	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD08662	Solids, Dissolved	mg/L	1.00	25.0			4720	52.0	40.0 to 60.0			2.92	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-4V

Location Code: WMWMILAP

Collected: 5/2/23 08:36

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08664

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 13:12		1.015	0.330	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 16:42		10.15	108	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 13:12		1.015	0.839	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:12		1.015	0.0434	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 13:12		1.015	26.5	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:12		1.015	0.00673	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:12		1	13.6	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:12		1.015	6.34	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 13:12		1.015	39.0	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	5/4/23 13:04	5/8/23 13:54		1.015	0.337	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/11/23 12:44		10.15	104	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/8/23 13:54		1.015	0.423	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 13:54		1.015	0.0390	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 13:54		1.015	27.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 13:54		1.015	0.00676	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 13:54		1	12.7	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 13:54		1.015	5.92	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/8/23 13:54		1.015	39.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 12:31		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 12:31		1.015	0.112	mg/L	0.009135	0.05075	
* Arsenic, Total	5/5/23 07:54	5/8/23 12:31		1.015	0.000706	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 12:31		1.015	0.0316	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 12:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 12:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 12:31		1.015	0.000262	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 12:31		1.015	0.00404	mg/L	0.000068	0.000203	
* Lead, Total	5/5/23 07:54	5/8/23 12:31		1.015	0.000167	mg/L	0.000068	0.000203	J
* Manganese, Total	5/5/23 07:54	5/8/23 12:31		1.015	0.640	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-4V

Location Code: WMWMILAP

Collected: 5/2/23 08:36

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08664

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 12:31		1.015	6.46	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 12:31		1.015	0.000535	mg/L	0.000508	0.001015	J
* Thallium, Total	5/5/23 07:54	5/8/23 12:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	0.000290	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	0.0312	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	0.00357	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	0.638	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	6.30	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 16:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/4/23 23:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:17	5/4/23 14:17		1	0.521	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	61.6	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	630	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	61.6	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 17:39	5/8/23 17:39		1	2.38	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-4V

Location Code: WMWMILAP

Collected: 5/2/23 08:36

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08664

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:34	5/10/23 15:34		5	39.2	mg/L	2.50	10	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:05	5/10/23 14:05		1	0.257	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 10:08	5/18/23 10:08		20	306	mg/L	12.0	40	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/2/23 08:33	5/2/23 08:33			841.74	uS/cm			FA
pH	5/2/23 08:33	5/2/23 08:33			6.59	SU			FA
Temperature	5/2/23 08:33	5/2/23 08:33			18.27	C			FA
Turbidity	5/2/23 08:33	5/2/23 08:33			8.35	NTU			FA
Sulfide	5/2/23 08:33	5/2/23 08:33			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 08:36
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-4V

Laboratory ID Number: BD08664

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD08672	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD08670	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.105	0.104	0.107	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08672	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0969	0.0973	0.0912	0.0850 to 0.115	96.9	70.0 to 130	0.412	20.0
BD08670	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.0969	0.0985	0.0999	0.0850 to 0.115	96.9	70.0 to 130	1.64	20.0
BD08672	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.110	0.111	0.0991	0.0850 to 0.115	102	70.0 to 130	0.905	20.0
BD08670	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.0994	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD08672	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.120	0.120	0.0996	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08670	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.0991	0.101	0.100	0.0850 to 0.115	99.1	70.0 to 130	1.90	20.0
BD08672	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0995	0.0975	0.105	0.0850 to 0.115	99.5	70.0 to 130	2.03	20.0
BD08670	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0992	0.103	0.102	0.0850 to 0.115	99.2	70.0 to 130	3.76	20.0
BD08672	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	6.52	6.56	1.02	0.850 to 1.15	101	70.0 to 130	0.612	20.0
BD08670	Boron, Total	mg/L	0.000949	0.0650	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD08672	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0966	0.0960	0.0956	0.0850 to 0.115	96.6	70.0 to 130	0.623	20.0
BD08670	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.100	0.0985	0.101	0.0850 to 0.115	100	70.0 to 130	1.51	20.0
BD08672	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	34.1	33.5	4.95	4.25 to 5.75	96.0	70.0 to 130	1.78	20.0
BD08670	Calcium, Total	mg/L	0.000236	0.152	5.00	5.24	5.16	5.12	4.25 to 5.75	105	70.0 to 130	1.54	20.0
BD08670	Chloride	mg/L	0.0652	1.00	10.0	10.5	9.95	10.0	9.00 to 11.0	105	80.0 to 120	5.38	20.0
BD08672	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0976	0.0984	0.0967	0.0850 to 0.115	97.6	70.0 to 130	0.816	20.0
BD08670	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0993	0.0995	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.201	20.0
BD08672	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0991	0.0989	0.0980	0.0850 to 0.115	98.5	70.0 to 130	0.202	20.0
BD08670	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Fluoride	mg/L	0.0223	0.125	2.50	2.53	2.57	2.52	2.25 to 2.75	101	80.0 to 120	1.57	20.0
BD08672	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.20	1.22	0.199	0.170 to 0.230	90.0	70.0 to 130	1.65	20.0
BD08670	Iron, Total	mg/L	-0.00139	0.0176	0.2	0.209	0.205	0.204	0.170 to 0.230	104	70.0 to 130	1.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 08:36
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-4V

Laboratory ID Number: BD08664

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Lead, Total	mg/L	0.000068	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD08672	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.267	0.268	0.199	0.170 to 0.230	104	70.0 to 130	0.374	20.0
BD08670	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.195	0.193	0.193	0.170 to 0.230	97.5	70.0 to 130	1.03	20.0
BD08672	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	22.4	22.1	5.01	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BD08670	Magnesium, Total	mg/L	0.00221	0.0462	5.00	5.03	4.97	4.95	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD08672	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.463	0.466	0.100	0.0850 to 0.115	96.0	70.0 to 130	0.646	20.0
BD08670	Manganese, Total	mg/L	0.000102	0.00033	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08661	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00395	0.00396	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BD08672	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.563	0.571	0.196	0.170 to 0.230	95.0	70.0 to 130	1.41	20.0
BD08670	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD08672	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	16.7	16.7	9.71	8.50 to 11.5	95.3	70.0 to 130	0.00	20.0
BD08670	Potassium, Total	mg/L	0.0190	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BD08672	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08670	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.100	0.104	0.104	0.0850 to 0.115	100	70.0 to 130	3.92	20.0
BD08672	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	8.08	8.12	1.01	0.850 to 1.15	96.0	70.0 to 130	0.494	20.0
BD08670	Silicon, Total	mg/L	-0.000181	0.0440	1.00	1.06	1.05	1.04	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08672	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	335	305	4.86	4.25 to 5.75	-160	70.0 to 130	9.38	20.0
BD08670	Sodium, Total	mg/L	0.000886	0.0880	5.00	4.78	4.72	4.73	4.25 to 5.75	95.6	70.0 to 130	1.26	20.0
BD08669	Sulfate	mg/L	0.394	2.0	160	303	307	19.1	18.0 to 22.0	101	80.0 to 120	1.31	20.0
BD08672	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.108	0.107	0.112	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Total Organic Carbon	mg/L	0.0518	1.00	10.0	10.4	10.6	10.0		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 08:36

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-4V

Laboratory ID Number: BD08664

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08670	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.07	0.032	1.92	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD08677	Solids, Dissolved	mg/L	1.00	25.0			1160	52.0	40.0 to 60.0			1.71	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-4

Location Code: WMWMILAP

Collected: 5/2/23 09:39

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08665

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 13:16		1.015	0.382	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 16:45		10.15	146	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 13:16		1.015	0.178	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:16		1.015	0.0640	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 13:16		1.015	29.5	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:16		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:16		1	14.0	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:16		1.015	6.52	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 13:16		1.015	28.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 13:57		1.015	0.392	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/11/23 12:47		10.15	165	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/8/23 13:57		1.015	0.0854	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 13:57		1.015	0.0565	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 13:57		1.015	30.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 13:57		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 13:57		1	13.5	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 13:57		1.015	6.30	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/8/23 13:57		1.015	25.5	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 12:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 12:35		1.015	0.0227	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 12:35		1.015	0.000146	mg/L	0.000112	0.000203	J
* Barium, Total	5/5/23 07:54	5/8/23 12:35		1.015	0.0178	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 12:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 12:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 12:35		1.015	0.00283	mg/L	0.000068	0.000203	
* Lead, Total	5/5/23 07:54	5/8/23 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 12:35		1.015	0.816	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-4

Location Code: WMWMILAP

Collected: 5/2/23 09:39

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08665

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 12:35		1.015	7.15	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 12:35		1.015	0.000539	mg/L	0.000508	0.001015	J
* Thallium, Total	5/5/23 07:54	5/8/23 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	0.000123	mg/L	0.000112	0.000203	J
* Barium, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	0.0165	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	0.00222	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	0.813	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	7.23	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 16:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/4/23 23:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:19	5/4/23 14:19		1	0.291	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	94.8	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	724	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	94.8	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 17:55	5/8/23 17:55		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-4

Location Code: WMWMILAP

Collected: 5/2/23 09:39

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08665

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:22	5/10/23 15:22		1	19.6	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:06	5/10/23 14:06		1	0.170	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 10:09	5/18/23 10:09		25	368	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/2/23 09:36	5/2/23 09:36			882.22	uS/cm			FA
pH	5/2/23 09:36	5/2/23 09:36			6.07	SU			FA
Temperature	5/2/23 09:36	5/2/23 09:36			19.44	C			FA
Turbidity	5/2/23 09:36	5/2/23 09:36			4.78	NTU			FA
Sulfide	5/2/23 09:36	5/2/23 09:36			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 09:39
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-4

Laboratory ID Number: BD08665

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD08670	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.105	0.104	0.107	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08672	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0969	0.0973	0.0912	0.0850 to 0.115	96.9	70.0 to 130	0.412	20.0
BD08670	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.0969	0.0985	0.0999	0.0850 to 0.115	96.9	70.0 to 130	1.64	20.0
BD08672	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.110	0.111	0.0991	0.0850 to 0.115	102	70.0 to 130	0.905	20.0
BD08670	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.0994	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD08672	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.120	0.120	0.0996	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08670	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.0991	0.101	0.100	0.0850 to 0.115	99.1	70.0 to 130	1.90	20.0
BD08672	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0995	0.0975	0.105	0.0850 to 0.115	99.5	70.0 to 130	2.03	20.0
BD08670	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0992	0.103	0.102	0.0850 to 0.115	99.2	70.0 to 130	3.76	20.0
BD08672	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	6.52	6.56	1.02	0.850 to 1.15	101	70.0 to 130	0.612	20.0
BD08670	Boron, Total	mg/L	0.000949	0.0650	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD08672	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0966	0.0960	0.0956	0.0850 to 0.115	96.6	70.0 to 130	0.623	20.0
BD08670	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.100	0.0985	0.101	0.0850 to 0.115	100	70.0 to 130	1.51	20.0
BD08672	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	34.1	33.5	4.95	4.25 to 5.75	96.0	70.0 to 130	1.78	20.0
BD08670	Calcium, Total	mg/L	0.000236	0.152	5.00	5.24	5.16	5.12	4.25 to 5.75	105	70.0 to 130	1.54	20.0
BD08670	Chloride	mg/L	0.0652	1.00	10.0	10.5	9.95	10.0	9.00 to 11.0	105	80.0 to 120	5.38	20.0
BD08672	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0976	0.0984	0.0967	0.0850 to 0.115	97.6	70.0 to 130	0.816	20.0
BD08670	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0993	0.0995	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.201	20.0
BD08672	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0991	0.0989	0.0980	0.0850 to 0.115	98.5	70.0 to 130	0.202	20.0
BD08670	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Fluoride	mg/L	0.0223	0.125	2.50	2.53	2.57	2.52	2.25 to 2.75	101	80.0 to 120	1.57	20.0
BD08672	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.20	1.22	0.199	0.170 to 0.230	90.0	70.0 to 130	1.65	20.0
BD08670	Iron, Total	mg/L	-0.00139	0.0176	0.2	0.209	0.205	0.204	0.170 to 0.230	104	70.0 to 130	1.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 09:39
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-4

Laboratory ID Number: BD08665

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Lead, Total	mg/L	0.000068	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD08672	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.267	0.268	0.199	0.170 to 0.230	104	70.0 to 130	0.374	20.0
BD08670	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.195	0.193	0.193	0.170 to 0.230	97.5	70.0 to 130	1.03	20.0
BD08672	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	22.4	22.1	5.01	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BD08670	Magnesium, Total	mg/L	0.00221	0.0462	5.00	5.03	4.97	4.95	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD08672	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.463	0.466	0.100	0.0850 to 0.115	96.0	70.0 to 130	0.646	20.0
BD08670	Manganese, Total	mg/L	0.000102	0.00033	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08661	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00395	0.00396	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BD08672	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.563	0.571	0.196	0.170 to 0.230	95.0	70.0 to 130	1.41	20.0
BD08670	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD08672	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	16.7	16.7	9.71	8.50 to 11.5	95.3	70.0 to 130	0.00	20.0
BD08670	Potassium, Total	mg/L	0.0190	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BD08672	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08670	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.100	0.104	0.104	0.0850 to 0.115	100	70.0 to 130	3.92	20.0
BD08672	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	8.08	8.12	1.01	0.850 to 1.15	96.0	70.0 to 130	0.494	20.0
BD08670	Silicon, Total	mg/L	-0.000181	0.0440	1.00	1.06	1.05	1.04	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08672	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	335	305	4.86	4.25 to 5.75	-160	70.0 to 130	9.38	20.0
BD08670	Sodium, Total	mg/L	0.000886	0.0880	5.00	4.78	4.72	4.73	4.25 to 5.75	95.6	70.0 to 130	1.26	20.0
BD08669	Sulfate	mg/L	0.394	2.0	160	303	307	19.1	18.0 to 22.0	101	80.0 to 120	1.31	20.0
BD08672	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.108	0.107	0.112	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Total Organic Carbon	mg/L	0.0518	1.00	10.0	10.4	10.6	10.0		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 09:39

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-4

Laboratory ID Number: BD08665

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08670	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.07	0.032	1.92	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD08677	Solids, Dissolved	mg/L	1.00	25.0			1160	52.0	40.0 to 60.0			1.71	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3S

Location Code: WMWMILAP

Collected: 5/2/23 10:50

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08666

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 13:19		1.015	0.245	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 13:19		1.015	8.78	mg/L	0.070035	0.406	
* Iron, Total	5/5/23 07:54	5/11/23 13:19		1.015	0.0528	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:19		1.015	0.274	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 13:19		1.015	1.50	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:19		1.015	0.0661	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:19		1	9.97	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:19		1.015	4.66	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 16:48		10.15	260	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:00		1.015	0.241	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/8/23 14:00		1.015	4.07	mg/L	0.070035	0.406	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:00		1.015	0.0105	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:00		1.015	0.222	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 14:00		1.015	1.45	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:00		1.015	0.0627	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:00		1	9.29	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:00		1.015	4.34	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 12:50		10.15	245	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 12:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 12:38		1.015	0.0410	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 12:38		1.015	0.00114	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 12:38		1.015	0.149	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 12:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 12:38		1.015	0.000885	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 12:38		1.015	0.000120	mg/L	0.000068	0.000203	J
* Lead, Total	5/5/23 07:54	5/8/23 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 12:38		1.015	0.00733	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3S

Location Code: WMWMILAP

Collected: 5/2/23 10:50

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08666

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 12:38		1.015	3.27	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 12:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	0.0166	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	0.000823	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	0.127	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	0.000304	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	0.00437	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	2.80	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 16:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/4/23 23:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:21	5/4/23 14:21		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	237	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	638	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	211	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	25.5	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 18:10	5/8/23 18:10		1	2.24	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3S

Location Code: WMWMILAP

Collected: 5/2/23 10:50

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08666

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:35	5/10/23 15:35		8	84.3	mg/L	4.00	16	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:07	5/10/23 14:07		1	0.311	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 10:10	5/18/23 10:10		8	161	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/2/23 10:47	5/2/23 10:47			1033.25	uS/cm			FA
pH	5/2/23 10:47	5/2/23 10:47			9.28	SU			FA
Temperature	5/2/23 10:47	5/2/23 10:47			19.37	C			FA
Turbidity	5/2/23 10:47	5/2/23 10:47			8.34	NTU			FA
Sulfide	5/2/23 10:47	5/2/23 10:47			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 10:50
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: BD08666

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD08670	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.105	0.104	0.107	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08672	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0969	0.0973	0.0912	0.0850 to 0.115	96.9	70.0 to 130	0.412	20.0
BD08670	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.0969	0.0985	0.0999	0.0850 to 0.115	96.9	70.0 to 130	1.64	20.0
BD08672	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.110	0.111	0.0991	0.0850 to 0.115	102	70.0 to 130	0.905	20.0
BD08670	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.0994	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD08672	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.120	0.120	0.0996	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08670	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.0991	0.101	0.100	0.0850 to 0.115	99.1	70.0 to 130	1.90	20.0
BD08672	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0995	0.0975	0.105	0.0850 to 0.115	99.5	70.0 to 130	2.03	20.0
BD08670	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0992	0.103	0.102	0.0850 to 0.115	99.2	70.0 to 130	3.76	20.0
BD08672	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	6.52	6.56	1.02	0.850 to 1.15	101	70.0 to 130	0.612	20.0
BD08670	Boron, Total	mg/L	0.000949	0.0650	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD08672	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0966	0.0960	0.0956	0.0850 to 0.115	96.6	70.0 to 130	0.623	20.0
BD08670	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.100	0.0985	0.101	0.0850 to 0.115	100	70.0 to 130	1.51	20.0
BD08672	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	34.1	33.5	4.95	4.25 to 5.75	96.0	70.0 to 130	1.78	20.0
BD08670	Calcium, Total	mg/L	0.000236	0.152	5.00	5.24	5.16	5.12	4.25 to 5.75	105	70.0 to 130	1.54	20.0
BD08670	Chloride	mg/L	0.0652	1.00	10.0	10.5	9.95	10.0	9.00 to 11.0	105	80.0 to 120	5.38	20.0
BD08672	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0976	0.0984	0.0967	0.0850 to 0.115	97.6	70.0 to 130	0.816	20.0
BD08670	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0993	0.0995	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.201	20.0
BD08672	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0991	0.0989	0.0980	0.0850 to 0.115	98.5	70.0 to 130	0.202	20.0
BD08670	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Fluoride	mg/L	0.0223	0.125	2.50	2.53	2.57	2.52	2.25 to 2.75	101	80.0 to 120	1.57	20.0
BD08672	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.20	1.22	0.199	0.170 to 0.230	90.0	70.0 to 130	1.65	20.0
BD08670	Iron, Total	mg/L	-0.00139	0.0176	0.2	0.209	0.205	0.204	0.170 to 0.230	104	70.0 to 130	1.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 10:50
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: BD08666

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Lead, Total	mg/L	0.000068	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD08672	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.267	0.268	0.199	0.170 to 0.230	104	70.0 to 130	0.374	20.0
BD08670	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.195	0.193	0.193	0.170 to 0.230	97.5	70.0 to 130	1.03	20.0
BD08672	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	22.4	22.1	5.01	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BD08670	Magnesium, Total	mg/L	0.00221	0.0462	5.00	5.03	4.97	4.95	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD08672	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.463	0.466	0.100	0.0850 to 0.115	96.0	70.0 to 130	0.646	20.0
BD08670	Manganese, Total	mg/L	0.000102	0.00033	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08661	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00395	0.00396	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BD08672	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.563	0.571	0.196	0.170 to 0.230	95.0	70.0 to 130	1.41	20.0
BD08670	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD08672	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	16.7	16.7	9.71	8.50 to 11.5	95.3	70.0 to 130	0.00	20.0
BD08670	Potassium, Total	mg/L	0.0190	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BD08672	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08670	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.100	0.104	0.104	0.0850 to 0.115	100	70.0 to 130	3.92	20.0
BD08672	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	8.08	8.12	1.01	0.850 to 1.15	96.0	70.0 to 130	0.494	20.0
BD08670	Silicon, Total	mg/L	-0.000181	0.0440	1.00	1.06	1.05	1.04	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08672	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	335	305	4.86	4.25 to 5.75	-160	70.0 to 130	9.38	20.0
BD08670	Sodium, Total	mg/L	0.000886	0.0880	5.00	4.78	4.72	4.73	4.25 to 5.75	95.6	70.0 to 130	1.26	20.0
BD08669	Sulfate	mg/L	0.394	2.0	160	303	307	19.1	18.0 to 22.0	101	80.0 to 120	1.31	20.0
BD08672	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.108	0.107	0.112	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Total Organic Carbon	mg/L	0.0518	1.00	10.0	10.4	10.6	10.0		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 10:50

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: BD08666

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08670	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.07	0.032	1.92	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD08677	Solids, Dissolved	mg/L	1.00	25.0			1160	52.0	40.0 to 60.0			1.71	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3D

Location Code: WMWMILAP

Collected: 5/2/23 11:57

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08667

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 13:22		1.015	0.324	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 16:51		10.15	94.5	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 13:22		1.015	2.80	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:22		1.015	0.104	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 13:22		1.015	22.9	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:22		1.015	0.0293	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:22		1	12.3	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:22		1.015	5.76	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 16:51		10.15	76.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:04		1.015	0.324	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/11/23 12:54		10.15	104	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:04		1.015	1.93	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:04		1.015	0.0899	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 14:04		1.015	23.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:04		1.015	0.0277	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:04		1	11.9	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:04		1.015	5.54	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 12:54		10.15	78.4	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 12:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 12:42		1.015	0.0136	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 12:42		1.015	0.0126	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 12:42		1.015	0.0292	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 12:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 12:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 12:42		1.015	0.00405	mg/L	0.000068	0.000203	
* Lead, Total	5/5/23 07:54	5/8/23 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 12:42		1.015	1.09	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3D

Location Code: WMWMILAP
Collected: 5/2/23 11:57
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08667

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 12:42		1.015	5.66	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 12:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	0.00891	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	0.0260	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	0.00298	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	0.989	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	5.34	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 16:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/4/23 23:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:23	5/4/23 14:23		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	197	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	630	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	197	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 18:26	5/8/23 18:26		1	1.67	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3D

Location Code: WMWMILAP

Collected: 5/2/23 11:57

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08667

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:25	5/10/23 15:25		1	6.52	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:09	5/10/23 14:09		1	0.348	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 10:11	5/18/23 10:11		16	264	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/2/23 11:54	5/2/23 11:54			851.31	uS/cm			FA
pH	5/2/23 11:54	5/2/23 11:54			6.82	SU			FA
Temperature	5/2/23 11:54	5/2/23 11:54			20.11	C			FA
Turbidity	5/2/23 11:54	5/2/23 11:54			7.86	NTU			FA
Sulfide	5/2/23 11:54	5/2/23 11:54			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 11:57

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: BD08667

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD08670	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.105	0.104	0.107	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08672	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0969	0.0973	0.0912	0.0850 to 0.115	96.9	70.0 to 130	0.412	20.0
BD08670	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.0969	0.0985	0.0999	0.0850 to 0.115	96.9	70.0 to 130	1.64	20.0
BD08672	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.110	0.111	0.0991	0.0850 to 0.115	102	70.0 to 130	0.905	20.0
BD08670	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.0994	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD08672	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.120	0.120	0.0996	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08670	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.0991	0.101	0.100	0.0850 to 0.115	99.1	70.0 to 130	1.90	20.0
BD08672	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0995	0.0975	0.105	0.0850 to 0.115	99.5	70.0 to 130	2.03	20.0
BD08670	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0992	0.103	0.102	0.0850 to 0.115	99.2	70.0 to 130	3.76	20.0
BD08672	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	6.52	6.56	1.02	0.850 to 1.15	101	70.0 to 130	0.612	20.0
BD08670	Boron, Total	mg/L	0.000949	0.0650	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD08672	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0966	0.0960	0.0956	0.0850 to 0.115	96.6	70.0 to 130	0.623	20.0
BD08670	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.100	0.0985	0.101	0.0850 to 0.115	100	70.0 to 130	1.51	20.0
BD08672	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	34.1	33.5	4.95	4.25 to 5.75	96.0	70.0 to 130	1.78	20.0
BD08670	Calcium, Total	mg/L	0.000236	0.152	5.00	5.24	5.16	5.12	4.25 to 5.75	105	70.0 to 130	1.54	20.0
BD08670	Chloride	mg/L	0.0652	1.00	10.0	10.5	9.95	10.0	9.00 to 11.0	105	80.0 to 120	5.38	20.0
BD08672	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0976	0.0984	0.0967	0.0850 to 0.115	97.6	70.0 to 130	0.816	20.0
BD08670	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0993	0.0995	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.201	20.0
BD08672	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0991	0.0989	0.0980	0.0850 to 0.115	98.5	70.0 to 130	0.202	20.0
BD08670	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Fluoride	mg/L	0.0223	0.125	2.50	2.53	2.57	2.52	2.25 to 2.75	101	80.0 to 120	1.57	20.0
BD08672	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.20	1.22	0.199	0.170 to 0.230	90.0	70.0 to 130	1.65	20.0
BD08670	Iron, Total	mg/L	-0.00139	0.0176	0.2	0.209	0.205	0.204	0.170 to 0.230	104	70.0 to 130	1.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 11:57

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: BD08667

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Lead, Total	mg/L	0.000068	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD08672	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.267	0.268	0.199	0.170 to 0.230	104	70.0 to 130	0.374	20.0
BD08670	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.195	0.193	0.193	0.170 to 0.230	97.5	70.0 to 130	1.03	20.0
BD08672	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	22.4	22.1	5.01	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BD08670	Magnesium, Total	mg/L	0.00221	0.0462	5.00	5.03	4.97	4.95	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD08672	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.463	0.466	0.100	0.0850 to 0.115	96.0	70.0 to 130	0.646	20.0
BD08670	Manganese, Total	mg/L	0.000102	0.00033	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08661	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00395	0.00396	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BD08672	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.563	0.571	0.196	0.170 to 0.230	95.0	70.0 to 130	1.41	20.0
BD08670	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD08672	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	16.7	16.7	9.71	8.50 to 11.5	95.3	70.0 to 130	0.00	20.0
BD08670	Potassium, Total	mg/L	0.0190	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BD08672	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08670	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.100	0.104	0.104	0.0850 to 0.115	100	70.0 to 130	3.92	20.0
BD08672	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	8.08	8.12	1.01	0.850 to 1.15	96.0	70.0 to 130	0.494	20.0
BD08670	Silicon, Total	mg/L	-0.000181	0.0440	1.00	1.06	1.05	1.04	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08672	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	335	305	4.86	4.25 to 5.75	-160	70.0 to 130	9.38	20.0
BD08670	Sodium, Total	mg/L	0.000886	0.0880	5.00	4.78	4.72	4.73	4.25 to 5.75	95.6	70.0 to 130	1.26	20.0
BD08669	Sulfate	mg/L	0.394	2.0	160	303	307	19.1	18.0 to 22.0	101	80.0 to 120	1.31	20.0
BD08672	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.108	0.107	0.112	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Total Organic Carbon	mg/L	0.0518	1.00	10.0	10.4	10.6	10.0		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 11:57

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: BD08667

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08670	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.07	0.032	1.92	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD08677	Solids, Dissolved	mg/L	1.00	25.0			1160	52.0	40.0 to 60.0			1.71	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-14R

Location Code: WMWMILAP

Collected: 5/2/23 13:24

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08668

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 13:26		1.015	0.0761	mg/L	0.030000	0.1015	J
* Calcium, Total	5/5/23 07:54	5/15/23 13:34		10.15	47.5	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 13:26		1.015	3.53	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:26		1.015	0.0206	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 13:26		1.015	16.2	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:26		1	32.7	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:26		1.015	15.3	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 13:26		1.015	12.1	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:07		1.015	0.0743	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/4/23 13:04	5/8/23 14:07		1.015	39.1	mg/L	0.070035	0.406	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:07		1.015	3.33	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:07		1.015	0.0200	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 14:07		1.015	16.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:07		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:07		1	31.5	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:07		1.015	14.7	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/8/23 14:07		1.015	11.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 12:45		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 12:45		1.015	0.00935	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 12:45		1.015	0.000139	mg/L	0.000112	0.000203	J
* Barium, Total	5/5/23 07:54	5/8/23 12:45		1.015	0.101	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 12:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 12:45		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 12:45		1.015	0.183	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-14R

Location Code: WMWMILAP

Collected: 5/2/23 13:24

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08668

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 12:45		1.015	1.19	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 12:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	0.000190	mg/L	0.000112	0.000203	J
* Barium, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	0.102	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	0.173	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	1.11	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 16:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/4/23 23:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:25	5/4/23 14:25		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	129	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	242	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	129	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 18:43	5/8/23 18:43		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-14R

Location Code: WMWMILAP

Collected: 5/2/23 13:24

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08668

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:26	5/10/23 15:26		1	8.39	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:10	5/10/23 14:10		1	0.167	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 10:12	5/18/23 10:12		2	49.4	mg/L	1.2	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/2/23 13:21	5/2/23 13:21			313.68	uS/cm			FA
pH	5/2/23 13:21	5/2/23 13:21			6.40	SU			FA
Temperature	5/2/23 13:21	5/2/23 13:21			19.98	C			FA
Turbidity	5/2/23 13:21	5/2/23 13:21			3.3	NTU			FA
Sulfide	5/2/23 13:21	5/2/23 13:21			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 13:24
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-14R

Laboratory ID Number: BD08668

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD08670	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.105	0.104	0.107	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08672	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0969	0.0973	0.0912	0.0850 to 0.115	96.9	70.0 to 130	0.412	20.0
BD08670	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.0969	0.0985	0.0999	0.0850 to 0.115	96.9	70.0 to 130	1.64	20.0
BD08672	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.110	0.111	0.0991	0.0850 to 0.115	102	70.0 to 130	0.905	20.0
BD08670	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.0994	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD08672	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.120	0.120	0.0996	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08670	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.0991	0.101	0.100	0.0850 to 0.115	99.1	70.0 to 130	1.90	20.0
BD08672	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0995	0.0975	0.105	0.0850 to 0.115	99.5	70.0 to 130	2.03	20.0
BD08670	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0992	0.103	0.102	0.0850 to 0.115	99.2	70.0 to 130	3.76	20.0
BD08672	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	6.52	6.56	1.02	0.850 to 1.15	101	70.0 to 130	0.612	20.0
BD08670	Boron, Total	mg/L	0.000949	0.0650	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD08672	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0966	0.0960	0.0956	0.0850 to 0.115	96.6	70.0 to 130	0.623	20.0
BD08670	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.100	0.0985	0.101	0.0850 to 0.115	100	70.0 to 130	1.51	20.0
BD08672	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	34.1	33.5	4.95	4.25 to 5.75	96.0	70.0 to 130	1.78	20.0
BD08670	Calcium, Total	mg/L	0.000236	0.152	5.00	5.24	5.16	5.12	4.25 to 5.75	105	70.0 to 130	1.54	20.0
BD08670	Chloride	mg/L	0.0652	1.00	10.0	10.5	9.95	10.0	9.00 to 11.0	105	80.0 to 120	5.38	20.0
BD08672	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0976	0.0984	0.0967	0.0850 to 0.115	97.6	70.0 to 130	0.816	20.0
BD08670	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0993	0.0995	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.201	20.0
BD08672	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0991	0.0989	0.0980	0.0850 to 0.115	98.5	70.0 to 130	0.202	20.0
BD08670	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Fluoride	mg/L	0.0223	0.125	2.50	2.53	2.57	2.52	2.25 to 2.75	101	80.0 to 120	1.57	20.0
BD08672	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.20	1.22	0.199	0.170 to 0.230	90.0	70.0 to 130	1.65	20.0
BD08670	Iron, Total	mg/L	-0.00139	0.0176	0.2	0.209	0.205	0.204	0.170 to 0.230	104	70.0 to 130	1.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 13:24
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-14R

Laboratory ID Number: BD08668

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Lead, Total	mg/L	0.000068	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD08672	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.267	0.268	0.199	0.170 to 0.230	104	70.0 to 130	0.374	20.0
BD08670	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.195	0.193	0.193	0.170 to 0.230	97.5	70.0 to 130	1.03	20.0
BD08672	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	22.4	22.1	5.01	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BD08670	Magnesium, Total	mg/L	0.00221	0.0462	5.00	5.03	4.97	4.95	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD08672	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.463	0.466	0.100	0.0850 to 0.115	96.0	70.0 to 130	0.646	20.0
BD08670	Manganese, Total	mg/L	0.000102	0.00033	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08661	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00395	0.00396	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BD08672	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.563	0.571	0.196	0.170 to 0.230	95.0	70.0 to 130	1.41	20.0
BD08670	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD08672	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	16.7	16.7	9.71	8.50 to 11.5	95.3	70.0 to 130	0.00	20.0
BD08670	Potassium, Total	mg/L	0.0190	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BD08672	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08670	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.100	0.104	0.104	0.0850 to 0.115	100	70.0 to 130	3.92	20.0
BD08672	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	8.08	8.12	1.01	0.850 to 1.15	96.0	70.0 to 130	0.494	20.0
BD08670	Silicon, Total	mg/L	-0.000181	0.0440	1.00	1.06	1.05	1.04	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08672	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	335	305	4.86	4.25 to 5.75	-160	70.0 to 130	9.38	20.0
BD08670	Sodium, Total	mg/L	0.000886	0.0880	5.00	4.78	4.72	4.73	4.25 to 5.75	95.6	70.0 to 130	1.26	20.0
BD08669	Sulfate	mg/L	0.394	2.0	160	303	307	19.1	18.0 to 22.0	101	80.0 to 120	1.31	20.0
BD08672	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.108	0.107	0.112	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Total Organic Carbon	mg/L	0.0518	1.00	10.0	10.4	10.6	10.0		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 13:24

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-14R

Laboratory ID Number: BD08668

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08670	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.07	0.032	1.92	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD08677	Solids, Dissolved	mg/L	1.00	25.0			1160	52.0	40.0 to 60.0			1.71	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-21

Location Code: WMWMILAP

Collected: 5/2/23 15:03

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08669

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 13:29		1.015	0.0986	mg/L	0.030000	0.1015	J
* Calcium, Total	5/5/23 07:54	5/11/23 16:55		10.15	58.0	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 13:29		1.015	0.196	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:29		1.015	0.0448	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 13:29		1.015	15.4	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:29		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:29		1	18.6	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:29		1.015	8.69	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 16:55		10.15	124	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:10		1.015	0.0947	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/4/23 13:04	5/11/23 12:57		10.15	57.2	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:10		1.015	0.226	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:10		1.015	0.0453	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 14:10		1.015	15.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:10		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:10		1	18.0	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:10		1.015	8.40	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 12:57		10.15	108	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 12:49		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 12:49		1.015	0.0143	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 12:49		1.015	0.00323	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 12:49		1.015	0.189	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 12:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 12:49		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 12:49		1.015	0.000109	mg/L	0.000068	0.000203	J
* Lead, Total	5/5/23 07:54	5/8/23 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 12:49		1.015	0.0767	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-21

Location Code: WMWMILAP
Collected: 5/2/23 15:03
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08669

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 12:49		1.015	4.36	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 12:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	0.00184	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	0.188	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	0.0740	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	3.69	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	0.00586	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/4/23 13:04	5/4/23 16:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/4/23 23:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:27	5/4/23 14:27		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	270	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	552	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	267	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	2.63	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 19:02	5/8/23 19:02		1	1.09	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-21

Location Code: WMWMILAP

Collected: 5/2/23 15:03

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08669

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:37	5/10/23 15:37		2	21.0	mg/L	1.00	4	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:11	5/10/23 14:11		1	0.223	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 10:30	5/18/23 10:30		8	141	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/2/23 15:00	5/2/23 15:00			867.80	uS/cm			FA
pH	5/2/23 15:00	5/2/23 15:00			7.65	SU			FA
Temperature	5/2/23 15:00	5/2/23 15:00			23.19	C			FA
Turbidity	5/2/23 15:00	5/2/23 15:00			3.85	NTU			FA
Sulfide	5/2/23 15:00	5/2/23 15:00			1.0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 15:03
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-21

Laboratory ID Number: BD08669

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD08670	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.105	0.104	0.107	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08672	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0969	0.0973	0.0912	0.0850 to 0.115	96.9	70.0 to 130	0.412	20.0
BD08670	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.0969	0.0985	0.0999	0.0850 to 0.115	96.9	70.0 to 130	1.64	20.0
BD08672	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.110	0.111	0.0991	0.0850 to 0.115	102	70.0 to 130	0.905	20.0
BD08670	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.0994	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD08672	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.120	0.120	0.0996	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08670	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.0991	0.101	0.100	0.0850 to 0.115	99.1	70.0 to 130	1.90	20.0
BD08672	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0995	0.0975	0.105	0.0850 to 0.115	99.5	70.0 to 130	2.03	20.0
BD08670	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0992	0.103	0.102	0.0850 to 0.115	99.2	70.0 to 130	3.76	20.0
BD08672	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	6.52	6.56	1.02	0.850 to 1.15	101	70.0 to 130	0.612	20.0
BD08670	Boron, Total	mg/L	0.000949	0.0650	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD08672	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0966	0.0960	0.0956	0.0850 to 0.115	96.6	70.0 to 130	0.623	20.0
BD08670	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.100	0.0985	0.101	0.0850 to 0.115	100	70.0 to 130	1.51	20.0
BD08672	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	34.1	33.5	4.95	4.25 to 5.75	96.0	70.0 to 130	1.78	20.0
BD08670	Calcium, Total	mg/L	0.000236	0.152	5.00	5.24	5.16	5.12	4.25 to 5.75	105	70.0 to 130	1.54	20.0
BD08670	Chloride	mg/L	0.0652	1.00	10.0	10.5	9.95	10.0	9.00 to 11.0	105	80.0 to 120	5.38	20.0
BD08672	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0976	0.0984	0.0967	0.0850 to 0.115	97.6	70.0 to 130	0.816	20.0
BD08670	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0993	0.0995	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.201	20.0
BD08672	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0991	0.0989	0.0980	0.0850 to 0.115	98.5	70.0 to 130	0.202	20.0
BD08670	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Fluoride	mg/L	0.0223	0.125	2.50	2.53	2.57	2.52	2.25 to 2.75	101	80.0 to 120	1.57	20.0
BD08672	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.20	1.22	0.199	0.170 to 0.230	90.0	70.0 to 130	1.65	20.0
BD08670	Iron, Total	mg/L	-0.00139	0.0176	0.2	0.209	0.205	0.204	0.170 to 0.230	104	70.0 to 130	1.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 15:03

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-21

Laboratory ID Number: BD08669

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Lead, Total	mg/L	0.000068	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD08672	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.267	0.268	0.199	0.170 to 0.230	104	70.0 to 130	0.374	20.0
BD08670	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.195	0.193	0.193	0.170 to 0.230	97.5	70.0 to 130	1.03	20.0
BD08672	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	22.4	22.1	5.01	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BD08670	Magnesium, Total	mg/L	0.00221	0.0462	5.00	5.03	4.97	4.95	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD08672	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.463	0.466	0.100	0.0850 to 0.115	96.0	70.0 to 130	0.646	20.0
BD08670	Manganese, Total	mg/L	0.000102	0.00033	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08661	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00395	0.00396	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BD08672	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.563	0.571	0.196	0.170 to 0.230	95.0	70.0 to 130	1.41	20.0
BD08670	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD08672	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	16.7	16.7	9.71	8.50 to 11.5	95.3	70.0 to 130	0.00	20.0
BD08670	Potassium, Total	mg/L	0.0190	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BD08672	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08670	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.100	0.104	0.104	0.0850 to 0.115	100	70.0 to 130	3.92	20.0
BD08672	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	8.08	8.12	1.01	0.850 to 1.15	96.0	70.0 to 130	0.494	20.0
BD08670	Silicon, Total	mg/L	-0.000181	0.0440	1.00	1.06	1.05	1.04	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08672	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	335	305	4.86	4.25 to 5.75	-160	70.0 to 130	9.38	20.0
BD08670	Sodium, Total	mg/L	0.000886	0.0880	5.00	4.78	4.72	4.73	4.25 to 5.75	95.6	70.0 to 130	1.26	20.0
BD08669	Sulfate	mg/L	0.394	2.0	160	303	307	19.1	18.0 to 22.0	101	80.0 to 120	1.31	20.0
BD08672	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.108	0.107	0.112	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Total Organic Carbon	mg/L	0.0518	1.00	10.0	10.4	10.6	10.0		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 15:03

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-21

Laboratory ID Number: BD08669

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08670	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.07	0.032	1.92	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD08677	Solids, Dissolved	mg/L	1.00	25.0			1160	52.0	40.0 to 60.0			1.71	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-5

Location Code: WMWMILAPFB
Collected: 5/2/23 16:00
Customer ID:
Submittal Date: 5/4/23 10:10

Laboratory ID Number: BD08670

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 13:32		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/5/23 07:54	5/11/23 13:32		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/5/23 07:54	5/11/23 13:32		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/5/23 07:54	5/11/23 13:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/23 07:54	5/11/23 13:32		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:32		1	Not Detected	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:32		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/5/23 07:54	5/11/23 13:32		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 12:52		1.015	0.000307	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ELH						
* Mercury, Total by CVAA	5/4/23 18:23	5/4/23 23:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	5/4/23 14:28	5/4/23 14:28		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-5

Location Code: WMWMILAPFB

Collected: 5/2/23 16:00

Customer ID:

Submittal Date: 5/4/23 10:10

Laboratory ID Number: BD08670

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 19:18	5/8/23 19:18		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:28	5/10/23 15:28		1	Not Detected	mg/L	0.50	2	U
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:12	5/10/23 14:12		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 11:12	5/18/23 11:12		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 5/2/23 16:00

Customer ID:

Delivery Date: 5/4/23 10:10

Description: Miller Ash Pond Field Blank-5

Laboratory ID Number: BD08670

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD08670	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.105	0.104	0.107	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08670	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.0969	0.0985	0.0999	0.0850 to 0.115	96.9	70.0 to 130	1.64	20.0
BD08670	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.0994	0.100	0.104	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD08670	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.0991	0.101	0.100	0.0850 to 0.115	99.1	70.0 to 130	1.90	20.0
BD08670	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0992	0.103	0.102	0.0850 to 0.115	99.2	70.0 to 130	3.76	20.0
BD08670	Boron, Total	mg/L	0.000949	0.0650	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD08670	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.100	0.0985	0.101	0.0850 to 0.115	100	70.0 to 130	1.51	20.0
BD08670	Calcium, Total	mg/L	0.000236	0.152	5.00	5.24	5.16	5.12	4.25 to 5.75	105	70.0 to 130	1.54	20.0
BD08670	Chloride	mg/L	0.0652	1.00	10.0	10.5	9.95	10.0	9.00 to 11.0	105	80.0 to 120	5.38	20.0
BD08670	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0993	0.0995	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.201	20.0
BD08670	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.108	0.107	0.111	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Fluoride	mg/L	0.0223	0.125	2.50	2.53	2.57	2.52	2.25 to 2.75	101	80.0 to 120	1.57	20.0
BD08670	Iron, Total	mg/L	-0.00139	0.0176	0.2	0.209	0.205	0.204	0.170 to 0.230	104	70.0 to 130	1.93	20.0
BD08670	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD08670	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.195	0.193	0.193	0.170 to 0.230	97.5	70.0 to 130	1.03	20.0
BD08670	Magnesium, Total	mg/L	0.00221	0.0462	5.00	5.03	4.97	4.95	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD08670	Manganese, Total	mg/L	0.000102	0.00033	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08661	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00395	0.00396	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	0.253	20.0
BD08670	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD08670	Potassium, Total	mg/L	0.0190	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BD08670	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.100	0.104	0.104	0.0850 to 0.115	100	70.0 to 130	3.92	20.0
BD08670	Silicon, Total	mg/L	-0.000181	0.0440	1.00	1.06	1.05	1.04	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD08670	Sodium, Total	mg/L	0.000886	0.0880	5.00	4.78	4.72	4.73	4.25 to 5.75	95.6	70.0 to 130	1.26	20.0
BD08679	Sulfate	mg/L	0.231	2.0	160	267	277	19.1	18.0 to 22.0	97.5	80.0 to 120	3.68	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 5/2/23 16:00
Customer ID:
Delivery Date: 5/4/23 10:10

Description: Miller Ash Pond Field Blank-5

Laboratory ID Number: BD08670

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD08670	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.108	0.107	0.112	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD08670	Total Organic Carbon	mg/L	0.0518	1.00	10.0	10.4	10.6	10.0		104	80.0 to 120	1.90	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 5/2/23 16:00

Customer ID:

Delivery Date: 5/4/23 10:10

Description: Miller Ash Pond Field Blank-5

Laboratory ID Number: BD08670

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08670	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.07	0.032	1.92	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD08677	Solids, Dissolved	mg/L	1.00	25.0			1160	52.0	40.0 to 60.0			1.71	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-10

Location Code: WMWMILAP
Collected: 5/3/23 08:17
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08671

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 13:49		1.015	6.84	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 16:58		10.15	118	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 13:49		1.015	2.32	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:49		1.015	0.354	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 16:58		10.15	59.6	mg/L	0.21315	4.06	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:49		1.015	0.665	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:49		1	17.4	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:49		1.015	8.13	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 18:11		101.5	411	mg/L	4.060	40.6	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:13		1.015	7.16	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/11/23 13:00		10.15	136	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:13		1.015	2.07	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:13		1.015	0.266	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/11/23 13:00		10.15	69.1	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:13		1.015	0.659	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:13		1	16.2	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:13		1.015	7.59	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 14:19		101.5	426	mg/L	4.060	40.6	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 13:14		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 13:14		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 13:14		1.015	0.0241	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 13:14		1.015	0.0162	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 13:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 13:14		1.015	0.000411	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 13:14		1.015	0.00107	mg/L	0.000068	0.000203	
* Lead, Total	5/5/23 07:54	5/8/23 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 13:14		1.015	0.849	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-10

Location Code: WMWMILAP

Collected: 5/3/23 08:17

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08671

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 13:14		1.015	11.4	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 13:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	0.0248	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	0.0151	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	0.000111	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	0.000857	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	0.822	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	11.4	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	0.000622	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	5/4/23 13:04	5/4/23 16:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 00:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:38	5/4/23 14:38		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/15/23 09:44	5/15/23 12:53		1	154	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	2110	mg/L		147.1	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	154	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 20:30	5/8/23 20:30		1	1.20	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-10

Location Code: WMWMILAP

Collected: 5/3/23 08:17

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08671

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:56	5/10/23 15:56		1	7.08	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:24	5/10/23 14:24		1	0.902	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 11:14	5/18/23 11:14		50	1250	mg/L	30.0	100	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/3/23 08:14	5/3/23 08:14			2561.46	uS/cm			FA
pH	5/3/23 08:14	5/3/23 08:14			7.15	SU			FA
Temperature	5/3/23 08:14	5/3/23 08:14			15.77	C			FA
Turbidity	5/3/23 08:14	5/3/23 08:14			4.7	NTU			FA
Sulfide	5/3/23 08:14	5/3/23 08:14			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 08:17
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-10

Laboratory ID Number: BD08671

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD08680	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.124	0.122	0.107	0.0850 to 0.115	102	70.0 to 130	1.63	20.0
BD08672	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0969	0.0973	0.0912	0.0850 to 0.115	96.9	70.0 to 130	0.412	20.0
BD08680	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.104	0.104	0.0999	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08672	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.110	0.111	0.0991	0.0850 to 0.115	102	70.0 to 130	0.905	20.0
BD08680	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.105	0.106	0.104	0.0850 to 0.115	99.9	70.0 to 130	0.948	20.0
BD08672	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.120	0.120	0.0996	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08680	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.121	0.122	0.100	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BD08672	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0995	0.0975	0.105	0.0850 to 0.115	99.5	70.0 to 130	2.03	20.0
BD08680	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0990	0.104	0.102	0.0850 to 0.115	99.0	70.0 to 130	4.93	20.0
BD08672	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	6.52	6.56	1.02	0.850 to 1.15	101	70.0 to 130	0.612	20.0
BD08680	Boron, Total	mg/L	0.000949	0.0650	1.00	1.26	1.25	1.01	0.850 to 1.15	104	70.0 to 130	0.797	20.0
BD08672	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0966	0.0960	0.0956	0.0850 to 0.115	96.6	70.0 to 130	0.623	20.0
BD08680	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.0992	0.0980	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.22	20.0
BD08672	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	34.1	33.5	4.95	4.25 to 5.75	96.0	70.0 to 130	1.78	20.0
BD08680	Calcium, Total	mg/L	0.000236	0.152	5.00	277	269	5.12	4.25 to 5.75	520	70.0 to 130	2.93	20.0
BD08680	Chloride	mg/L	-0.00814	1.00	10.0	14.8	14.6	9.81	9.00 to 11.0	99.5	80.0 to 120	1.36	20.0
BD08672	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0976	0.0984	0.0967	0.0850 to 0.115	97.6	70.0 to 130	0.816	20.0
BD08680	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0992	0.0984	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.810	20.0
BD08672	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0991	0.0989	0.0980	0.0850 to 0.115	98.5	70.0 to 130	0.202	20.0
BD08680	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.162	0.162	0.111	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Fluoride	mg/L	0.0384	0.125	2.50	2.84	2.82	2.54	2.25 to 2.75	101	80.0 to 120	0.707	20.0
BD08672	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.20	1.22	0.199	0.170 to 0.230	90.0	70.0 to 130	1.65	20.0
BD08680	Iron, Total	mg/L	-0.00139	0.0176	0.2	195	195	0.204	0.170 to 0.230	-2000	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 08:17
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-10

Laboratory ID Number: BD08671

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Lead, Dissolved	mg/L	0.0000169	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08680	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.102	0.0991	0.106	0.0850 to 0.115	102	70.0 to 130	2.88	20.0
BD08672	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.267	0.268	0.199	0.170 to 0.230	104	70.0 to 130	0.374	20.0
BD08680	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.543	0.540	0.193	0.170 to 0.230	135	70.0 to 130	0.554	20.0
BD08672	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	22.4	22.1	5.01	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BD08680	Magnesium, Total	mg/L	0.00221	0.0462	5.00	165	161	4.95	4.25 to 5.75	320	70.0 to 130	2.45	20.0
BD08672	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.463	0.466	0.100	0.0850 to 0.115	96.0	70.0 to 130	0.646	20.0
BD08680	Manganese, Total	mg/L	0.000102	0.00033	0.100	3.66	3.62	0.105	0.0850 to 0.115	150	70.0 to 130	1.10	20.0
BD08671	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00352	0.00394	0.00394	0.00340 to 0.00460	88.0	70.0 to 130	11.3	20.0
BD08672	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.563	0.571	0.196	0.170 to 0.230	95.0	70.0 to 130	1.41	20.0
BD08680	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.199	0.202	0.170 to 0.230	101	70.0 to 130	1.50	20.0
BD08672	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	16.7	16.7	9.71	8.50 to 11.5	95.3	70.0 to 130	0.00	20.0
BD08680	Potassium, Total	mg/L	0.0190	0.367	10.0	14.7	14.5	10.4	8.50 to 11.5	103	70.0 to 130	1.37	20.0
BD08672	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08680	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.0978	0.0974	0.104	0.0850 to 0.115	97.8	70.0 to 130	0.410	20.0
BD08672	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	8.08	8.12	1.01	0.850 to 1.15	96.0	70.0 to 130	0.494	20.0
BD08680	Silicon, Total	mg/L	-0.000181	0.0440	1.00	11.7	11.7	1.04	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD08672	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	335	305	4.86	4.25 to 5.75	-160	70.0 to 130	9.38	20.0
BD08680	Sodium, Total	mg/L	0.000886	0.0880	5.00	133	133	4.73	4.25 to 5.75	220	70.0 to 130	0.00	20.0
BD08679	Sulfate	mg/L	0.231	2.0	160	267	277	19.1	18.0 to 22.0	97.5	80.0 to 120	3.68	20.0
BD08672	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08680	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.106	0.103	0.112	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD08680	Total Organic Carbon	mg/L	0.0698	1.00	10.0	11.4	11.6	10.0		99.8	80.0 to 120	1.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/3/23 08:17

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-10

Laboratory ID Number: BD08671

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08685	Alkalinity	mg CaCO3/L					232	52.7	45.0 to 55.0			0.432	10.0
BD08680	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.68	0.413	2.04	1.80 to 2.20	64.6	90.0 to 110	6.50	15.0
BD08677	Solids, Dissolved	mg/L	1.00	25.0			1160	52.0	40.0 to 60.0			1.71	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-12

Location Code: WMWMILAP

Collected: 5/3/23 10:01

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08672

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 13:53		1.015	5.38	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 13:53		1.015	30.3	mg/L	0.070035	0.406	
* Iron, Total	5/5/23 07:54	5/11/23 13:53		1.015	0.967	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:53		1.015	0.0770	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 13:53		1.015	16.4	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:53		1.015	0.383	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:53		1	16.0	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:53		1.015	7.46	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 17:01		10.15	312	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:16		1.015	5.51	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/8/23 14:16		1.015	29.3	mg/L	0.070035	0.406	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:16		1.015	1.02	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:16		1.015	0.0596	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 14:16		1.015	17.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:16		1.015	0.373	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:16		1	15.2	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:16		1.015	7.12	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:03		10.15	343	mg/L	0.4060	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 13:17		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 13:17		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 13:17		1.015	0.00828	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 13:17		1.015	0.0176	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 13:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 13:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 13:17		1.015	0.000340	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 13:17		1.015	0.000717	mg/L	0.000068	0.000203	
* Lead, Total	5/5/23 07:54	5/8/23 13:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 13:17		1.015	0.382	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-12

Location Code: WMWMILAP

Collected: 5/3/23 10:01

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08672

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 13:17		1.015	7.24	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 13:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 13:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	0.00829	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	0.0160	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	0.000570	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	0.367	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	7.17	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 00:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:39	5/4/23 14:39		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/15/23 09:44	5/15/23 12:53		1	264	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	1050	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	264	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 20:46	5/8/23 20:46		1	1.74	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-12

Location Code: WMWMILAP

Collected: 5/3/23 10:01

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08672

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:57	5/10/23 15:57		1	5.56	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:25	5/10/23 14:25		1	1.18	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 11:15	5/18/23 11:15		25	513	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/3/23 09:58	5/3/23 09:58			1489.23	uS/cm			FA
pH	5/3/23 09:58	5/3/23 09:58			6.74	SU			FA
Temperature	5/3/23 09:58	5/3/23 09:58			19.74	C			FA
Turbidity	5/3/23 09:58	5/3/23 09:58			3.9	NTU			FA
Sulfide	5/3/23 09:58	5/3/23 09:58			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 10:01
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-12

Laboratory ID Number: BD08672

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD08680	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.124	0.122	0.107	0.0850 to 0.115	102	70.0 to 130	1.63	20.0
BD08672	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0969	0.0973	0.0912	0.0850 to 0.115	96.9	70.0 to 130	0.412	20.0
BD08680	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.104	0.104	0.0999	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08672	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.110	0.111	0.0991	0.0850 to 0.115	102	70.0 to 130	0.905	20.0
BD08680	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.105	0.106	0.104	0.0850 to 0.115	99.9	70.0 to 130	0.948	20.0
BD08672	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.120	0.120	0.0996	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08680	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.121	0.122	0.100	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BD08672	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0995	0.0975	0.105	0.0850 to 0.115	99.5	70.0 to 130	2.03	20.0
BD08680	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0990	0.104	0.102	0.0850 to 0.115	99.0	70.0 to 130	4.93	20.0
BD08672	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	6.52	6.56	1.02	0.850 to 1.15	101	70.0 to 130	0.612	20.0
BD08680	Boron, Total	mg/L	0.000949	0.0650	1.00	1.26	1.25	1.01	0.850 to 1.15	104	70.0 to 130	0.797	20.0
BD08672	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0966	0.0960	0.0956	0.0850 to 0.115	96.6	70.0 to 130	0.623	20.0
BD08680	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.0992	0.0980	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.22	20.0
BD08672	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	34.1	33.5	4.95	4.25 to 5.75	96.0	70.0 to 130	1.78	20.0
BD08680	Calcium, Total	mg/L	0.000236	0.152	5.00	277	269	5.12	4.25 to 5.75	520	70.0 to 130	2.93	20.0
BD08680	Chloride	mg/L	-0.00814	1.00	10.0	14.8	14.6	9.81	9.00 to 11.0	99.5	80.0 to 120	1.36	20.0
BD08672	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0976	0.0984	0.0967	0.0850 to 0.115	97.6	70.0 to 130	0.816	20.0
BD08680	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0992	0.0984	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.810	20.0
BD08672	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0991	0.0989	0.0980	0.0850 to 0.115	98.5	70.0 to 130	0.202	20.0
BD08680	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.162	0.162	0.111	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Fluoride	mg/L	0.0384	0.125	2.50	2.84	2.82	2.54	2.25 to 2.75	101	80.0 to 120	0.707	20.0
BD08672	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.20	1.22	0.199	0.170 to 0.230	90.0	70.0 to 130	1.65	20.0
BD08680	Iron, Total	mg/L	-0.00139	0.0176	0.2	195	195	0.204	0.170 to 0.230	-2000	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 10:01
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-12

Laboratory ID Number: BD08672

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08672	Lead, Dissolved	mg/L	0.0000169	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08680	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.102	0.0991	0.106	0.0850 to 0.115	102	70.0 to 130	2.88	20.0
BD08672	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.267	0.268	0.199	0.170 to 0.230	104	70.0 to 130	0.374	20.0
BD08680	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.543	0.540	0.193	0.170 to 0.230	135	70.0 to 130	0.554	20.0
BD08672	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	22.4	22.1	5.01	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BD08680	Magnesium, Total	mg/L	0.00221	0.0462	5.00	165	161	4.95	4.25 to 5.75	320	70.0 to 130	2.45	20.0
BD08672	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.463	0.466	0.100	0.0850 to 0.115	96.0	70.0 to 130	0.646	20.0
BD08680	Manganese, Total	mg/L	0.000102	0.00033	0.100	3.66	3.62	0.105	0.0850 to 0.115	150	70.0 to 130	1.10	20.0
BD08671	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00352	0.00394	0.00394	0.00340 to 0.00460	88.0	70.0 to 130	11.3	20.0
BD08672	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.563	0.571	0.196	0.170 to 0.230	95.0	70.0 to 130	1.41	20.0
BD08680	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.199	0.202	0.170 to 0.230	101	70.0 to 130	1.50	20.0
BD08672	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	16.7	16.7	9.71	8.50 to 11.5	95.3	70.0 to 130	0.00	20.0
BD08680	Potassium, Total	mg/L	0.0190	0.367	10.0	14.7	14.5	10.4	8.50 to 11.5	103	70.0 to 130	1.37	20.0
BD08672	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD08680	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.0978	0.0974	0.104	0.0850 to 0.115	97.8	70.0 to 130	0.410	20.0
BD08672	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	8.08	8.12	1.01	0.850 to 1.15	96.0	70.0 to 130	0.494	20.0
BD08680	Silicon, Total	mg/L	-0.000181	0.0440	1.00	11.7	11.7	1.04	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD08672	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	335	305	4.86	4.25 to 5.75	-160	70.0 to 130	9.38	20.0
BD08680	Sodium, Total	mg/L	0.000886	0.0880	5.00	133	133	4.73	4.25 to 5.75	220	70.0 to 130	0.00	20.0
BD08679	Sulfate	mg/L	0.231	2.0	160	267	277	19.1	18.0 to 22.0	97.5	80.0 to 120	3.68	20.0
BD08672	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD08680	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.106	0.103	0.112	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD08680	Total Organic Carbon	mg/L	0.0698	1.00	10.0	11.4	11.6	10.0		99.8	80.0 to 120	1.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/3/23 10:01

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-12

Laboratory ID Number: BD08672

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD08685	Alkalinity	mg CaCO3/L					232	52.7	45.0 to 55.0			0.432	10.0
BD08680	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.68	0.413	2.04	1.80 to 2.20	64.6	90.0 to 110	6.50	15.0
BD08677	Solids, Dissolved	mg/L	1.00	25.0			1160	52.0	40.0 to 60.0			1.71	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9DR

Location Code: WMWMILAP

Collected: 5/3/23 11:34

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08673

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 13:56		1.015	0.272	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 17:04		10.15	180	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 17:04		10.15	25.0	mg/L	0.08120	0.406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:56		1.015	0.0710	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 17:04		10.15	99.3	mg/L	0.21315	4.06	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:56		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:56		1	29.7	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:56		1.015	13.9	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 17:04		10.15	42.7	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:32		1.015	0.252	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/11/23 13:13		10.15	178	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/11/23 13:13		10.15	25.1	mg/L	0.08120	0.406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:32		1.015	0.0603	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/11/23 13:13		10.15	101	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:32		1	28.7	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:32		1.015	13.4	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:13		10.15	43.7	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 13:21		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 13:21		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 13:21		1.015	0.000541	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 13:21		1.015	0.0217	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 13:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 13:21		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 13:21		1.015	0.000156	mg/L	0.000068	0.000203	J
* Lead, Total	5/5/23 07:54	5/8/23 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 15:00		5.075	1.66	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9DR

Location Code: WMWMILAP

Collected: 5/3/23 11:34

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08673

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 13:21		1.015	2.34	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 13:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	0.000588	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	0.0208	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/8/23 15:25		5.075	1.72	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	2.30	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 00:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:41	5/4/23 14:41		1	0.235	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/15/23 09:44	5/15/23 12:53		1	165	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	1190	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	165	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 21:03	5/8/23 21:03		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9DR

Location Code: WMWMILAP

Collected: 5/3/23 11:34

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08673

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:58	5/10/23 15:58		1	9.38	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:26	5/10/23 14:26		1	0.281	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 11:16	5/18/23 11:16		32	650	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/3/23 11:31	5/3/23 11:31			1396.25	uS/cm			FA
pH	5/3/23 11:31	5/3/23 11:31			6.46	SU			FA
Temperature	5/3/23 11:31	5/3/23 11:31			17.50	C			FA
Turbidity	5/3/23 11:31	5/3/23 11:31			2.51	NTU			FA
Sulfide	5/3/23 11:31	5/3/23 11:31			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 11:34
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-9DR

Laboratory ID Number: BD08673

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD08684	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0	
BD08680	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.124	0.122	0.107	0.0850 to 0.115	102	70.0 to 130	1.63	20.0	
BD08684	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0933	0.0932	0.0912	0.0850 to 0.115	93.3	70.0 to 130	0.107	20.0	
BD08680	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.104	0.104	0.0999	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD08684	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.102	0.103	0.0991	0.0850 to 0.115	102	70.0 to 130	0.976	20.0	
BD08680	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.105	0.106	0.104	0.0850 to 0.115	99.9	70.0 to 130	0.948	20.0	
BD08684	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	102	70.0 to 130	0.673	20.0	
BD08680	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.121	0.122	0.100	0.0850 to 0.115	104	70.0 to 130	0.823	20.0	
BD08684	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0957	0.0950	0.105	0.0850 to 0.115	95.7	70.0 to 130	0.734	20.0	
BD08680	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0990	0.104	0.102	0.0850 to 0.115	99.0	70.0 to 130	4.93	20.0	
BD08684	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	1.13	1.12	1.02	0.850 to 1.15	106	70.0 to 130	0.889	20.0	
BD08680	Boron, Total	mg/L	0.000949	0.0650	1.00	1.26	1.25	1.01	0.850 to 1.15	104	70.0 to 130	0.797	20.0	
BD08684	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0939	0.0948	0.0956	0.0850 to 0.115	93.9	70.0 to 130	0.954	20.0	
BD08680	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.0992	0.0980	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.22	20.0	
BD08684	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	113	109	4.95	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0	
BD08680	Calcium, Total	mg/L	0.000236	0.152	5.00	277	269	5.12	4.25 to 5.75	520	70.0 to 130	2.93	20.0	
BD08680	Chloride	mg/L	-0.00814	1.00	10.0	14.8	14.6	9.81	9.00 to 11.0	99.5	80.0 to 120	1.36	20.0	
BD08684	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0987	0.100	0.0967	0.0850 to 0.115	98.7	70.0 to 130	1.31	20.0	
BD08680	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0992	0.0984	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.810	20.0	
BD08684	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0969	0.0977	0.0980	0.0850 to 0.115	96.9	70.0 to 130	0.822	20.0	
BD08680	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.162	0.162	0.111	0.0850 to 0.115	108	70.0 to 130	0.00	20.0	
BD08680	Fluoride	mg/L	0.0384	0.125	2.50	2.84	2.82	2.54	2.25 to 2.75	101	80.0 to 120	0.707	20.0	
BD08684	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.84	1.83	0.199	0.170 to 0.230	95.0	70.0 to 130	0.545	20.0	
BD08680	Iron, Total	mg/L	-0.00139	0.0176	0.2	195	195	0.204	0.170 to 0.230	-2000	70.0 to 130	0.00	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 11:34
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-9DR

Laboratory ID Number: BD08673

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Lead, Dissolved	mg/L	0.0000169	0.000147	0.100	0.108	0.105	0.104	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08680	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.102	0.0991	0.106	0.0850 to 0.115	102	70.0 to 130	2.88	20.0
BD08684	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.272	0.269	0.199	0.170 to 0.230	103	70.0 to 130	1.11	20.0
BD08680	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.543	0.540	0.193	0.170 to 0.230	135	70.0 to 130	0.554	20.0
BD08684	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	54.0	51.7	5.01	4.25 to 5.75	108	70.0 to 130	4.35	20.0
BD08680	Magnesium, Total	mg/L	0.00221	0.0462	5.00	165	161	4.95	4.25 to 5.75	320	70.0 to 130	2.45	20.0
BD08684	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.325	0.330	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.53	20.0
BD08680	Manganese, Total	mg/L	0.000102	0.00033	0.100	3.66	3.62	0.105	0.0850 to 0.115	150	70.0 to 130	1.10	20.0
BD08671	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00352	0.00394	0.00394	0.00340 to 0.00460	88.0	70.0 to 130	11.3	20.0
BD08684	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.200	0.199	0.196	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD08680	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.199	0.202	0.170 to 0.230	101	70.0 to 130	1.50	20.0
BD08684	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	11.4	11.7	9.71	8.50 to 11.5	95.5	70.0 to 130	2.60	20.0
BD08680	Potassium, Total	mg/L	0.0190	0.367	10.0	14.7	14.5	10.4	8.50 to 11.5	103	70.0 to 130	1.37	20.0
BD08684	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD08680	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.0978	0.0974	0.104	0.0850 to 0.115	97.8	70.0 to 130	0.410	20.0
BD08684	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	15.1	15.0	1.01	0.850 to 1.15	120	70.0 to 130	0.664	20.0
BD08680	Silicon, Total	mg/L	-0.000181	0.0440	1.00	11.7	11.7	1.04	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD08684	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	86.3	81.4	4.86	4.25 to 5.75	136	70.0 to 130	5.84	20.0
BD08680	Sodium, Total	mg/L	0.000886	0.0880	5.00	133	133	4.73	4.25 to 5.75	220	70.0 to 130	0.00	20.0
BD08679	Sulfate	mg/L	0.231	2.0	160	267	277	19.1	18.0 to 22.0	97.5	80.0 to 120	3.68	20.0
BD08684	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD08680	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.106	0.103	0.112	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD08680	Total Organic Carbon	mg/L	0.0698	1.00	10.0	11.4	11.6	10.0		99.8	80.0 to 120	1.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/3/23 11:34

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-9DR

Laboratory ID Number: BD08673

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD08685	Alkalinity	mg CaCO3/L					232	52.7	45.0 to 55.0			0.432	10.0
BD08680	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.68	0.413	2.04	1.80 to 2.20	64.6	90.0 to 110	6.50	15.0
BD08683	Solids, Dissolved	mg/L	0.0000	25.0			1400	56.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9SR

Location Code: WMWMILAP
Collected: 5/3/23 12:47
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08674

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 13:59		1.015	0.111	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 17:14		10.15	124	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 13:59		1.015	3.66	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 13:59		1.015	0.0464	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 17:14		10.15	62.8	mg/L	0.21315	4.06	
* Molybdenum, Total	5/5/23 07:54	5/11/23 13:59		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 13:59		1	27.4	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 13:59		1.015	12.8	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 13:59		1.015	35.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:35		1.015	0.104	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/11/23 13:22		10.15	153	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:35		1.015	3.81	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:35		1.015	0.0434	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/11/23 13:22		10.15	77.5	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:35		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:35		1	26.1	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:35		1.015	12.2	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/8/23 14:35		1.015	33.1	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 13:24		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 13:24		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 13:24		1.015	0.000634	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 13:24		1.015	0.0209	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 13:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 13:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 13:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 13:24		1.015	0.000400	mg/L	0.000068	0.000203	
* Lead, Total	5/5/23 07:54	5/8/23 13:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 13:24		1.015	0.553	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9SR

Location Code: WMWMILAP

Collected: 5/3/23 12:47

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08674

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 13:24		1.015	2.17	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 13:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 13:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	0.000744	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	0.0204	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	0.000252	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	0.559	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	2.04	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 00:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:43	5/4/23 14:43		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/15/23 09:44	5/15/23 12:53		1	205	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	754	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	205	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 21:18	5/8/23 21:18		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9SR

Location Code: WMWMILAP

Collected: 5/3/23 12:47

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08674

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 15:59	5/10/23 15:59		1	2.93	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:28	5/10/23 14:28		1	0.138	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 11:17	5/18/23 11:17		20	343	mg/L	12.0	40	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/3/23 12:44	5/3/23 12:44			962.75	uS/cm			FA
pH	5/3/23 12:44	5/3/23 12:44			6.34	SU			FA
Temperature	5/3/23 12:44	5/3/23 12:44			18.47	C			FA
Turbidity	5/3/23 12:44	5/3/23 12:44			3.6	NTU			FA
Sulfide	5/3/23 12:44	5/3/23 12:44			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 12:47
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-9SR

Laboratory ID Number: BD08674

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD08684	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.124	0.122	0.107	0.0850 to 0.115	102	70.0 to 130	1.63	20.0
BD08684	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0933	0.0932	0.0912	0.0850 to 0.115	93.3	70.0 to 130	0.107	20.0
BD08680	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.104	0.104	0.0999	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08684	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.102	0.103	0.0991	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD08680	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.105	0.106	0.104	0.0850 to 0.115	99.9	70.0 to 130	0.948	20.0
BD08684	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	102	70.0 to 130	0.673	20.0
BD08680	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.121	0.122	0.100	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BD08684	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0957	0.0950	0.105	0.0850 to 0.115	95.7	70.0 to 130	0.734	20.0
BD08680	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0990	0.104	0.102	0.0850 to 0.115	99.0	70.0 to 130	4.93	20.0
BD08684	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	1.13	1.12	1.02	0.850 to 1.15	106	70.0 to 130	0.889	20.0
BD08680	Boron, Total	mg/L	0.000949	0.0650	1.00	1.26	1.25	1.01	0.850 to 1.15	104	70.0 to 130	0.797	20.0
BD08684	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0939	0.0948	0.0956	0.0850 to 0.115	93.9	70.0 to 130	0.954	20.0
BD08680	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.0992	0.0980	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.22	20.0
BD08684	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	113	109	4.95	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0
BD08680	Calcium, Total	mg/L	0.000236	0.152	5.00	277	269	5.12	4.25 to 5.75	520	70.0 to 130	2.93	20.0
BD08680	Chloride	mg/L	-0.00814	1.00	10.0	14.8	14.6	9.81	9.00 to 11.0	99.5	80.0 to 120	1.36	20.0
BD08684	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0987	0.100	0.0967	0.0850 to 0.115	98.7	70.0 to 130	1.31	20.0
BD08680	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0992	0.0984	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.810	20.0
BD08684	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0969	0.0977	0.0980	0.0850 to 0.115	96.9	70.0 to 130	0.822	20.0
BD08680	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.162	0.162	0.111	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Fluoride	mg/L	0.0384	0.125	2.50	2.84	2.82	2.54	2.25 to 2.75	101	80.0 to 120	0.707	20.0
BD08684	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.84	1.83	0.199	0.170 to 0.230	95.0	70.0 to 130	0.545	20.0
BD08680	Iron, Total	mg/L	-0.00139	0.0176	0.2	195	195	0.204	0.170 to 0.230	-2000	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 12:47
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-9SR

Laboratory ID Number: BD08674

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.108	0.105	0.104	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08680	Lead, Total	mg/L	0.000068	0.000147	0.100	0.102	0.0991	0.106	0.0850 to 0.115	102	70.0 to 130	2.88	20.0
BD08684	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.272	0.269	0.199	0.170 to 0.230	103	70.0 to 130	1.11	20.0
BD08680	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.543	0.540	0.193	0.170 to 0.230	135	70.0 to 130	0.554	20.0
BD08684	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	54.0	51.7	5.01	4.25 to 5.75	108	70.0 to 130	4.35	20.0
BD08680	Magnesium, Total	mg/L	0.00221	0.0462	5.00	165	161	4.95	4.25 to 5.75	320	70.0 to 130	2.45	20.0
BD08684	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.325	0.330	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.53	20.0
BD08680	Manganese, Total	mg/L	0.000102	0.00033	0.100	3.66	3.62	0.105	0.0850 to 0.115	150	70.0 to 130	1.10	20.0
BD08671	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00352	0.00394	0.00394	0.00340 to 0.00460	88.0	70.0 to 130	11.3	20.0
BD08684	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.200	0.199	0.196	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD08680	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.199	0.202	0.170 to 0.230	101	70.0 to 130	1.50	20.0
BD08684	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	11.4	11.7	9.71	8.50 to 11.5	95.5	70.0 to 130	2.60	20.0
BD08680	Potassium, Total	mg/L	0.0190	0.367	10.0	14.7	14.5	10.4	8.50 to 11.5	103	70.0 to 130	1.37	20.0
BD08684	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD08680	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.0978	0.0974	0.104	0.0850 to 0.115	97.8	70.0 to 130	0.410	20.0
BD08684	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	15.1	15.0	1.01	0.850 to 1.15	120	70.0 to 130	0.664	20.0
BD08680	Silicon, Total	mg/L	-0.000181	0.0440	1.00	11.7	11.7	1.04	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD08684	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	86.3	81.4	4.86	4.25 to 5.75	136	70.0 to 130	5.84	20.0
BD08680	Sodium, Total	mg/L	0.000886	0.0880	5.00	133	133	4.73	4.25 to 5.75	220	70.0 to 130	0.00	20.0
BD08679	Sulfate	mg/L	0.231	2.0	160	267	277	19.1	18.0 to 22.0	97.5	80.0 to 120	3.68	20.0
BD08684	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD08680	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.106	0.103	0.112	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD08680	Total Organic Carbon	mg/L	0.0698	1.00	10.0	11.4	11.6	10.0		99.8	80.0 to 120	1.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/3/23 12:47

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-9SR

Laboratory ID Number: BD08674

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08685	Alkalinity	mg CaCO3/L					232	52.7	45.0 to 55.0			0.432	10.0
BD08680	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.68	0.413	2.04	1.80 to 2.20	64.6	90.0 to 110	6.50	15.0
BD08683	Solids, Dissolved	mg/L	0.0000	25.0			1400	56.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Equipment Blank-2

Location Code: WMWMILAPEB
Collected: 5/3/23 13:30
Customer ID:
Submittal Date: 5/4/23 10:10

Laboratory ID Number: BD08675

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 14:03		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/5/23 07:54	5/11/23 14:03		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/5/23 07:54	5/11/23 14:03		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/5/23 07:54	5/11/23 14:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/23 07:54	5/11/23 14:03		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:03		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:03		1	Not Detected	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 14:03		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/5/23 07:54	5/11/23 14:03		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 00:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:45	5/4/23 14:45		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Equipment Blank-2

Location Code: WMWMILAPEB

Collected: 5/3/23 13:30

Customer ID:

Submittal Date: 5/4/23 10:10

Laboratory ID Number: BD08675

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 21:35	5/8/23 21:35		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:10	5/10/23 16:10		1	Not Detected	mg/L	0.50	2	U
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:29	5/10/23 14:29		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 11:19	5/18/23 11:19		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB

Sample Date: 5/3/23 13:30

Customer ID:

Delivery Date: 5/4/23 10:10

Description: Miller Ash Pond Equipment Blank-2

Laboratory ID Number: BD08675

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08680	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.124	0.122	0.107	0.0850 to 0.115	102	70.0 to 130	1.63	20.0
BD08680	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.104	0.104	0.0999	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08680	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.105	0.106	0.104	0.0850 to 0.115	99.9	70.0 to 130	0.948	20.0
BD08680	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.121	0.122	0.100	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BD08680	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0990	0.104	0.102	0.0850 to 0.115	99.0	70.0 to 130	4.93	20.0
BD08680	Boron, Total	mg/L	0.000949	0.0650	1.00	1.26	1.25	1.01	0.850 to 1.15	104	70.0 to 130	0.797	20.0
BD08680	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.0992	0.0980	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.22	20.0
BD08680	Calcium, Total	mg/L	0.000236	0.152	5.00	277	269	5.12	4.25 to 5.75	520	70.0 to 130	2.93	20.0
BD08680	Chloride	mg/L	-0.00814	1.00	10.0	14.8	14.6	9.81	9.00 to 11.0	99.5	80.0 to 120	1.36	20.0
BD08680	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0992	0.0984	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.810	20.0
BD08680	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.162	0.162	0.111	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Fluoride	mg/L	0.0384	0.125	2.50	2.84	2.82	2.54	2.25 to 2.75	101	80.0 to 120	0.707	20.0
BD08680	Iron, Total	mg/L	-0.00139	0.0176	0.2	195	195	0.204	0.170 to 0.230	-2000	70.0 to 130	0.00	20.0
BD08680	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.102	0.0991	0.106	0.0850 to 0.115	102	70.0 to 130	2.88	20.0
BD08680	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.543	0.540	0.193	0.170 to 0.230	135	70.0 to 130	0.554	20.0
BD08680	Magnesium, Total	mg/L	0.00221	0.0462	5.00	165	161	4.95	4.25 to 5.75	320	70.0 to 130	2.45	20.0
BD08680	Manganese, Total	mg/L	0.000102	0.00033	0.100	3.66	3.62	0.105	0.0850 to 0.115	150	70.0 to 130	1.10	20.0
BD08671	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00352	0.00394	0.00394	0.00340 to 0.00460	88.0	70.0 to 130	11.3	20.0
BD08680	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.199	0.202	0.170 to 0.230	101	70.0 to 130	1.50	20.0
BD08680	Potassium, Total	mg/L	0.0190	0.367	10.0	14.7	14.5	10.4	8.50 to 11.5	103	70.0 to 130	1.37	20.0
BD08680	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.0978	0.0974	0.104	0.0850 to 0.115	97.8	70.0 to 130	0.410	20.0
BD08680	Silicon, Total	mg/L	-0.000181	0.0440	1.00	11.7	11.7	1.04	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD08680	Sodium, Total	mg/L	0.000886	0.0880	5.00	133	133	4.73	4.25 to 5.75	220	70.0 to 130	0.00	20.0
BD08679	Sulfate	mg/L	0.231	2.0	160	267	277	19.1	18.0 to 22.0	97.5	80.0 to 120	3.68	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB

Sample Date: 5/3/23 13:30

Customer ID:

Delivery Date: 5/4/23 10:10

Description: Miller Ash Pond Equipment Blank-2

Laboratory ID Number: BD08675

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD08680	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.106	0.103	0.112	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD08680	Total Organic Carbon	mg/L	0.0698	1.00	10.0	11.4	11.6	10.0		99.8	80.0 to 120	1.74	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB

Sample Date: 5/3/23 13:30

Customer ID:

Delivery Date: 5/4/23 10:10

Description: Miller Ash Pond Equipment Blank-2

Laboratory ID Number: BD08675

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08680	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.68	0.413	2.04	1.80 to 2.20	64.6	90.0 to 110	6.50	15.0
BD08683	Solids, Dissolved	mg/L	0.0000	25.0			1400	56.0	40.0 to 60.0			0.00	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-22I

Location Code: WMWMILAP

Collected: 5/3/23 15:28

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08676

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 14:06		1.015	0.120	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 14:06		1.015	2.61	mg/L	0.070035	0.406	
* Iron, Total	5/5/23 07:54	5/11/23 14:06		1.015	0.0325	mg/L	0.008120	0.0406	J
* Lithium, Total	5/5/23 07:54	5/11/23 14:06		1.015	0.0503	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 14:06		1.015	0.719	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:06		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:06		1	11.5	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 14:06		1.015	5.37	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 17:17		10.15	140	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:38		1.015	0.118	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/8/23 14:38		1.015	2.51	mg/L	0.070035	0.406	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:38		1.015	0.0198	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:38		1.015	0.0435	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 14:38		1.015	0.736	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:38		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:38		1	10.9	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:38		1.015	5.08	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:25		10.15	185	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 13:31		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 13:31		1.015	0.0451	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 13:31		1.015	0.000154	mg/L	0.000112	0.000203	J
* Barium, Total	5/5/23 07:54	5/8/23 13:31		1.015	0.0360	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 13:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 13:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 13:31		1.015	0.000244	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 13:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 13:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 13:31		1.015	0.00562	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22I

Location Code: WMWMILAP

Collected: 5/3/23 15:28

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08676

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 13:31		1.015	2.95	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 13:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 13:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	0.0123	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	0.000160	mg/L	0.000112	0.000203	J
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	0.0333	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	0.00535	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	2.73	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	0.00351	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 00:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:47	5/4/23 14:47		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/15/23 09:44	5/15/23 12:53		1	259	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	370	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	253	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	6.25	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 21:49	5/8/23 21:49		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22I

Location Code: WMWMILAP

Collected: 5/3/23 15:28

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08676

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:15	5/10/23 16:15		5	32.9	mg/L	2.50	10	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:30	5/10/23 14:30		1	0.227	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 11:20	5/18/23 11:20		1	21.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/3/23 15:25	5/3/23 15:25			594.71	uS/cm			FA
pH	5/3/23 15:25	5/3/23 15:25			8.35	SU			FA
Temperature	5/3/23 15:25	5/3/23 15:25			18.26	C			FA
Turbidity	5/3/23 15:25	5/3/23 15:25			2.89	NTU			FA
Sulfide	5/3/23 15:25	5/3/23 15:25			1.0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 15:28
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22I

Laboratory ID Number: BD08676

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.124	0.122	0.107	0.0850 to 0.115	102	70.0 to 130	1.63	20.0
BD08684	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0933	0.0932	0.0912	0.0850 to 0.115	93.3	70.0 to 130	0.107	20.0
BD08680	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.104	0.104	0.0999	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08684	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.102	0.103	0.0991	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD08680	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.105	0.106	0.104	0.0850 to 0.115	99.9	70.0 to 130	0.948	20.0
BD08684	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	102	70.0 to 130	0.673	20.0
BD08680	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.121	0.122	0.100	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BD08684	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0957	0.0950	0.105	0.0850 to 0.115	95.7	70.0 to 130	0.734	20.0
BD08680	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0990	0.104	0.102	0.0850 to 0.115	99.0	70.0 to 130	4.93	20.0
BD08684	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	1.13	1.12	1.02	0.850 to 1.15	106	70.0 to 130	0.889	20.0
BD08680	Boron, Total	mg/L	0.000949	0.0650	1.00	1.26	1.25	1.01	0.850 to 1.15	104	70.0 to 130	0.797	20.0
BD08684	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0939	0.0948	0.0956	0.0850 to 0.115	93.9	70.0 to 130	0.954	20.0
BD08680	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.0992	0.0980	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.22	20.0
BD08684	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	113	109	4.95	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0
BD08680	Calcium, Total	mg/L	0.000236	0.152	5.00	277	269	5.12	4.25 to 5.75	520	70.0 to 130	2.93	20.0
BD08680	Chloride	mg/L	-0.00814	1.00	10.0	14.8	14.6	9.81	9.00 to 11.0	99.5	80.0 to 120	1.36	20.0
BD08684	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0987	0.100	0.0967	0.0850 to 0.115	98.7	70.0 to 130	1.31	20.0
BD08680	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0992	0.0984	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.810	20.0
BD08684	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0969	0.0977	0.0980	0.0850 to 0.115	96.9	70.0 to 130	0.822	20.0
BD08680	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.162	0.162	0.111	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Fluoride	mg/L	0.0384	0.125	2.50	2.84	2.82	2.54	2.25 to 2.75	101	80.0 to 120	0.707	20.0
BD08684	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.84	1.83	0.199	0.170 to 0.230	95.0	70.0 to 130	0.545	20.0
BD08680	Iron, Total	mg/L	-0.00139	0.0176	0.2	195	195	0.204	0.170 to 0.230	-2000	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 15:28
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22I

Laboratory ID Number: BD08676

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.108	0.105	0.104	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08680	Lead, Total	mg/L	0.000068	0.000147	0.100	0.102	0.0991	0.106	0.0850 to 0.115	102	70.0 to 130	2.88	20.0
BD08684	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.272	0.269	0.199	0.170 to 0.230	103	70.0 to 130	1.11	20.0
BD08680	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.543	0.540	0.193	0.170 to 0.230	135	70.0 to 130	0.554	20.0
BD08684	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	54.0	51.7	5.01	4.25 to 5.75	108	70.0 to 130	4.35	20.0
BD08680	Magnesium, Total	mg/L	0.00221	0.0462	5.00	165	161	4.95	4.25 to 5.75	320	70.0 to 130	2.45	20.0
BD08684	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.325	0.330	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.53	20.0
BD08680	Manganese, Total	mg/L	0.000102	0.00033	0.100	3.66	3.62	0.105	0.0850 to 0.115	150	70.0 to 130	1.10	20.0
BD08671	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00352	0.00394	0.00394	0.00340 to 0.00460	88.0	70.0 to 130	11.3	20.0
BD08684	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.200	0.199	0.196	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD08680	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.199	0.202	0.170 to 0.230	101	70.0 to 130	1.50	20.0
BD08684	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	11.4	11.7	9.71	8.50 to 11.5	95.5	70.0 to 130	2.60	20.0
BD08680	Potassium, Total	mg/L	0.0190	0.367	10.0	14.7	14.5	10.4	8.50 to 11.5	103	70.0 to 130	1.37	20.0
BD08684	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD08680	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.0978	0.0974	0.104	0.0850 to 0.115	97.8	70.0 to 130	0.410	20.0
BD08684	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	15.1	15.0	1.01	0.850 to 1.15	120	70.0 to 130	0.664	20.0
BD08680	Silicon, Total	mg/L	-0.000181	0.0440	1.00	11.7	11.7	1.04	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD08684	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	86.3	81.4	4.86	4.25 to 5.75	136	70.0 to 130	5.84	20.0
BD08680	Sodium, Total	mg/L	0.000886	0.0880	5.00	133	133	4.73	4.25 to 5.75	220	70.0 to 130	0.00	20.0
BD08679	Sulfate	mg/L	0.231	2.0	160	267	277	19.1	18.0 to 22.0	97.5	80.0 to 120	3.68	20.0
BD08684	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD08680	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.106	0.103	0.112	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD08680	Total Organic Carbon	mg/L	0.0698	1.00	10.0	11.4	11.6	10.0		99.8	80.0 to 120	1.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/3/23 15:28

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22I

Laboratory ID Number: BD08676

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08685	Alkalinity	mg CaCO3/L					232	52.7	45.0 to 55.0			0.432	10.0
BD08680	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.68	0.413	2.04	1.80 to 2.20	64.6	90.0 to 110	6.50	15.0
BD08683	Solids, Dissolved	mg/L	0.0000	25.0			1400	56.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-19HA

Location Code: WMWMILAP

Collected: 5/1/23 14:23

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08677

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 14:10		1.015	0.162	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 14:10		1.015	14.2	mg/L	0.070035	0.406	
* Iron, Total	5/5/23 07:54	5/11/23 14:10		1.015	0.0118	mg/L	0.008120	0.0406	J
* Lithium, Total	5/5/23 07:54	5/11/23 14:10		1.015	0.195	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 14:10		1.015	4.89	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:10		1.015	0.00550	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:10		1	13.6	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 14:10		1.015	6.34	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 18:15		101.5	400	mg/L	4.060	40.6	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:42		1.015	0.156	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/8/23 14:42		1.015	12.7	mg/L	0.070035	0.406	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:42		1.015	0.141	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 14:42		1.015	4.85	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:42		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:42		1	12.6	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:42		1.015	5.91	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 14:22		101.5	407	mg/L	4.060	40.6	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 13:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 13:35		1.015	0.0150	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 13:35		1.015	0.000273	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 13:35		1.015	0.122	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 13:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 13:35		1.015	0.000252	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 13:35		1.015	0.0163	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-19HA

Location Code: WMWMILAP
Collected: 5/1/23 14:23
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08677

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 13:35		1.015	6.97	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 13:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	0.000269	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	0.132	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	0.0152	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	6.46	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/30/23 11:00	5/30/23 11:29		1.015	0.00384	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 00:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:49	5/4/23 14:49		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	566	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/4/23 13:00	5/5/23 13:35		1	1180	mg/L		125	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	558	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	7.59	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 22:03	5/8/23 22:03		1	6.89	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-19HA

Location Code: WMWMILAP

Collected: 5/1/23 14:23

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08677

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:12	5/10/23 16:12		40	204	mg/L	20.00	80	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:31	5/10/23 14:31		1	2.07	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 11:21	5/18/23 11:21		8	142	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/1/23 14:20	5/1/23 14:20			2065.78	uS/cm			FA
pH	5/1/23 14:20	5/1/23 14:20			8.02	SU			FA
Temperature	5/1/23 14:20	5/1/23 14:20			18.91	C			FA
Turbidity	5/1/23 14:20	5/1/23 14:20			0.95	NTU			FA
Sulfide	5/1/23 14:20	5/1/23 14:20			9	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/1/23 14:23
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-19HA

Laboratory ID Number: BD08677

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.124	0.122	0.107	0.0850 to 0.115	102	70.0 to 130	1.63	20.0
BD08684	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0933	0.0932	0.0912	0.0850 to 0.115	93.3	70.0 to 130	0.107	20.0
BD08680	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.104	0.104	0.0999	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08684	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.102	0.103	0.0991	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD08680	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.105	0.106	0.104	0.0850 to 0.115	99.9	70.0 to 130	0.948	20.0
BD08684	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	102	70.0 to 130	0.673	20.0
BD08680	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.121	0.122	0.100	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BD08684	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0957	0.0950	0.105	0.0850 to 0.115	95.7	70.0 to 130	0.734	20.0
BD08680	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0990	0.104	0.102	0.0850 to 0.115	99.0	70.0 to 130	4.93	20.0
BD08684	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	1.13	1.12	1.02	0.850 to 1.15	106	70.0 to 130	0.889	20.0
BD08680	Boron, Total	mg/L	0.000949	0.0650	1.00	1.26	1.25	1.01	0.850 to 1.15	104	70.0 to 130	0.797	20.0
BD08684	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0939	0.0948	0.0956	0.0850 to 0.115	93.9	70.0 to 130	0.954	20.0
BD08680	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.0992	0.0980	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.22	20.0
BD08684	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	113	109	4.95	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0
BD08680	Calcium, Total	mg/L	0.000236	0.152	5.00	277	269	5.12	4.25 to 5.75	520	70.0 to 130	2.93	20.0
BD08680	Chloride	mg/L	-0.00814	1.00	10.0	14.8	14.6	9.81	9.00 to 11.0	99.5	80.0 to 120	1.36	20.0
BD08684	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0987	0.100	0.0967	0.0850 to 0.115	98.7	70.0 to 130	1.31	20.0
BD08680	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0992	0.0984	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.810	20.0
BD08684	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0969	0.0977	0.0980	0.0850 to 0.115	96.9	70.0 to 130	0.822	20.0
BD08680	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.162	0.162	0.111	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Fluoride	mg/L	0.0384	0.125	2.50	2.84	2.82	2.54	2.25 to 2.75	101	80.0 to 120	0.707	20.0
BD08684	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.84	1.83	0.199	0.170 to 0.230	95.0	70.0 to 130	0.545	20.0
BD08680	Iron, Total	mg/L	-0.00139	0.0176	0.2	195	195	0.204	0.170 to 0.230	-2000	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/1/23 14:23
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-19HA

Laboratory ID Number: BD08677

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD08684	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.108	0.105	0.104	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08680	Lead, Total	mg/L	0.000068	0.000147	0.100	0.102	0.0991	0.106	0.0850 to 0.115	102	70.0 to 130	2.88	20.0
BD08684	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.272	0.269	0.199	0.170 to 0.230	103	70.0 to 130	1.11	20.0
BD08680	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.543	0.540	0.193	0.170 to 0.230	135	70.0 to 130	0.554	20.0
BD08684	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	54.0	51.7	5.01	4.25 to 5.75	108	70.0 to 130	4.35	20.0
BD08680	Magnesium, Total	mg/L	0.00221	0.0462	5.00	165	161	4.95	4.25 to 5.75	320	70.0 to 130	2.45	20.0
BD08684	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.325	0.330	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.53	20.0
BD08680	Manganese, Total	mg/L	0.000102	0.00033	0.100	3.66	3.62	0.105	0.0850 to 0.115	150	70.0 to 130	1.10	20.0
BD08671	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00352	0.00394	0.00394	0.00340 to 0.00460	88.0	70.0 to 130	11.3	20.0
BD08684	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.200	0.199	0.196	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD08680	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.199	0.202	0.170 to 0.230	101	70.0 to 130	1.50	20.0
BD08684	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	11.4	11.7	9.71	8.50 to 11.5	95.5	70.0 to 130	2.60	20.0
BD08680	Potassium, Total	mg/L	0.0190	0.367	10.0	14.7	14.5	10.4	8.50 to 11.5	103	70.0 to 130	1.37	20.0
BD08678	Selenium, Dissolved	mg/L	0.0000557	0.00100	0.100			0.0989	0.0850 to 0.115		70.0 to 130		20.0
BD08680	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.0978	0.0974	0.104	0.0850 to 0.115	97.8	70.0 to 130	0.410	20.0
BD08684	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	15.1	15.0	1.01	0.850 to 1.15	120	70.0 to 130	0.664	20.0
BD08680	Silicon, Total	mg/L	-0.000181	0.0440	1.00	11.7	11.7	1.04	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD08684	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	86.3	81.4	4.86	4.25 to 5.75	136	70.0 to 130	5.84	20.0
BD08680	Sodium, Total	mg/L	0.000886	0.0880	5.00	133	133	4.73	4.25 to 5.75	220	70.0 to 130	0.00	20.0
BD08679	Sulfate	mg/L	0.231	2.0	160	267	277	19.1	18.0 to 22.0	97.5	80.0 to 120	3.68	20.0
BD08684	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD08680	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.106	0.103	0.112	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD08680	Total Organic Carbon	mg/L	0.0698	1.00	10.0	11.4	11.6	10.0		99.8	80.0 to 120	1.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/1/23 14:23

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-19HA

Laboratory ID Number: BD08677

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08680	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.68	0.413	2.04	1.80 to 2.20	64.6	90.0 to 110	6.50	15.0
BD08677	Solids, Dissolved	mg/L	1.00	25.0			1160	52.0	40.0 to 60.0			1.71	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-34H

Location Code: WMWMILAP

Collected: 5/2/23 10:25

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08678

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 14:13		1.015	0.127	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 14:13		1.015	14.9	mg/L	0.070035	0.406	
* Iron, Total	5/5/23 07:54	5/11/23 14:13		1.015	0.0262	mg/L	0.008120	0.0406	J
* Lithium, Total	5/5/23 07:54	5/11/23 14:13		1.015	0.163	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 14:13		1.015	3.94	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:13		1.015	0.00568	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:13		1	16.1	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 14:13		1.015	7.51	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 17:20		10.15	388	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:45		1.015	0.117	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/8/23 14:45		1.015	12.3	mg/L	0.070035	0.406	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:45		1.015	0.0247	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:45		1.015	0.122	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 14:45		1.015	3.62	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:45		1	15.0	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:45		1.015	7.00	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:28		10.15	369	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 13:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 13:39		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 13:39		1.015	0.00211	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 13:39		1.015	0.0437	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 13:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 13:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 13:39		1.015	0.0294	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-34H

Location Code: WMWMILAP

Collected: 5/2/23 10:25

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08678

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 13:39		1.015	6.55	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	0.00148	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	0.0487	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	0.0252	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	5.55	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/30/23 11:00	5/30/23 11:33		1.015	0.00345	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 00:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:51	5/4/23 14:51		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	436	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	920	mg/L		100	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	432	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	3.97	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 22:18	5/8/23 22:18		1	11.9	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-34H

Location Code: WMWMILAP

Collected: 5/2/23 10:25

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08678

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:14	5/10/23 16:14		40	108	mg/L	20.00	80	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:32	5/10/23 14:32		1	0.400	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 11:22	5/18/23 11:22		8	137	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/2/23 10:20	5/2/23 10:20			1608.47	uS/cm			FA
pH	5/2/23 10:20	5/2/23 10:20			7.87	SU			FA
Temperature	5/2/23 10:20	5/2/23 10:20			16.85	C			FA
Turbidity	5/2/23 10:20	5/2/23 10:20			0.85	NTU			FA
Sulfide	5/2/23 10:20	5/2/23 10:20			7	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 10:25
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-34H

Laboratory ID Number: BD08678

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD08684	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.124	0.122	0.107	0.0850 to 0.115	102	70.0 to 130	1.63	20.0
BD08684	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0933	0.0932	0.0912	0.0850 to 0.115	93.3	70.0 to 130	0.107	20.0
BD08680	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.104	0.104	0.0999	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08684	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.102	0.103	0.0991	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD08680	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.105	0.106	0.104	0.0850 to 0.115	99.9	70.0 to 130	0.948	20.0
BD08684	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	102	70.0 to 130	0.673	20.0
BD08680	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.121	0.122	0.100	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BD08684	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0957	0.0950	0.105	0.0850 to 0.115	95.7	70.0 to 130	0.734	20.0
BD08680	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0990	0.104	0.102	0.0850 to 0.115	99.0	70.0 to 130	4.93	20.0
BD08684	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	1.13	1.12	1.02	0.850 to 1.15	106	70.0 to 130	0.889	20.0
BD08680	Boron, Total	mg/L	0.000949	0.0650	1.00	1.26	1.25	1.01	0.850 to 1.15	104	70.0 to 130	0.797	20.0
BD08684	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0939	0.0948	0.0956	0.0850 to 0.115	93.9	70.0 to 130	0.954	20.0
BD08680	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.0992	0.0980	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.22	20.0
BD08684	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	113	109	4.95	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0
BD08680	Calcium, Total	mg/L	0.000236	0.152	5.00	277	269	5.12	4.25 to 5.75	520	70.0 to 130	2.93	20.0
BD08680	Chloride	mg/L	-0.00814	1.00	10.0	14.8	14.6	9.81	9.00 to 11.0	99.5	80.0 to 120	1.36	20.0
BD08684	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0987	0.100	0.0967	0.0850 to 0.115	98.7	70.0 to 130	1.31	20.0
BD08680	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0992	0.0984	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.810	20.0
BD08684	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0969	0.0977	0.0980	0.0850 to 0.115	96.9	70.0 to 130	0.822	20.0
BD08680	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.162	0.162	0.111	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Fluoride	mg/L	0.0384	0.125	2.50	2.84	2.82	2.54	2.25 to 2.75	101	80.0 to 120	0.707	20.0
BD08684	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.84	1.83	0.199	0.170 to 0.230	95.0	70.0 to 130	0.545	20.0
BD08680	Iron, Total	mg/L	-0.00139	0.0176	0.2	195	195	0.204	0.170 to 0.230	-2000	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 10:25

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-34H

Laboratory ID Number: BD08678

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.108	0.105	0.104	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08680	Lead, Total	mg/L	0.000068	0.000147	0.100	0.102	0.0991	0.106	0.0850 to 0.115	102	70.0 to 130	2.88	20.0
BD08684	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.272	0.269	0.199	0.170 to 0.230	103	70.0 to 130	1.11	20.0
BD08680	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.543	0.540	0.193	0.170 to 0.230	135	70.0 to 130	0.554	20.0
BD08684	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	54.0	51.7	5.01	4.25 to 5.75	108	70.0 to 130	4.35	20.0
BD08680	Magnesium, Total	mg/L	0.00221	0.0462	5.00	165	161	4.95	4.25 to 5.75	320	70.0 to 130	2.45	20.0
BD08684	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.325	0.330	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.53	20.0
BD08680	Manganese, Total	mg/L	0.000102	0.00033	0.100	3.66	3.62	0.105	0.0850 to 0.115	150	70.0 to 130	1.10	20.0
BD08671	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00352	0.00394	0.00394	0.00340 to 0.00460	88.0	70.0 to 130	11.3	20.0
BD08684	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.200	0.199	0.196	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD08680	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.199	0.202	0.170 to 0.230	101	70.0 to 130	1.50	20.0
BD08684	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	11.4	11.7	9.71	8.50 to 11.5	95.5	70.0 to 130	2.60	20.0
BD08680	Potassium, Total	mg/L	0.0190	0.367	10.0	14.7	14.5	10.4	8.50 to 11.5	103	70.0 to 130	1.37	20.0
BD08678	Selenium, Dissolved	mg/L	0.0000557	0.00100	0.100			0.0989	0.0850 to 0.115		70.0 to 130		20.0
BD08680	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.0978	0.0974	0.104	0.0850 to 0.115	97.8	70.0 to 130	0.410	20.0
BD08684	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	15.1	15.0	1.01	0.850 to 1.15	120	70.0 to 130	0.664	20.0
BD08680	Silicon, Total	mg/L	-0.000181	0.0440	1.00	11.7	11.7	1.04	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD08684	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	86.3	81.4	4.86	4.25 to 5.75	136	70.0 to 130	5.84	20.0
BD08680	Sodium, Total	mg/L	0.000886	0.0880	5.00	133	133	4.73	4.25 to 5.75	220	70.0 to 130	0.00	20.0
BD08679	Sulfate	mg/L	0.231	2.0	160	267	277	19.1	18.0 to 22.0	97.5	80.0 to 120	3.68	20.0
BD08684	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD08680	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.106	0.103	0.112	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD08680	Total Organic Carbon	mg/L	0.0698	1.00	10.0	11.4	11.6	10.0		99.8	80.0 to 120	1.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 10:25

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-34H

Laboratory ID Number: BD08678

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08680	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.68	0.413	2.04	1.80 to 2.20	64.6	90.0 to 110	6.50	15.0
BD08683	Solids, Dissolved	mg/L	0.0000	25.0			1400	56.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-18H

Location Code: WMWMILAP
Collected: 5/2/23 11:55
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08679

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 14:16		1.015	0.172	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 14:16		1.015	3.04	mg/L	0.070035	0.406	
* Iron, Total	5/5/23 07:54	5/11/23 14:16		1.015	0.366	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 14:16		1.015	0.112	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 14:16		1.015	1.19	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:16		1.015	0.0130	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:16		1	11.0	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 14:16		1.015	5.13	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 17:23		10.15	153	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:48		1.015	0.167	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/8/23 14:48		1.015	2.74	mg/L	0.070035	0.406	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:48		1.015	0.149	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:48		1.015	0.0955	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 14:48		1.015	1.18	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:48		1.015	0.0118	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:48		1	10.3	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:48		1.015	4.80	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:31		10.15	156	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 13:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 13:42		1.015	0.0370	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 13:42		1.015	0.000179	mg/L	0.000112	0.000203	J
* Barium, Total	5/5/23 07:54	5/8/23 13:42		1.015	0.0402	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 13:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 13:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 13:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 13:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 13:42		1.015	0.000117	mg/L	0.000068	0.000203	J
* Manganese, Total	5/5/23 07:54	5/8/23 13:42		1.015	0.0168	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-18H

Location Code: WMWMILAP
Collected: 5/2/23 11:55
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08679

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 13:42		1.015	0.892	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 13:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 13:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	0.000185	mg/L	0.000112	0.000203	J
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	0.0389	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	0.0151	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	0.847	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	0.00117	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 00:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:52	5/4/23 14:52		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	195	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	400	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	193	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	1.48	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 22:36	5/8/23 22:36		1	1.57	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-18H

Location Code: WMWMILAP
Collected: 5/2/23 11:55
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08679

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:04	5/10/23 16:04		1	4.30	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:34	5/10/23 14:34		1	0.284	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 11:23	5/18/23 11:23		8	111	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/2/23 11:52	5/2/23 11:52			653.68	uS/cm			FA
pH	5/2/23 11:52	5/2/23 11:52			7.52	SU			FA
Temperature	5/2/23 11:52	5/2/23 11:52			19.31	C			FA
Turbidity	5/2/23 11:52	5/2/23 11:52			1.85	NTU			FA
Sulfide	5/2/23 11:52	5/2/23 11:52			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 11:55
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: BD08679

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.124	0.122	0.107	0.0850 to 0.115	102	70.0 to 130	1.63	20.0
BD08684	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0933	0.0932	0.0912	0.0850 to 0.115	93.3	70.0 to 130	0.107	20.0
BD08680	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.104	0.104	0.0999	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08684	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.102	0.103	0.0991	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD08680	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.105	0.106	0.104	0.0850 to 0.115	99.9	70.0 to 130	0.948	20.0
BD08684	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	102	70.0 to 130	0.673	20.0
BD08680	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.121	0.122	0.100	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BD08684	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0957	0.0950	0.105	0.0850 to 0.115	95.7	70.0 to 130	0.734	20.0
BD08680	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0990	0.104	0.102	0.0850 to 0.115	99.0	70.0 to 130	4.93	20.0
BD08684	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	1.13	1.12	1.02	0.850 to 1.15	106	70.0 to 130	0.889	20.0
BD08680	Boron, Total	mg/L	0.000949	0.0650	1.00	1.26	1.25	1.01	0.850 to 1.15	104	70.0 to 130	0.797	20.0
BD08684	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0939	0.0948	0.0956	0.0850 to 0.115	93.9	70.0 to 130	0.954	20.0
BD08680	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.0992	0.0980	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.22	20.0
BD08684	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	113	109	4.95	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0
BD08680	Calcium, Total	mg/L	0.000236	0.152	5.00	277	269	5.12	4.25 to 5.75	520	70.0 to 130	2.93	20.0
BD08680	Chloride	mg/L	-0.00814	1.00	10.0	14.8	14.6	9.81	9.00 to 11.0	99.5	80.0 to 120	1.36	20.0
BD08684	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0987	0.100	0.0967	0.0850 to 0.115	98.7	70.0 to 130	1.31	20.0
BD08680	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0992	0.0984	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.810	20.0
BD08684	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0969	0.0977	0.0980	0.0850 to 0.115	96.9	70.0 to 130	0.822	20.0
BD08680	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.162	0.162	0.111	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Fluoride	mg/L	0.0384	0.125	2.50	2.84	2.82	2.54	2.25 to 2.75	101	80.0 to 120	0.707	20.0
BD08684	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.84	1.83	0.199	0.170 to 0.230	95.0	70.0 to 130	0.545	20.0
BD08680	Iron, Total	mg/L	-0.00139	0.0176	0.2	195	195	0.204	0.170 to 0.230	-2000	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 11:55
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: BD08679

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Lead, Dissolved	mg/L	0.0000169	0.000147	0.100	0.108	0.105	0.104	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08680	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.102	0.0991	0.106	0.0850 to 0.115	102	70.0 to 130	2.88	20.0
BD08684	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.272	0.269	0.199	0.170 to 0.230	103	70.0 to 130	1.11	20.0
BD08680	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.543	0.540	0.193	0.170 to 0.230	135	70.0 to 130	0.554	20.0
BD08684	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	54.0	51.7	5.01	4.25 to 5.75	108	70.0 to 130	4.35	20.0
BD08680	Magnesium, Total	mg/L	0.00221	0.0462	5.00	165	161	4.95	4.25 to 5.75	320	70.0 to 130	2.45	20.0
BD08684	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.325	0.330	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.53	20.0
BD08680	Manganese, Total	mg/L	0.000102	0.00033	0.100	3.66	3.62	0.105	0.0850 to 0.115	150	70.0 to 130	1.10	20.0
BD08671	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00352	0.00394	0.00394	0.00340 to 0.00460	88.0	70.0 to 130	11.3	20.0
BD08684	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.200	0.199	0.196	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD08680	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.199	0.202	0.170 to 0.230	101	70.0 to 130	1.50	20.0
BD08684	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	11.4	11.7	9.71	8.50 to 11.5	95.5	70.0 to 130	2.60	20.0
BD08680	Potassium, Total	mg/L	0.0190	0.367	10.0	14.7	14.5	10.4	8.50 to 11.5	103	70.0 to 130	1.37	20.0
BD08684	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD08680	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.0978	0.0974	0.104	0.0850 to 0.115	97.8	70.0 to 130	0.410	20.0
BD08684	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	15.1	15.0	1.01	0.850 to 1.15	120	70.0 to 130	0.664	20.0
BD08680	Silicon, Total	mg/L	-0.000181	0.0440	1.00	11.7	11.7	1.04	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD08684	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	86.3	81.4	4.86	4.25 to 5.75	136	70.0 to 130	5.84	20.0
BD08680	Sodium, Total	mg/L	0.000886	0.0880	5.00	133	133	4.73	4.25 to 5.75	220	70.0 to 130	0.00	20.0
BD08679	Sulfate	mg/L	0.231	2.0	160	267	277	19.1	18.0 to 22.0	97.5	80.0 to 120	3.68	20.0
BD08684	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD08680	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.106	0.103	0.112	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD08680	Total Organic Carbon	mg/L	0.0698	1.00	10.0	11.4	11.6	10.0		99.8	80.0 to 120	1.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 11:55

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: BD08679

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08680	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.68	0.413	2.04	1.80 to 2.20	64.6	90.0 to 110	6.50	15.0
BD08683	Solids, Dissolved	mg/L	0.0000	25.0			1400	56.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-2

Location Code: WMWMILAP

Collected: 5/2/23 13:52

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08680

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	5/5/23 07:54	5/11/23 14:20		1.015	0.216	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 17:27		10.15	251	mg/L	0.70035	4.06	RA
* Iron, Total	5/5/23 07:54	5/11/23 18:18		101.5	199	mg/L	0.8120	4.06	RA
* Lithium, Total	5/5/23 07:54	5/11/23 14:20		1.015	0.273	mg/L	0.007105	0.01999956	R
* Magnesium, Total	5/5/23 07:54	5/11/23 17:27		10.15	149	mg/L	0.21315	4.06	RA
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:20		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:20		1	22.9	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 14:20		1.015	10.7	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 17:27		10.15	122	mg/L	0.4060	4.06	RA
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:51		1.015	0.178	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/4/23 13:04	5/11/23 13:35		10.15	245	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/11/23 14:25		101.5	204	mg/L	0.8120	4.06	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:51		1.015	0.222	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/11/23 13:35		10.15	149	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:51		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:51		1	22.3	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:51		1.015	10.4	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:35		10.15	119	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	5/5/23 07:54	5/8/23 13:46		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 13:46		1.015	0.0216	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 13:46		1.015	0.00514	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 13:46		1.015	0.0175	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 13:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 13:46		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 13:46		1.015	0.0538	mg/L	0.000068	0.000203	
* Lead, Total	5/5/23 07:54	5/8/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 15:04		5.075	3.51	mg/L	0.000761	0.005075	RA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-2

Location Code: WMWMILAP
Collected: 5/2/23 13:52
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08680

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 13:46		1.015	4.39	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 13:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	0.0168	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	0.00545	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	0.0167	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	0.0531	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/8/23 15:29		5.075	3.59	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	4.35	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	0.000975	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 00:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 14:54	5/4/23 14:54		1	0.387	mg/L as N	0.20	0.3	R
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	9.84	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	2400	mg/L		147.1	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	9.84	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/8/23 22:51	5/8/23 22:51		1	1.42	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-2

Location Code: WMWMILAP

Collected: 5/2/23 13:52

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08680

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:05	5/10/23 16:05		1	4.85	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:39	5/10/23 14:39		1	0.321	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 12:17	5/18/23 12:17		64	1570	mg/L	38.4	128	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/2/23 13:49	5/2/23 13:49			2693.21	uS/cm			FA
pH	5/2/23 13:49	5/2/23 13:49			6.12	SU			FA
Temperature	5/2/23 13:49	5/2/23 13:49			18.63	C			FA
Turbidity	5/2/23 13:49	5/2/23 13:49			1.16	NTU			FA
Sulfide	5/2/23 13:49	5/2/23 13:49			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 13:52
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-2

Laboratory ID Number: BD08680

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Aluminum, Total	mg/L	0.000940	0.0198	0.100	0.124	0.122	0.107	0.0850 to 0.115	102	70.0 to 130	1.63	20.0
BD08684	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0933	0.0932	0.0912	0.0850 to 0.115	93.3	70.0 to 130	0.107	20.0
BD08680	Antimony, Total	mg/L	0.000365	0.00100	0.100	0.104	0.104	0.0999	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD08684	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.102	0.103	0.0991	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD08680	Arsenic, Total	mg/L	-0.0000182	0.000200	0.100	0.105	0.106	0.104	0.0850 to 0.115	99.9	70.0 to 130	0.948	20.0
BD08684	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	102	70.0 to 130	0.673	20.0
BD08680	Barium, Total	mg/L	0.0000123	0.00100	0.100	0.121	0.122	0.100	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BD08684	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0957	0.0950	0.105	0.0850 to 0.115	95.7	70.0 to 130	0.734	20.0
BD08680	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.0990	0.104	0.102	0.0850 to 0.115	99.0	70.0 to 130	4.93	20.0
BD08684	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	1.13	1.12	1.02	0.850 to 1.15	106	70.0 to 130	0.889	20.0
BD08680	Boron, Total	mg/L	0.000949	0.0650	1.00	1.26	1.25	1.01	0.850 to 1.15	104	70.0 to 130	0.797	20.0
BD08684	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0939	0.0948	0.0956	0.0850 to 0.115	93.9	70.0 to 130	0.954	20.0
BD08680	Cadmium, Total	mg/L	0.0000081	0.000147	0.100	0.0992	0.0980	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.22	20.0
BD08684	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	113	109	4.95	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0
BD08680	Calcium, Total	mg/L	0.000236	0.152	5.00	277	269	5.12	4.25 to 5.75	520	70.0 to 130	2.93	20.0
BD08680	Chloride	mg/L	-0.00814	1.00	10.0	14.8	14.6	9.81	9.00 to 11.0	99.5	80.0 to 120	1.36	20.0
BD08684	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0987	0.100	0.0967	0.0850 to 0.115	98.7	70.0 to 130	1.31	20.0
BD08680	Chromium, Total	mg/L	0.0000152	0.000440	0.100	0.0992	0.0984	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.810	20.0
BD08684	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0969	0.0977	0.0980	0.0850 to 0.115	96.9	70.0 to 130	0.822	20.0
BD08680	Cobalt, Total	mg/L	0.0000042	0.000147	0.100	0.162	0.162	0.111	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08680	Fluoride	mg/L	0.0384	0.125	2.50	2.84	2.82	2.54	2.25 to 2.75	101	80.0 to 120	0.707	20.0
BD08684	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.84	1.83	0.199	0.170 to 0.230	95.0	70.0 to 130	0.545	20.0
BD08680	Iron, Total	mg/L	-0.00139	0.0176	0.2	195	195	0.204	0.170 to 0.230	-2000	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 13:52
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-2

Laboratory ID Number: BD08680

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.108	0.105	0.104	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08680	Lead, Total	mg/L	0.000068	0.000147	0.100	0.102	0.0991	0.106	0.0850 to 0.115	102	70.0 to 130	2.88	20.0
BD08684	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.272	0.269	0.199	0.170 to 0.230	103	70.0 to 130	1.11	20.0
BD08680	Lithium, Total	mg/L	8.200E-05	0.0154	0.200	0.543	0.540	0.193	0.170 to 0.230	135	70.0 to 130	0.554	20.0
BD08684	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	54.0	51.7	5.01	4.25 to 5.75	108	70.0 to 130	4.35	20.0
BD08680	Magnesium, Total	mg/L	0.00221	0.0462	5.00	165	161	4.95	4.25 to 5.75	320	70.0 to 130	2.45	20.0
BD08684	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.325	0.330	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.53	20.0
BD08680	Manganese, Total	mg/L	0.000102	0.00033	0.100	3.66	3.62	0.105	0.0850 to 0.115	150	70.0 to 130	1.10	20.0
BD08671	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00352	0.00394	0.00394	0.00340 to 0.00460	88.0	70.0 to 130	11.3	20.0
BD08684	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.200	0.199	0.196	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD08680	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.199	0.202	0.170 to 0.230	101	70.0 to 130	1.50	20.0
BD08684	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	11.4	11.7	9.71	8.50 to 11.5	95.5	70.0 to 130	2.60	20.0
BD08680	Potassium, Total	mg/L	0.0190	0.367	10.0	14.7	14.5	10.4	8.50 to 11.5	103	70.0 to 130	1.37	20.0
BD08684	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD08680	Selenium, Total	mg/L	0.000319	0.00100	0.100	0.0978	0.0974	0.104	0.0850 to 0.115	97.8	70.0 to 130	0.410	20.0
BD08684	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	15.1	15.0	1.01	0.850 to 1.15	120	70.0 to 130	0.664	20.0
BD08680	Silicon, Total	mg/L	-0.000181	0.0440	1.00	11.7	11.7	1.04	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD08684	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	86.3	81.4	4.86	4.25 to 5.75	136	70.0 to 130	5.84	20.0
BD08680	Sodium, Total	mg/L	0.000886	0.0880	5.00	133	133	4.73	4.25 to 5.75	220	70.0 to 130	0.00	20.0
BD08686	Sulfate	mg/L	-0.0404	2.0	500	973	962	19.6	18.0 to 22.0	106	80.0 to 120	1.14	20.0
BD08684	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD08680	Thallium, Total	mg/L	0.0000070	0.000147	0.100	0.106	0.103	0.112	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD08680	Total Organic Carbon	mg/L	0.0698	1.00	10.0	11.4	11.6	10.0		99.8	80.0 to 120	1.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 13:52

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-2

Laboratory ID Number: BD08680

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08680	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.68	0.413	2.04	1.80 to 2.20	64.6	90.0 to 110	6.50	15.0
BD08683	Solids, Dissolved	mg/L	0.0000	25.0			1400	56.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-11

Location Code: WMWMILAP
Collected: 5/3/23 10:51
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08681

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 14:43		1.015	0.0402	mg/L	0.030000	0.1015	J
* Calcium, Total	5/5/23 07:54	5/11/23 17:36		10.15	231	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 17:36		10.15	7.57	mg/L	0.08120	0.406	
* Lithium, Total	5/5/23 07:54	5/11/23 14:43		1.015	0.144	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 17:36		10.15	112	mg/L	0.21315	4.06	
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:43		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:43		1	16.0	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 14:43		1.015	7.48	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 17:36		10.15	71.5	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:54		1.015	0.0353	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/4/23 13:04	5/11/23 13:38		10.15	201	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/11/23 13:38		10.15	6.24	mg/L	0.08120	0.406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:54		1.015	0.140	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/11/23 13:38		10.15	98.2	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:54		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:54		1	14.6	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:54		1.015	6.84	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:38		10.15	69.6	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 14:14		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 14:14		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 14:14		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	5/5/23 07:54	5/8/23 14:14		1.015	0.0218	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 14:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 14:14		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 14:14		1.015	0.119	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-11

Location Code: WMWMILAP

Collected: 5/3/23 10:51

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08681

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 14:14		1.015	3.57	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 14:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	0.0202	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	0.111	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	4.86	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 01:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 15:04	5/4/23 15:04		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/15/23 09:44	5/15/23 12:53		1	193	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	1240	mg/L		100	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	193	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/9/23 00:04	5/9/23 00:04		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-11

Location Code: WMWMILAP

Collected: 5/3/23 10:51

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08681

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:25	5/10/23 16:25		1	6.53	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:48	5/10/23 14:48		1	0.172	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 12:19	5/18/23 12:19		32	716	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/3/23 10:49	5/3/23 10:49			1614.87	uS/cm			FA
pH	5/3/23 10:49	5/3/23 10:49			6.52	SU			FA
Temperature	5/3/23 10:49	5/3/23 10:49			19.49	C			FA
Turbidity	5/3/23 10:49	5/3/23 10:49			2.97	NTU			FA
Sulfide	5/3/23 10:49	5/3/23 10:49			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 10:51
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-11

Laboratory ID Number: BD08681

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08686	Aluminum, Total	mg/L	0.00109	0.0198	0.100	0.115	0.115	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD08684	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0933	0.0932	0.0912	0.0850 to 0.115	93.3	70.0 to 130	0.107	20.0
BD08686	Antimony, Total	mg/L	0.000259	0.00100	0.100	0.130	0.126	0.0995	0.0850 to 0.115	104	70.0 to 130	3.12	20.0
BD08684	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.102	0.103	0.0991	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD08686	Arsenic, Total	mg/L	-0.0000342	0.000200	0.100	0.106	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	3.85	20.0
BD08684	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	102	70.0 to 130	0.673	20.0
BD08686	Barium, Total	mg/L	0.0000117	0.00100	0.100	0.253	0.245	0.103	0.0850 to 0.115	105	70.0 to 130	3.21	20.0
BD08684	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0957	0.0950	0.105	0.0850 to 0.115	95.7	70.0 to 130	0.734	20.0
BD08686	Beryllium, Total	mg/L	0.0000269	0.000880	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD08684	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	1.13	1.12	1.02	0.850 to 1.15	106	70.0 to 130	0.889	20.0
BD08686	Boron, Total	mg/L	0.00273	0.0650	1.00	1.08	1.10	1.00	0.850 to 1.15	102	70.0 to 130	1.83	20.0
BD08684	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0939	0.0948	0.0956	0.0850 to 0.115	93.9	70.0 to 130	0.954	20.0
BD08686	Cadmium, Total	mg/L	0.0000050	0.000147	0.100	0.0974	0.0966	0.0947	0.0850 to 0.115	97.4	70.0 to 130	0.825	20.0
BD08684	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	113	109	4.95	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0
BD08686	Calcium, Total	mg/L	0.00173	0.152	5.00	142	132	5.16	4.25 to 5.75	240	70.0 to 130	7.30	20.0
BD08686	Chloride	mg/L	0.0389	1.00	10.0	17.9	17.7	9.32	9.00 to 11.0	86.3	80.0 to 120	1.12	20.0
BD08684	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0987	0.100	0.0967	0.0850 to 0.115	98.7	70.0 to 130	1.31	20.0
BD08686	Chromium, Total	mg/L	-0.0000303	0.000440	0.100	0.103	0.102	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.976	20.0
BD08684	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0969	0.0977	0.0980	0.0850 to 0.115	96.9	70.0 to 130	0.822	20.0
BD08686	Cobalt, Total	mg/L	0.0000004	0.000147	0.100	0.107	0.106	0.110	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD08686	Fluoride	mg/L	-0.0167	0.125	2.50	2.72	2.73	2.53	2.25 to 2.75	102	80.0 to 120	0.367	20.0
BD08684	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.84	1.83	0.199	0.170 to 0.230	95.0	70.0 to 130	0.545	20.0
BD08686	Iron, Total	mg/L	-0.00171	0.0176	0.2	6.72	6.14	0.209	0.170 to 0.230	215	70.0 to 130	9.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 10:51
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-11

Laboratory ID Number: BD08681

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.108	0.105	0.104	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08686	Lead, Total	mg/L	0.000089	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD08684	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.272	0.269	0.199	0.170 to 0.230	103	70.0 to 130	1.11	20.0
BD08686	Lithium, Total	mg/L	7.900E-05	0.0154	0.200	0.448	0.454	0.191	0.170 to 0.230	121	70.0 to 130	1.33	20.0
BD08684	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	54.0	51.7	5.01	4.25 to 5.75	108	70.0 to 130	4.35	20.0
BD08686	Magnesium, Total	mg/L	0.000225	0.0462	5.00	31.9	32.4	4.94	4.25 to 5.75	94.0	70.0 to 130	1.56	20.0
BD08684	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.325	0.330	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.53	20.0
BD08686	Manganese, Total	mg/L	0.0000633	0.00033	0.100	0.221	0.220	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.454	20.0
BD08681	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00394	0.00394	0.00394	0.00340 to 0.00460	98.5	70.0 to 130	0.00	20.0
BD08684	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.200	0.199	0.196	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD08686	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.202	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD08684	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	11.4	11.7	9.71	8.50 to 11.5	95.5	70.0 to 130	2.60	20.0
BD08686	Potassium, Total	mg/L	0.00262	0.367	10.0	16.2	16.0	10.4	8.50 to 11.5	100	70.0 to 130	1.24	20.0
BD08684	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD08686	Selenium, Total	mg/L	0.000102	0.00100	0.100	0.102	0.0987	0.103	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD08684	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	15.1	15.0	1.01	0.850 to 1.15	120	70.0 to 130	0.664	20.0
BD08686	Silicon, Total	mg/L	0.00108	0.0440	1.00	7.96	8.11	1.03	0.850 to 1.15	103	70.0 to 130	1.87	20.0
BD08684	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	86.3	81.4	4.86	4.25 to 5.75	136	70.0 to 130	5.84	20.0
BD08686	Sodium, Total	mg/L	0.000560	0.0880	5.00	174	162	4.66	4.25 to 5.75	200	70.0 to 130	7.14	20.0
BD08686	Sulfate	mg/L	-0.0404	2.0	500	973	962	19.6	18.0 to 22.0	106	80.0 to 120	1.14	20.0
BD08684	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD08686	Thallium, Total	mg/L	0.0000053	0.000147	0.100	0.110	0.106	0.108	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD08686	Total Organic Carbon	mg/L	0.0551	1.00	10.0	11.8	11.9	10.1		101	80.0 to 120	0.844	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/3/23 10:51

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-11

Laboratory ID Number: BD08681

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08685	Alkalinity	mg CaCO3/L					232	52.7	45.0 to 55.0			0.432	10.0
BD08686	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.96	0.076	1.94	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD08683	Solids, Dissolved	mg/L	0.0000	25.0			1400	56.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-4

Location Code: WMWMILAPFB
Collected: 5/3/23 13:00
Customer ID:
Submittal Date: 5/4/23 10:11

Laboratory ID Number: BD08682

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	5/5/23 07:54	5/11/23 14:47		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/5/23 07:54	5/11/23 14:47		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	5/5/23 07:54	5/11/23 14:47		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/5/23 07:54	5/11/23 14:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/5/23 07:54	5/11/23 14:47		1.015	0.0295	mg/L	0.021315	0.406	J	
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:47		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:47		1	Not Detected	mg/L				
* Silicon, Total	5/5/23 07:54	5/11/23 14:47		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	5/5/23 07:54	5/11/23 14:47		1.015	Not Detected	mg/L	0.04060	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Potassium, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	5/5/23 07:54	5/8/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: ELH								
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 01:17		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: SC								
* Nitrogen, Nitrate/Nitrite	5/4/23 15:05	5/4/23 15:05		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	Not Detected	mg/L		25	U	

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-4

Location Code: WMWMILAPFB

Collected: 5/3/23 13:00

Customer ID:

Submittal Date: 5/4/23 10:11

Laboratory ID Number: BD08682

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/9/23 00:18	5/9/23 00:18		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:37	5/10/23 16:37		1	Not Detected	mg/L	0.50	2	U
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:49	5/10/23 14:49		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 12:20	5/18/23 12:20		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 5/3/23 13:00

Customer ID:

Delivery Date: 5/4/23 10:11

Description: Miller Ash Pond Field Blank-4

Laboratory ID Number: BD08682

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08686	Aluminum, Total	mg/L	0.00109	0.0198	0.100	0.115	0.115	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD08686	Antimony, Total	mg/L	0.000259	0.00100	0.100	0.130	0.126	0.0995	0.0850 to 0.115	104	70.0 to 130	3.12	20.0
BD08686	Arsenic, Total	mg/L	-0.0000342	0.000200	0.100	0.106	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	3.85	20.0
BD08686	Barium, Total	mg/L	0.0000117	0.00100	0.100	0.253	0.245	0.103	0.0850 to 0.115	105	70.0 to 130	3.21	20.0
BD08686	Beryllium, Total	mg/L	0.0000269	0.000880	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD08686	Boron, Total	mg/L	0.00273	0.0650	1.00	1.08	1.10	1.00	0.850 to 1.15	102	70.0 to 130	1.83	20.0
BD08686	Cadmium, Total	mg/L	0.0000050	0.000147	0.100	0.0974	0.0966	0.0947	0.0850 to 0.115	97.4	70.0 to 130	0.825	20.0
BD08686	Calcium, Total	mg/L	0.00173	0.152	5.00	142	132	5.16	4.25 to 5.75	240	70.0 to 130	7.30	20.0
BD08686	Chloride	mg/L	0.0389	1.00	10.0	17.9	17.7	9.32	9.00 to 11.0	86.3	80.0 to 120	1.12	20.0
BD08686	Chromium, Total	mg/L	-0.0000303	0.000440	0.100	0.103	0.102	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.976	20.0
BD08686	Cobalt, Total	mg/L	0.0000004	0.000147	0.100	0.107	0.106	0.110	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD08686	Fluoride	mg/L	-0.0167	0.125	2.50	2.72	2.73	2.53	2.25 to 2.75	102	80.0 to 120	0.367	20.0
BD08686	Iron, Total	mg/L	-0.00171	0.0176	0.2	6.72	6.14	0.209	0.170 to 0.230	215	70.0 to 130	9.02	20.0
BD08686	Lead, Total	mg/L	0.0000089	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD08686	Lithium, Total	mg/L	7.900E-05	0.0154	0.200	0.448	0.454	0.191	0.170 to 0.230	121	70.0 to 130	1.33	20.0
BD08686	Magnesium, Total	mg/L	0.000225	0.0462	5.00	31.9	32.4	4.94	4.25 to 5.75	94.0	70.0 to 130	1.56	20.0
BD08686	Manganese, Total	mg/L	0.0000633	0.00033	0.100	0.221	0.220	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.454	20.0
BD08681	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00394	0.00394	0.00394	0.00340 to 0.00460	98.5	70.0 to 130	0.00	20.0
BD08686	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.202	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD08686	Potassium, Total	mg/L	0.00262	0.367	10.0	16.2	16.0	10.4	8.50 to 11.5	100	70.0 to 130	1.24	20.0
BD08686	Selenium, Total	mg/L	0.000102	0.00100	0.100	0.102	0.0987	0.103	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD08686	Silicon, Total	mg/L	0.00108	0.0440	1.00	7.96	8.11	1.03	0.850 to 1.15	103	70.0 to 130	1.87	20.0
BD08686	Sodium, Total	mg/L	0.000560	0.0880	5.00	174	162	4.66	4.25 to 5.75	200	70.0 to 130	7.14	20.0
BD08686	Sulfate	mg/L	-0.0404	2.0	500	973	962	19.6	18.0 to 22.0	106	80.0 to 120	1.14	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 5/3/23 13:00

Customer ID:

Delivery Date: 5/4/23 10:11

Description: Miller Ash Pond Field Blank-4

Laboratory ID Number: BD08682

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD08686	Thallium, Total	mg/L	0.0000053	0.000147	0.100	0.110	0.106	0.108	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD08686	Total Organic Carbon	mg/L	0.0551	1.00	10.0	11.8	11.9	10.1		101	80.0 to 120	0.844	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 5/3/23 13:00

Customer ID:

Delivery Date: 5/4/23 10:11

Description: Miller Ash Pond Field Blank-4

Laboratory ID Number: BD08682

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08686	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.96	0.076	1.94	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD08683	Solids, Dissolved	mg/L	0.0000	25.0			1400	56.0	40.0 to 60.0			0.00	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-22D

Location Code: WMWMILAP
Collected: 5/3/23 14:55
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08683

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 14:50		1.015	0.118	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/23 07:54	5/11/23 14:50		1.015	30.6	mg/L	0.070035	0.406	
* Iron, Total	5/5/23 07:54	5/11/23 14:50		1.015	0.0683	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 14:50		1.015	0.170	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 14:50		1.015	4.15	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:50		1.015	0.0282	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:50		1	15.6	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 14:50		1.015	7.29	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 18:27		101.5	528	mg/L	4.060	40.6	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	5/4/23 13:04	5/8/23 14:57		1.015	0.0723	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/4/23 13:04	5/8/23 14:57		1.015	37.2	mg/L	0.070035	0.406	
* Iron, Dissolved	5/4/23 13:04	5/8/23 14:57		1.015	0.0172	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/4/23 13:04	5/8/23 14:57		1.015	0.0679	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 14:57		1.015	2.63	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 14:57		1.015	0.0149	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 14:57		1	21.6	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 14:57		1.015	10.1	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:41		10.15	294	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 14:21		1.015	0.000764	mg/L	0.000710	0.001015	J
* Aluminum, Total	5/5/23 07:54	5/8/23 14:21		1.015	0.0278	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 14:21		1.015	0.00258	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 14:21		1.015	0.183	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 14:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 14:21		1.015	0.000377	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 14:21		1.015	0.0166	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22D

Location Code: WMWMILAP

Collected: 5/3/23 14:55

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08683

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/30/23 12:48	5/30/23 15:42		1.015	10.5	mg/L	0.169505	0.5075	C
* Selenium, Total	5/5/23 07:54	5/8/23 14:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	0.00107	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	0.0300	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	0.00383	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	0.0965	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	0.00769	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/30/23 11:00	5/30/23 11:36		1.015	16.0	mg/L	0.169505	0.5075	C
* Selenium, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	0.000660	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 01:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 15:06	5/4/23 15:06		1	0.758	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/15/23 09:44	5/15/23 12:53		1	122	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	1400	mg/L		125	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	117	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	5.24	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/9/23 00:32	5/9/23 00:32		1	3.78	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22D

Location Code: WMWMILAP

Collected: 5/3/23 14:55

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08683

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:34	5/10/23 16:34		100	523	mg/L	50.00	200	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:51	5/10/23 14:51		1	0.334	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 12:21	5/18/23 12:21		16	277	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/3/23 14:51	5/3/23 14:51			2292.40	uS/cm			FA
pH	5/3/23 14:51	5/3/23 14:51			8.76	SU			FA
Temperature	5/3/23 14:51	5/3/23 14:51			18.93	C			FA
Turbidity	5/3/23 14:51	5/3/23 14:51			3.09	NTU			FA
Sulfide	5/3/23 14:51	5/3/23 14:51			2	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 14:55
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22D

Laboratory ID Number: BD08683

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD08684	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08686	Aluminum, Total	mg/L	0.00109	0.0198	0.100	0.115	0.115	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD08684	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0933	0.0932	0.0912	0.0850 to 0.115	93.3	70.0 to 130	0.107	20.0
BD08686	Antimony, Total	mg/L	0.000259	0.00100	0.100	0.130	0.126	0.0995	0.0850 to 0.115	104	70.0 to 130	3.12	20.0
BD08684	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.102	0.103	0.0991	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD08686	Arsenic, Total	mg/L	-0.0000342	0.000200	0.100	0.106	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	3.85	20.0
BD08684	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	102	70.0 to 130	0.673	20.0
BD08686	Barium, Total	mg/L	0.0000117	0.00100	0.100	0.253	0.245	0.103	0.0850 to 0.115	105	70.0 to 130	3.21	20.0
BD08684	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0957	0.0950	0.105	0.0850 to 0.115	95.7	70.0 to 130	0.734	20.0
BD08686	Beryllium, Total	mg/L	0.0000269	0.000880	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD08684	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	1.13	1.12	1.02	0.850 to 1.15	106	70.0 to 130	0.889	20.0
BD08686	Boron, Total	mg/L	0.00273	0.0650	1.00	1.08	1.10	1.00	0.850 to 1.15	102	70.0 to 130	1.83	20.0
BD08684	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0939	0.0948	0.0956	0.0850 to 0.115	93.9	70.0 to 130	0.954	20.0
BD08686	Cadmium, Total	mg/L	0.0000050	0.000147	0.100	0.0974	0.0966	0.0947	0.0850 to 0.115	97.4	70.0 to 130	0.825	20.0
BD08684	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	113	109	4.95	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0
BD08686	Calcium, Total	mg/L	0.00173	0.152	5.00	142	132	5.16	4.25 to 5.75	240	70.0 to 130	7.30	20.0
BD08686	Chloride	mg/L	0.0389	1.00	10.0	17.9	17.7	9.32	9.00 to 11.0	86.3	80.0 to 120	1.12	20.0
BD08684	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0987	0.100	0.0967	0.0850 to 0.115	98.7	70.0 to 130	1.31	20.0
BD08686	Chromium, Total	mg/L	-0.0000303	0.000440	0.100	0.103	0.102	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.976	20.0
BD08684	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0969	0.0977	0.0980	0.0850 to 0.115	96.9	70.0 to 130	0.822	20.0
BD08686	Cobalt, Total	mg/L	0.0000004	0.000147	0.100	0.107	0.106	0.110	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD08686	Fluoride	mg/L	-0.0167	0.125	2.50	2.72	2.73	2.53	2.25 to 2.75	102	80.0 to 120	0.367	20.0
BD08684	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.84	1.83	0.199	0.170 to 0.230	95.0	70.0 to 130	0.545	20.0
BD08686	Iron, Total	mg/L	-0.00171	0.0176	0.2	6.72	6.14	0.209	0.170 to 0.230	215	70.0 to 130	9.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 14:55
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22D

Laboratory ID Number: BD08683

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Lead, Dissolved	mg/L	0.0000169	0.000147	0.100	0.108	0.105	0.104	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08686	Lead, Total	mg/L	0.0000089	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD08684	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.272	0.269	0.199	0.170 to 0.230	103	70.0 to 130	1.11	20.0
BD08686	Lithium, Total	mg/L	7.900E-05	0.0154	0.200	0.448	0.454	0.191	0.170 to 0.230	121	70.0 to 130	1.33	20.0
BD08684	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	54.0	51.7	5.01	4.25 to 5.75	108	70.0 to 130	4.35	20.0
BD08686	Magnesium, Total	mg/L	0.000225	0.0462	5.00	31.9	32.4	4.94	4.25 to 5.75	94.0	70.0 to 130	1.56	20.0
BD08684	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.325	0.330	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.53	20.0
BD08686	Manganese, Total	mg/L	0.0000633	0.00033	0.100	0.221	0.220	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.454	20.0
BD08681	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00394	0.00394	0.00394	0.00340 to 0.00460	98.5	70.0 to 130	0.00	20.0
BD08684	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.200	0.199	0.196	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD08686	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.202	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD08683	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	25.7	27.5	10.0	8.50 to 11.5	97.0	70.0 to 130	6.77	20.0
BD08683	Potassium, Total	mg/L	0.0226	0.367	10.0	19.9	20.3	10.2	8.50 to 11.5	94.0	70.0 to 130	1.99	20.0
BD08684	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD08686	Selenium, Total	mg/L	0.000102	0.00100	0.100	0.102	0.0987	0.103	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD08684	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	15.1	15.0	1.01	0.850 to 1.15	120	70.0 to 130	0.664	20.0
BD08686	Silicon, Total	mg/L	0.00108	0.0440	1.00	7.96	8.11	1.03	0.850 to 1.15	103	70.0 to 130	1.87	20.0
BD08684	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	86.3	81.4	4.86	4.25 to 5.75	136	70.0 to 130	5.84	20.0
BD08686	Sodium, Total	mg/L	0.000560	0.0880	5.00	174	162	4.66	4.25 to 5.75	200	70.0 to 130	7.14	20.0
BD08686	Sulfate	mg/L	-0.0404	2.0	500	973	962	19.6	18.0 to 22.0	106	80.0 to 120	1.14	20.0
BD08684	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD08686	Thallium, Total	mg/L	0.0000053	0.000147	0.100	0.110	0.106	0.108	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD08686	Total Organic Carbon	mg/L	0.0551	1.00	10.0	11.8	11.9	10.1		101	80.0 to 120	0.844	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/3/23 14:55

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22D

Laboratory ID Number: BD08683

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08685	Alkalinity	mg CaCO3/L					232	52.7	45.0 to 55.0			0.432	10.0
BD08686	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.96	0.076	1.94	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD08683	Solids, Dissolved	mg/L	0.0000	25.0			1400	56.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22S

Location Code: WMWMILAP

Collected: 5/3/23 16:00

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08684

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 14:53		1.015	0.0685	mg/L	0.030000	0.1015	J
* Calcium, Total	5/5/23 07:54	5/11/23 17:43		10.15	125	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 14:53		1.015	1.69	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 14:53		1.015	0.0756	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 17:43		10.15	55.5	mg/L	0.21315	4.06	
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:53		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:53		1	30.8	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 14:53		1.015	14.4	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 17:43		10.15	89.2	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	5/4/23 13:04	5/8/23 15:00		1.015	0.0679	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/4/23 13:04	5/11/23 13:44		10.15	110	mg/L	0.70035	4.06	RA
* Iron, Dissolved	5/4/23 13:04	5/8/23 15:00		1.015	1.65	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 15:00		1.015	0.0665	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/11/23 13:44		10.15	48.6	mg/L	0.21315	4.06	RA
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 15:00		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 15:00		1	29.7	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 15:00		1.015	13.9	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:44		10.15	79.5	mg/L	0.4060	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 14:25		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 14:25		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 14:25		1.015	0.000218	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 14:25		1.015	0.0472	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 14:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 14:25		1.015	0.000250	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/23 07:54	5/8/23 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 14:25		1.015	0.228	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22S

Location Code: WMWMILAP

Collected: 5/3/23 16:00

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08684

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 14:25		1.015	1.86	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 14:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	0.000253	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	0.0471	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	0.227	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	1.85	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 01:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 15:07	5/4/23 15:07		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/15/23 09:44	5/15/23 12:53		1	230	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	715	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	230	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/9/23 00:44	5/9/23 00:44		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22S

Location Code: WMWMILAP

Collected: 5/3/23 16:00

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08684

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:38	5/10/23 16:38		25	123	mg/L	12.50	50	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:52	5/10/23 14:52		1	0.152	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 12:22	5/18/23 12:22		8	178	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/3/23 15:59	5/3/23 15:59			1204.63	uS/cm			FA
pH	5/3/23 15:59	5/3/23 15:59			6.83	SU			FA
Temperature	5/3/23 15:59	5/3/23 15:59			17.89	C			FA
Turbidity	5/3/23 15:59	5/3/23 15:59			2.52	NTU			FA
Sulfide	5/3/23 15:59	5/3/23 15:59			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 16:00
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22S

Laboratory ID Number: BD08684

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BD08684	Aluminum, Dissolved	mg/L	-0.0000067	0.0198	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD08686	Aluminum, Total	mg/L	0.00109	0.0198	0.100	0.115	0.115	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD08684	Antimony, Dissolved	mg/L	0.000395	0.00100	0.100	0.0933	0.0932	0.0912	0.0850 to 0.115	93.3	70.0 to 130	0.107	20.0
BD08686	Antimony, Total	mg/L	0.000259	0.00100	0.100	0.130	0.126	0.0995	0.0850 to 0.115	104	70.0 to 130	3.12	20.0
BD08684	Arsenic, Dissolved	mg/L	0.0000170	0.000200	0.100	0.102	0.103	0.0991	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD08686	Arsenic, Total	mg/L	-0.0000342	0.000200	0.100	0.106	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	3.85	20.0
BD08684	Barium, Dissolved	mg/L	0.0000452	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	102	70.0 to 130	0.673	20.0
BD08686	Barium, Total	mg/L	0.0000117	0.00100	0.100	0.253	0.245	0.103	0.0850 to 0.115	105	70.0 to 130	3.21	20.0
BD08684	Beryllium, Dissolved	mg/L	0.0000270	0.000880	0.100	0.0957	0.0950	0.105	0.0850 to 0.115	95.7	70.0 to 130	0.734	20.0
BD08686	Beryllium, Total	mg/L	0.0000269	0.000880	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD08684	Boron, Dissolved	mg/L	-0.00210	0.0650	1.00	1.13	1.12	1.02	0.850 to 1.15	106	70.0 to 130	0.889	20.0
BD08686	Boron, Total	mg/L	0.00273	0.0650	1.00	1.08	1.10	1.00	0.850 to 1.15	102	70.0 to 130	1.83	20.0
BD08684	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0939	0.0948	0.0956	0.0850 to 0.115	93.9	70.0 to 130	0.954	20.0
BD08686	Cadmium, Total	mg/L	0.0000050	0.000147	0.100	0.0974	0.0966	0.0947	0.0850 to 0.115	97.4	70.0 to 130	0.825	20.0
BD08684	Calcium, Dissolved	mg/L	-0.0129	0.152	5.00	113	109	4.95	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0
BD08686	Calcium, Total	mg/L	0.00173	0.152	5.00	142	132	5.16	4.25 to 5.75	240	70.0 to 130	7.30	20.0
BD08686	Chloride	mg/L	0.0389	1.00	10.0	17.9	17.7	9.32	9.00 to 11.0	86.3	80.0 to 120	1.12	20.0
BD08684	Chromium, Dissolved	mg/L	-0.0000521	0.000440	0.100	0.0987	0.100	0.0967	0.0850 to 0.115	98.7	70.0 to 130	1.31	20.0
BD08686	Chromium, Total	mg/L	-0.0000303	0.000440	0.100	0.103	0.102	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.976	20.0
BD08684	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.0969	0.0977	0.0980	0.0850 to 0.115	96.9	70.0 to 130	0.822	20.0
BD08686	Cobalt, Total	mg/L	0.0000004	0.000147	0.100	0.107	0.106	0.110	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD08686	Fluoride	mg/L	-0.0167	0.125	2.50	2.72	2.73	2.53	2.25 to 2.75	102	80.0 to 120	0.367	20.0
BD08684	Iron, Dissolved	mg/L	-0.000243	0.0176	0.2	1.84	1.83	0.199	0.170 to 0.230	95.0	70.0 to 130	0.545	20.0
BD08686	Iron, Total	mg/L	-0.00171	0.0176	0.2	6.72	6.14	0.209	0.170 to 0.230	215	70.0 to 130	9.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 16:00
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22S

Laboratory ID Number: BD08684

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08684	Lead, Dissolved	mg/L	0.000169	0.000147	0.100	0.108	0.105	0.104	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08686	Lead, Total	mg/L	0.000089	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD08684	Lithium, Dissolved	mg/L	0.000579	0.0154	0.200	0.272	0.269	0.199	0.170 to 0.230	103	70.0 to 130	1.11	20.0
BD08686	Lithium, Total	mg/L	7.900E-05	0.0154	0.200	0.448	0.454	0.191	0.170 to 0.230	121	70.0 to 130	1.33	20.0
BD08684	Magnesium, Dissolved	mg/L	0.00114	0.0462	5.00	54.0	51.7	5.01	4.25 to 5.75	108	70.0 to 130	4.35	20.0
BD08686	Magnesium, Total	mg/L	0.000225	0.0462	5.00	31.9	32.4	4.94	4.25 to 5.75	94.0	70.0 to 130	1.56	20.0
BD08684	Manganese, Dissolved	mg/L	0.0000293	0.00033	0.100	0.325	0.330	0.100	0.0850 to 0.115	98.0	70.0 to 130	1.53	20.0
BD08686	Manganese, Total	mg/L	0.0000633	0.00033	0.100	0.221	0.220	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.454	20.0
BD08681	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00394	0.00394	0.00394	0.00340 to 0.00460	98.5	70.0 to 130	0.00	20.0
BD08684	Molybdenum, Dissolved	mg/L	0.00190	0.0100	0.2	0.200	0.199	0.196	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD08686	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.202	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD08684	Potassium, Dissolved	mg/L	0.00216	0.367	10.0	11.4	11.7	9.71	8.50 to 11.5	95.5	70.0 to 130	2.60	20.0
BD08686	Potassium, Total	mg/L	0.00262	0.367	10.0	16.2	16.0	10.4	8.50 to 11.5	100	70.0 to 130	1.24	20.0
BD08684	Selenium, Dissolved	mg/L	0.000194	0.00100	0.100	0.105	0.106	0.106	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD08686	Selenium, Total	mg/L	0.000102	0.00100	0.100	0.102	0.0987	0.103	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD08684	Silicon, Dissolved	mg/L	0.000502	0.0440	1.00	15.1	15.0	1.01	0.850 to 1.15	120	70.0 to 130	0.664	20.0
BD08686	Silicon, Total	mg/L	0.00108	0.0440	1.00	7.96	8.11	1.03	0.850 to 1.15	103	70.0 to 130	1.87	20.0
BD08684	Sodium, Dissolved	mg/L	0.00469	0.0880	5.00	86.3	81.4	4.86	4.25 to 5.75	136	70.0 to 130	5.84	20.0
BD08686	Sodium, Total	mg/L	0.000560	0.0880	5.00	174	162	4.66	4.25 to 5.75	200	70.0 to 130	7.14	20.0
BD08686	Sulfate	mg/L	-0.0404	2.0	500	973	962	19.6	18.0 to 22.0	106	80.0 to 120	1.14	20.0
BD08684	Thallium, Dissolved	mg/L	-0.0000933	0.000147	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD08686	Thallium, Total	mg/L	0.0000053	0.000147	0.100	0.110	0.106	0.108	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD08686	Total Organic Carbon	mg/L	0.0551	1.00	10.0	11.8	11.9	10.1		101	80.0 to 120	0.844	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/3/23 16:00

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22S

Laboratory ID Number: BD08684

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08685	Alkalinity	mg CaCO3/L					232	52.7	45.0 to 55.0			0.432	10.0
BD08686	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.96	0.076	1.94	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD08686	Solids, Dissolved	mg/L	0.0000	25.0			924	56.0	40.0 to 60.0			0.434	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22S Dup

Location Code: WMWMILAP

Collected: 5/3/23 16:00

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08685

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 14:57		1.015	0.0703	mg/L	0.030000	0.1015	J
* Calcium, Total	5/5/23 07:54	5/11/23 17:46		10.15	117	mg/L	0.70035	4.06	
* Iron, Total	5/5/23 07:54	5/11/23 14:57		1.015	1.73	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/23 07:54	5/11/23 14:57		1.015	0.0777	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 17:46		10.15	50.8	mg/L	0.21315	4.06	
* Molybdenum, Total	5/5/23 07:54	5/11/23 14:57		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 14:57		1	31.5	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 14:57		1.015	14.7	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 17:46		10.15	81.9	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	5/4/23 13:04	5/8/23 15:23		1.015	0.0678	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/4/23 13:04	5/11/23 13:54		10.15	123	mg/L	0.70035	4.06	
* Iron, Dissolved	5/4/23 13:04	5/8/23 15:23		1.015	1.65	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 15:23		1.015	0.0660	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/11/23 13:54		10.15	55.6	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 15:23		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 15:23		1	30.2	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 15:23		1.015	14.1	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:54		10.15	90.7	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 14:28		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/5/23 07:54	5/8/23 14:28		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/5/23 07:54	5/8/23 14:28		1.015	0.000292	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 14:28		1.015	0.0501	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 14:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 14:28		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/23 07:54	5/8/23 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/23 07:54	5/8/23 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 14:28		1.015	0.228	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22S Dup

Location Code: WMWMILAP

Collected: 5/3/23 16:00

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08685

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 14:28		1.015	1.88	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 14:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	0.000174	mg/L	0.000112	0.000203	J
* Barium, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	0.0453	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	0.226	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	1.85	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 01:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 15:08	5/4/23 15:08		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/15/23 09:44	5/15/23 12:53		1	231	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	736	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	231	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/15/23 09:44	5/15/23 12:53		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/9/23 00:59	5/9/23 00:59		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22S Dup

Location Code: WMWMILAP
Collected: 5/3/23 16:00
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08685

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:40	5/10/23 16:40		25	125	mg/L	12.50	50	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:53	5/10/23 14:53		1	0.176	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 12:23	5/18/23 12:23		8	177	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/3/23 15:59	5/3/23 15:59			1204.63	uS/cm			FA
pH	5/3/23 15:59	5/3/23 15:59			6.83	SU			FA
Temperature	5/3/23 15:59	5/3/23 15:59			17.89	C			FA
Turbidity	5/3/23 15:59	5/3/23 15:59			2.52	NTU			FA
Sulfide	5/3/23 15:59	5/3/23 15:59			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 16:00
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22S Dup

Laboratory ID Number: BD08685

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD08686	Aluminum, Dissolved	mg/L	0.000106	0.0198	0.100	0.108	0.105	0.106	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08686	Aluminum, Total	mg/L	0.00109	0.0198	0.100	0.115	0.115	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD08686	Antimony, Dissolved	mg/L	0.000366	0.00100	0.100	0.118	0.118	0.0925	0.0850 to 0.115	95.4	70.0 to 130	0.00	20.0
BD08686	Antimony, Total	mg/L	0.000259	0.00100	0.100	0.130	0.126	0.0995	0.0850 to 0.115	104	70.0 to 130	3.12	20.0
BD08686	Arsenic, Dissolved	mg/L	0.0000101	0.000200	0.100	0.104	0.104	0.0993	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08686	Arsenic, Total	mg/L	-0.0000342	0.000200	0.100	0.106	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	3.85	20.0
BD08686	Barium, Dissolved	mg/L	0.0000039	0.00100	0.100	0.244	0.240	0.0986	0.0850 to 0.115	103	70.0 to 130	1.65	20.0
BD08686	Barium, Total	mg/L	0.0000117	0.00100	0.100	0.253	0.245	0.103	0.0850 to 0.115	105	70.0 to 130	3.21	20.0
BD08686	Beryllium, Dissolved	mg/L	0.0000156	0.000880	0.100	0.0954	0.0954	0.101	0.0850 to 0.115	95.4	70.0 to 130	0.00	20.0
BD08686	Beryllium, Total	mg/L	0.0000269	0.000880	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD08686	Boron, Dissolved	mg/L	-0.00184	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD08686	Boron, Total	mg/L	0.00273	0.0650	1.00	1.08	1.10	1.00	0.850 to 1.15	102	70.0 to 130	1.83	20.0
BD08686	Cadmium, Dissolved	mg/L	0.0000191	0.000147	0.100	0.0936	0.0955	0.0959	0.0850 to 0.115	93.6	70.0 to 130	2.01	20.0
BD08686	Cadmium, Total	mg/L	0.0000050	0.000147	0.100	0.0974	0.0966	0.0947	0.0850 to 0.115	97.4	70.0 to 130	0.825	20.0
BD08686	Calcium, Dissolved	mg/L	-0.00408	0.152	5.00	144	141	4.78	4.25 to 5.75	320	70.0 to 130	2.11	20.0
BD08686	Calcium, Total	mg/L	0.00173	0.152	5.00	142	132	5.16	4.25 to 5.75	240	70.0 to 130	7.30	20.0
BD08686	Chloride	mg/L	0.0389	1.00	10.0	17.9	17.7	9.32	9.00 to 11.0	86.3	80.0 to 120	1.12	20.0
BD08686	Chromium, Dissolved	mg/L	-0.0000317	0.000440	0.100	0.0992	0.0973	0.0963	0.0850 to 0.115	99.2	70.0 to 130	1.93	20.0
BD08686	Chromium, Total	mg/L	-0.0000303	0.000440	0.100	0.103	0.102	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.976	20.0
BD08686	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.100	0.0981	0.0976	0.0850 to 0.115	99.7	70.0 to 130	1.92	20.0
BD08686	Cobalt, Total	mg/L	0.0000004	0.000147	0.100	0.107	0.106	0.110	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD08686	Fluoride	mg/L	-0.0167	0.125	2.50	2.72	2.73	2.53	2.25 to 2.75	102	80.0 to 120	0.367	20.0
BD08686	Iron, Dissolved	mg/L	-0.000162	0.0176	0.2	2.71	2.70	0.198	0.170 to 0.230	100	70.0 to 130	0.370	20.0
BD08686	Iron, Total	mg/L	-0.00171	0.0176	0.2	6.72	6.14	0.209	0.170 to 0.230	215	70.0 to 130	9.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/3/23 16:00
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22S Dup

Laboratory ID Number: BD08685

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08686	Lead, Dissolved	mg/L	0.000085	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD08686	Lead, Total	mg/L	0.000089	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD08686	Lithium, Dissolved	mg/L	0.00102	0.0154	0.200	0.392	0.385	0.200	0.170 to 0.230	108	70.0 to 130	1.80	20.0
BD08686	Lithium, Total	mg/L	7.900E-05	0.0154	0.200	0.448	0.454	0.191	0.170 to 0.230	121	70.0 to 130	1.33	20.0
BD08686	Magnesium, Dissolved	mg/L	0.0105	0.0462	5.00	34.7	34.5	4.95	4.25 to 5.75	104	70.0 to 130	0.578	20.0
BD08686	Magnesium, Total	mg/L	0.000225	0.0462	5.00	31.9	32.4	4.94	4.25 to 5.75	94.0	70.0 to 130	1.56	20.0
BD08686	Manganese, Dissolved	mg/L	0.0000301	0.00033	0.100	0.239	0.232	0.101	0.0850 to 0.115	103	70.0 to 130	2.97	20.0
BD08686	Manganese, Total	mg/L	0.0000633	0.00033	0.100	0.221	0.220	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.454	20.0
BD08681	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00394	0.00394	0.00394	0.00340 to 0.00460	98.5	70.0 to 130	0.00	20.0
BD08686	Molybdenum, Dissolved	mg/L	0.00171	0.0100	0.2	0.203	0.204	0.195	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD08686	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.202	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD08686	Potassium, Dissolved	mg/L	0.00906	0.367	10.0	15.6	15.5	9.80	8.50 to 11.5	96.3	70.0 to 130	0.643	20.0
BD08686	Potassium, Total	mg/L	0.00262	0.367	10.0	16.2	16.0	10.4	8.50 to 11.5	100	70.0 to 130	1.24	20.0
BD08686	Selenium, Dissolved	mg/L	0.000184	0.00100	0.100	0.104	0.106	0.104	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD08686	Selenium, Total	mg/L	0.000102	0.00100	0.100	0.102	0.0987	0.103	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD08686	Silicon, Dissolved	mg/L	0.000329	0.0440	1.00	7.19	7.19	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08686	Silicon, Total	mg/L	0.00108	0.0440	1.00	7.96	8.11	1.03	0.850 to 1.15	103	70.0 to 130	1.87	20.0
BD08686	Sodium, Dissolved	mg/L	0.0251	0.0880	5.00	182	176	4.87	4.25 to 5.75	260	70.0 to 130	3.35	20.0
BD08686	Sodium, Total	mg/L	0.000560	0.0880	5.00	174	162	4.66	4.25 to 5.75	200	70.0 to 130	7.14	20.0
BD08686	Sulfate	mg/L	-0.0404	2.0	500	973	962	19.6	18.0 to 22.0	106	80.0 to 120	1.14	20.0
BD08686	Thallium, Dissolved	mg/L	-0.0000928	0.000147	0.100	0.104	0.103	0.105	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08686	Thallium, Total	mg/L	0.0000053	0.000147	0.100	0.110	0.106	0.108	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD08686	Total Organic Carbon	mg/L	0.0551	1.00	10.0	11.8	11.9	10.1		101	80.0 to 120	0.844	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/3/23 16:00

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-22S Dup

Laboratory ID Number: BD08685

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD08685	Alkalinity	mg CaCO3/L					232	52.7	45.0 to 55.0			0.432	10.0
BD08686	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.96	0.076	1.94	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD08686	Solids, Dissolved	mg/L	0.0000	25.0			924	56.0	40.0 to 60.0			0.434	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-1

Location Code: WMWMILAP
Collected: 5/2/23 13:10
Customer ID:
Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08686

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	5/5/23 07:54	5/11/23 15:00		1.015	0.0572	mg/L	0.030000	0.1015	J
* Calcium, Total	5/5/23 07:54	5/11/23 17:49		10.15	130	mg/L	0.70035	4.06	RA
* Iron, Total	5/5/23 07:54	5/11/23 17:49		10.15	6.29	mg/L	0.08120	0.406	RA
* Lithium, Total	5/5/23 07:54	5/11/23 15:00		1.015	0.206	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/23 07:54	5/11/23 15:00		1.015	27.2	mg/L	0.021315	0.406	
* Molybdenum, Total	5/5/23 07:54	5/11/23 15:00		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/5/23 07:54	5/11/23 15:00		1	14.8	mg/L			
* Silicon, Total	5/5/23 07:54	5/11/23 15:00		1.015	6.93	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/23 07:54	5/11/23 17:49		10.15	164	mg/L	0.4060	4.06	RA
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	5/4/23 13:04	5/8/23 15:26		1.015	0.0534	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/4/23 13:04	5/11/23 13:57		10.15	128	mg/L	0.70035	4.06	RA
* Iron, Dissolved	5/4/23 13:04	5/8/23 15:26		1.015	2.51	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/4/23 13:04	5/8/23 15:26		1.015	0.177	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/4/23 13:04	5/8/23 15:26		1.015	29.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/4/23 13:04	5/8/23 15:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/4/23 13:04	5/8/23 15:26		1	13.2	mg/L			
* Silicon, Dissolved	5/4/23 13:04	5/8/23 15:26		1.015	6.17	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/4/23 13:04	5/11/23 13:57		10.15	169	mg/L	0.4060	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	5/5/23 07:54	5/8/23 14:32		1.015	0.0255	mg/L	0.000710	0.001015	
* Aluminum, Total	5/5/23 07:54	5/8/23 14:32		1.015	0.0130	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/5/23 07:54	5/8/23 14:32		1.015	0.00202	mg/L	0.000112	0.000203	
* Barium, Total	5/5/23 07:54	5/8/23 14:32		1.015	0.148	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/23 07:54	5/8/23 14:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/23 07:54	5/8/23 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/23 07:54	5/8/23 14:32		1.015	0.00420	mg/L	0.000203	0.001015	
* Cobalt, Total	5/5/23 07:54	5/8/23 14:32		1.015	0.000545	mg/L	0.000068	0.000203	
* Lead, Total	5/5/23 07:54	5/8/23 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/23 07:54	5/8/23 14:32		1.015	0.122	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-1

Location Code: WMWMILAP

Collected: 5/2/23 13:10

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08686

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/5/23 07:54	5/8/23 14:32		1.015	6.20	mg/L	0.169505	0.5075	
* Selenium, Total	5/5/23 07:54	5/8/23 14:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/23 07:54	5/8/23 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	0.0226	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	0.00127	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	0.141	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	0.000289	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	0.136	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	5.97	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/4/23 13:04	5/4/23 18:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	5/4/23 18:23	5/5/23 01:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	5/4/23 15:09	5/4/23 15:09		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity	5/11/23 10:16	5/11/23 14:12		1	207	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/5/23 10:53	5/10/23 13:38		1	920	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	205	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/11/23 10:16	5/11/23 14:12		1	1.93	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	5/9/23 01:17	5/9/23 01:17		1	1.71	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-1

Location Code: WMWMILAP

Collected: 5/2/23 13:10

Customer ID:

Submittal Date: 5/4/23 10:09

Laboratory ID Number: BD08686

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/10/23 16:30	5/10/23 16:30		1	9.27	mg/L	0.50	2	
Analytical Method: SM4500F G 2017		Analyst: CES							
* Fluoride	5/10/23 14:54	5/10/23 14:54		1	0.181	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	5/18/23 12:25	5/18/23 12:25		25	445	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/2/23 13:07	5/2/23 13:07			1187.38	uS/cm			FA
pH	5/2/23 13:07	5/2/23 13:07			8.60	SU			FA
Temperature	5/2/23 13:07	5/2/23 13:07			18.33	C			FA
Turbidity	5/2/23 13:07	5/2/23 13:07			6.16	NTU			FA
Sulfide	5/2/23 13:07	5/2/23 13:07			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 5/2/23 13:10
Customer ID:
Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-1

Laboratory ID Number: BD08686

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD08686	Aluminum, Dissolved	mg/L	0.000106	0.0198	0.100	0.108	0.105	0.106	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD08686	Aluminum, Total	mg/L	0.00109	0.0198	0.100	0.115	0.115	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD08686	Antimony, Dissolved	mg/L	0.000366	0.00100	0.100	0.118	0.118	0.0925	0.0850 to 0.115	95.4	70.0 to 130	0.00	20.0
BD08686	Antimony, Total	mg/L	0.000259	0.00100	0.100	0.130	0.126	0.0995	0.0850 to 0.115	104	70.0 to 130	3.12	20.0
BD08686	Arsenic, Dissolved	mg/L	0.0000101	0.000200	0.100	0.104	0.104	0.0993	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD08686	Arsenic, Total	mg/L	-0.0000342	0.000200	0.100	0.106	0.102	0.102	0.0850 to 0.115	104	70.0 to 130	3.85	20.0
BD08686	Barium, Dissolved	mg/L	0.0000039	0.00100	0.100	0.244	0.240	0.0986	0.0850 to 0.115	103	70.0 to 130	1.65	20.0
BD08686	Barium, Total	mg/L	0.0000117	0.00100	0.100	0.253	0.245	0.103	0.0850 to 0.115	105	70.0 to 130	3.21	20.0
BD08686	Beryllium, Dissolved	mg/L	0.0000156	0.000880	0.100	0.0954	0.0954	0.101	0.0850 to 0.115	95.4	70.0 to 130	0.00	20.0
BD08686	Beryllium, Total	mg/L	0.0000269	0.000880	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD08686	Boron, Dissolved	mg/L	-0.00184	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD08686	Boron, Total	mg/L	0.00273	0.0650	1.00	1.08	1.10	1.00	0.850 to 1.15	102	70.0 to 130	1.83	20.0
BD08686	Cadmium, Dissolved	mg/L	0.0000191	0.000147	0.100	0.0936	0.0955	0.0959	0.0850 to 0.115	93.6	70.0 to 130	2.01	20.0
BD08686	Cadmium, Total	mg/L	0.0000050	0.000147	0.100	0.0974	0.0966	0.0947	0.0850 to 0.115	97.4	70.0 to 130	0.825	20.0
BD08686	Calcium, Dissolved	mg/L	-0.00408	0.152	5.00	144	141	4.78	4.25 to 5.75	320	70.0 to 130	2.11	20.0
BD08686	Calcium, Total	mg/L	0.00173	0.152	5.00	142	132	5.16	4.25 to 5.75	240	70.0 to 130	7.30	20.0
BD08686	Chloride	mg/L	0.0389	1.00	10.0	17.9	17.7	9.32	9.00 to 11.0	86.3	80.0 to 120	1.12	20.0
BD08686	Chromium, Dissolved	mg/L	-0.0000317	0.000440	0.100	0.0992	0.0973	0.0963	0.0850 to 0.115	99.2	70.0 to 130	1.93	20.0
BD08686	Chromium, Total	mg/L	-0.0000303	0.000440	0.100	0.103	0.102	0.102	0.0850 to 0.115	98.8	70.0 to 130	0.976	20.0
BD08686	Cobalt, Dissolved	mg/L	-0.0000788	0.000147	0.100	0.100	0.0981	0.0976	0.0850 to 0.115	99.7	70.0 to 130	1.92	20.0
BD08686	Cobalt, Total	mg/L	0.0000004	0.000147	0.100	0.107	0.106	0.110	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD08686	Fluoride	mg/L	-0.0167	0.125	2.50	2.72	2.73	2.53	2.25 to 2.75	102	80.0 to 120	0.367	20.0
BD08686	Iron, Dissolved	mg/L	-0.000162	0.0176	0.2	2.71	2.70	0.198	0.170 to 0.230	100	70.0 to 130	0.370	20.0
BD08686	Iron, Total	mg/L	-0.00171	0.0176	0.2	6.72	6.14	0.209	0.170 to 0.230	215	70.0 to 130	9.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 13:10

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-1

Laboratory ID Number: BD08686

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD08686	Lead, Dissolved	mg/L	0.000085	0.000147	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD08686	Lead, Total	mg/L	0.000089	0.000147	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD08686	Lithium, Dissolved	mg/L	0.00102	0.0154	0.200	0.392	0.385	0.200	0.170 to 0.230	108	70.0 to 130	1.80	20.0
BD08686	Lithium, Total	mg/L	7.900E-05	0.0154	0.200	0.448	0.454	0.191	0.170 to 0.230	121	70.0 to 130	1.33	20.0
BD08686	Magnesium, Dissolved	mg/L	0.0105	0.0462	5.00	34.7	34.5	4.95	4.25 to 5.75	104	70.0 to 130	0.578	20.0
BD08686	Magnesium, Total	mg/L	0.000225	0.0462	5.00	31.9	32.4	4.94	4.25 to 5.75	94.0	70.0 to 130	1.56	20.0
BD08686	Manganese, Dissolved	mg/L	0.0000301	0.00033	0.100	0.239	0.232	0.101	0.0850 to 0.115	103	70.0 to 130	2.97	20.0
BD08686	Manganese, Total	mg/L	0.0000633	0.00033	0.100	0.221	0.220	0.105	0.0850 to 0.115	99.0	70.0 to 130	0.454	20.0
BD08681	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00394	0.00394	0.00394	0.00340 to 0.00460	98.5	70.0 to 130	0.00	20.0
BD08686	Molybdenum, Dissolved	mg/L	0.00171	0.0100	0.2	0.203	0.204	0.195	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD08686	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.202	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD08686	Potassium, Dissolved	mg/L	0.00906	0.367	10.0	15.6	15.5	9.80	8.50 to 11.5	96.3	70.0 to 130	0.643	20.0
BD08686	Potassium, Total	mg/L	0.00262	0.367	10.0	16.2	16.0	10.4	8.50 to 11.5	100	70.0 to 130	1.24	20.0
BD08686	Selenium, Dissolved	mg/L	0.000184	0.00100	0.100	0.104	0.106	0.104	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD08686	Selenium, Total	mg/L	0.000102	0.00100	0.100	0.102	0.0987	0.103	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD08686	Silicon, Dissolved	mg/L	0.000329	0.0440	1.00	7.19	7.19	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD08686	Silicon, Total	mg/L	0.00108	0.0440	1.00	7.96	8.11	1.03	0.850 to 1.15	103	70.0 to 130	1.87	20.0
BD08686	Sodium, Dissolved	mg/L	0.0251	0.0880	5.00	182	176	4.87	4.25 to 5.75	260	70.0 to 130	3.35	20.0
BD08686	Sodium, Total	mg/L	0.000560	0.0880	5.00	174	162	4.66	4.25 to 5.75	200	70.0 to 130	7.14	20.0
BD08686	Sulfate	mg/L	-0.0404	2.0	500	973	962	19.6	18.0 to 22.0	106	80.0 to 120	1.14	20.0
BD08686	Thallium, Dissolved	mg/L	-0.0000928	0.000147	0.100	0.104	0.103	0.105	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD08686	Thallium, Total	mg/L	0.0000053	0.000147	0.100	0.110	0.106	0.108	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD08686	Total Organic Carbon	mg/L	0.0551	1.00	10.0	11.8	11.9	10.1		101	80.0 to 120	0.844	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 5/2/23 13:10

Customer ID:

Delivery Date: 5/4/23 10:09

Description: Miller Ash Pond - MW-1

Laboratory ID Number: BD08686

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD08686	Alkalinity	mg CaCO3/L					208	47.6	45.0 to 55.0			0.482	10.0
BD08686	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.96	0.076	1.94	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD08686	Solids, Dissolved	mg/L	0.0000	25.0			924	56.0	40.0 to 60.0			0.434	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Definitions

Project Number: WMWMILAP_1408

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
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
C	Analyte was verified by re-analysis.
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.
R	Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification 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

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		Dallas Gentry
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-37H	04/18/2023	09:23	6	Groundwater		BD07879	<input checked="" type="checkbox"/>
MW-35H	04/18/2023	10:48	6	Groundwater		BD07880	<input checked="" type="checkbox"/>
MW-35H dup	04/18/2023	10:48	6	Sample Duplicate		BD07881	<input checked="" type="checkbox"/>
MW-17H	04/19/2023	10:03	6	Groundwater		BD07882	<input checked="" type="checkbox"/>
MW-20H	04/19/2023	12:16	6	Groundwater		BD07883	<input checked="" type="checkbox"/>
MW-20HS	04/19/2023	13:36	6	Groundwater		BD07884	<input checked="" type="checkbox"/>
MW-20HS dup	04/19/2023	13:36	6	Sample Duplicate		BD07885	<input checked="" type="checkbox"/>
MW-32H	04/19/2023	15:18	6	Groundwater		BD07886	<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Brian Cotton</i>	04/20/2023 09:05

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.1 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	TJ Daugherty	Requested By	Greg Dyer
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-13SR	04/18/2023	11:40	6	Groundwater		BD07887	<input checked="" type="checkbox"/>
MW-13DR	04/18/2023	13:55	6	Groundwater		BD07888	<input checked="" type="checkbox"/>
MW-16	04/19/2023	10:05	6	Groundwater		BD07889	<input checked="" type="checkbox"/>
MW-15	04/19/2023	11:55	6	Groundwater		BD07890	<input checked="" type="checkbox"/>
MW-15 Dup	04/19/2023	11:55	6	Sample Duplicate		BD07891	<input checked="" type="checkbox"/>
MW-28H	04/19/2023	14:25	6	Groundwater		BD07892	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>BushCaton</i>	04/20/2023 09:10

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.1 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-7DR	04/24/2023	10:56	6	Groundwater		BD08188	<input checked="" type="checkbox"/>
FB-2	04/24/2023	11:25	5	Field Blank		BD08189	<input checked="" type="checkbox"/>
MW-7SR	04/24/2023	12:08	6	Groundwater		BD08190	<input checked="" type="checkbox"/>
MW-6V	04/24/2023	14:42	6	Groundwater		BD08191	<input checked="" type="checkbox"/>
PZ-5	04/25/2023	10:27	6	Groundwater		BD08192	<input checked="" type="checkbox"/>
MW-5	04/25/2023	11:17	6	Groundwater		BD08193	<input checked="" type="checkbox"/>
MW-5 dup	04/25/2023	11:17	6	Sample Duplicate		BD08194	<input checked="" type="checkbox"/>
MW-6	04/25/2023	13:48	6	Groundwater		BD08195	<input checked="" type="checkbox"/>
MW-33H	04/25/2023	14:57	6	Groundwater		BD08196	<input checked="" type="checkbox"/>
FB-3	04/25/2023	15:40	5	Field Blank		BD08197	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.04.27 10:10:09 -05'00'</small>	04/27/2023 10:10

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.0 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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 TJ Daugherty		Requested By
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments Submitted to shipping lab @ 1500

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-31H	04/24/2023	14:30	6	Groundwater		BD08198	<input checked="" type="checkbox"/>
MW-36HR	04/25/2023	12:48	6	Groundwater		BD08199	<input checked="" type="checkbox"/>
MW-27HR	04/25/2023	14:42	6	Groundwater		BD08200	<input checked="" type="checkbox"/>
FB-1	04/25/2023	15:35	5	Field Blank		BD08201	<input checked="" type="checkbox"/>
MW-30H	04/26/2023	10:30	6	Groundwater		BD08202	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.04.27 10:10:23 -05'00'</small>	04/27/2023 10:10

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.1 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: Relinquished to GSC Building 8 shipping lab 05/04/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-23A	05/01/2023	12:03	6	Groundwater		BD08661	<input checked="" type="checkbox"/>
MW-23	05/01/2023	14:23	6	Groundwater		BD08662	<input checked="" type="checkbox"/>
EB-1	05/01/2023	15:35	5	Equipment Blank		BD08663	<input checked="" type="checkbox"/>
MW-4V	05/02/2023	08:36	6	Groundwater		BD08664	<input checked="" type="checkbox"/>
MW-4	05/02/2023	09:39	6	Groundwater		BD08665	<input checked="" type="checkbox"/>
MW-3S	05/02/2023	10:50	6	Groundwater		BD08666	<input checked="" type="checkbox"/>
MW-3D	05/02/2023	11:57	6	Groundwater		BD08667	<input checked="" type="checkbox"/>
MW-14R	05/02/2023	13:24	6	Groundwater		BD08668	<input checked="" type="checkbox"/>
MW-21	05/02/2023	15:03	6	Groundwater		BD08669	<input checked="" type="checkbox"/>
FB-5	05/02/2023	16:00	5	Field Blank		BD08670	<input checked="" type="checkbox"/>
MW-10	05/03/2023	08:17	6	Groundwater		BD08671	<input checked="" type="checkbox"/>
MW-12	05/03/2023	10:01	6	Groundwater		BD08672	<input checked="" type="checkbox"/>
MW-9DR	05/03/2023	11:34	6	Groundwater		BD08673	<input checked="" type="checkbox"/>
MW-9SR	05/03/2023	12:47	6	Groundwater		BD08674	<input checked="" type="checkbox"/>
EB-2	05/03/2023	13:30	5	Equipment Blank		BD08675	<input checked="" type="checkbox"/>
MW-22I	05/03/2023	15:28	6	Groundwater		BD08676	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.05.04 09:58:17 -05'00'</small>	05/04/2023 09:58

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.0 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-1	05/02/2023	13:10	1	Groundwater		BD08686	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Dustin Brooks</i>	05/04/2023 08:47

SmarTroll ID	7586-41446-5-5	Cooler Temp	1.3 C
Turbidity ID	9830-57039-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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		TJ Daugherty
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-19HA	05/01/2023	14:23	6	Groundwater		BD08677	<input checked="" type="checkbox"/>
MW-34H	05/02/2023	10:25	6	Groundwater		BD08678	<input checked="" type="checkbox"/>
MW-18H	05/02/2023	11:55	6	Groundwater		BD08679	<input checked="" type="checkbox"/>
MW-2	05/02/2023	13:52	6	Groundwater		BD08680	<input checked="" type="checkbox"/>
MW-11	05/03/2023	10:51	6	Groundwater		BD08681	<input checked="" type="checkbox"/>
FB-4	05/03/2023	13:00	5	Field Blank		BD08682	<input checked="" type="checkbox"/>
MW-22D	05/03/2023	14:55	6	Groundwater		BD08683	<input checked="" type="checkbox"/>
MW-22S	05/03/2023	16:00	6	Groundwater		BD08684	<input checked="" type="checkbox"/>
MW-22S Dup	05/03/2023	16:00	6	Sample Duplicate		BD08685	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		05/04/2023 08:47

SmarTroll ID	7586-41445-5-4	Cooler Temp	0.8 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		Location	Miller 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-37H

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-37H	04/18/2023	09:23	3	Groundwater		BD07893	<input checked="" type="checkbox"/>
MW-35H	04/18/2023	10:48	1	Groundwater		BD07894	<input checked="" type="checkbox"/>
MW-35H dup	04/18/2023	10:48	1	Sample Duplicate		BD07895	<input checked="" type="checkbox"/>
MW-17H	04/19/2023	10:03	1	Groundwater		BD07896	<input checked="" type="checkbox"/>
MW-20H	04/19/2023	12:16	1	Groundwater		BD07897	<input checked="" type="checkbox"/>
MW-20HS	04/19/2023	13:36	1	Groundwater		BD07898	<input checked="" type="checkbox"/>
MW-20HS dup	04/19/2023	13:36	1	Sample Duplicate		BD07899	<input checked="" type="checkbox"/>
MW-32H	04/19/2023	15:18	1	Groundwater		BD07900	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Bushnell</i>	04/20/2023 09:05

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab


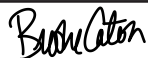
Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Miller 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-16

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-13SR	04/18/2023	11:40	1	Groundwater		BD07901	<input checked="" type="checkbox"/>
MW-13DR	04/18/2023	13:55	1	Groundwater		BD07902	<input checked="" type="checkbox"/>
MW-16	04/19/2023	10:05	3	Groundwater		BD07903	<input checked="" type="checkbox"/>
MW-15	04/19/2023	11:55	1	Groundwater		BD07904	<input checked="" type="checkbox"/>
MW-15 Dup	04/19/2023	11:55	1	Sample Duplicate		BD07905	<input checked="" type="checkbox"/>
MW-28H	04/19/2023	14:25	1	Groundwater		BD07906	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		04/20/2023 09:10

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		Location	Miller 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-7SR

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-7DR	04/24/2023	10:56	1	Groundwater		BD08203	<input checked="" type="checkbox"/>
FB-2	04/24/2023	11:25	1	Field Blank		BD08204	<input checked="" type="checkbox"/>
MW-7SR	04/24/2023	12:08	3	Groundwater		BD08205	<input checked="" type="checkbox"/>
MW-6V	04/24/2023	14:42	1	Groundwater		BD08206	<input checked="" type="checkbox"/>
PZ-5	04/25/2023	10:27	1	Groundwater		BD08207	<input checked="" type="checkbox"/>
MW-5	04/25/2023	11:17	1	Groundwater		BD08208	<input checked="" type="checkbox"/>
MW-5 dup	04/25/2023	11:17	1	Sample Duplicate		BD08209	<input checked="" type="checkbox"/>
MW-6	04/25/2023	13:48	1	Groundwater		BD08210	<input checked="" type="checkbox"/>
MW-33H	04/25/2023	14:57	1	Groundwater		BD08211	<input checked="" type="checkbox"/>
FB-3	04/25/2023	15:40	1	Field Blank		BD08212	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.04.27 10:10:36 -05'00'</small>	04/27/2023 10:10

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	TJ Daugherty	Requested By	Greg Dyer
		Location	Miller 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	Submitted to shipping lab @ 1500
----------	----------------------------------

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-31H	04/24/2023	14:30	1	Groundwater		BD08213	<input checked="" type="checkbox"/>
MW-36HR	04/25/2023	12:48	1	Groundwater		BD08214	<input checked="" type="checkbox"/>
MW-27HR	04/25/2023	14:42	1	Groundwater		BD08215	<input checked="" type="checkbox"/>
FB-1	04/25/2023	15:35	1	Field Blank		BD08216	<input checked="" type="checkbox"/>
MW-30H	04/26/2023	10:30	1	Groundwater		BD08217	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.04.27 10:10:48 -05'00'</small>	04/27/2023 10:10

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Miller 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 to GSC Building 8 shipping lab on 05/04/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-23A	05/01/2023	12:03	1	Groundwater		BD08687	<input checked="" type="checkbox"/>
MW-23	05/01/2023	14:23	1	Groundwater		BD08688	<input checked="" type="checkbox"/>
EB-1	05/01/2023	15:35	1	Equipment Blank		BD08689	<input checked="" type="checkbox"/>
MW-4V	05/02/2023	08:36	1	Groundwater		BD08690	<input checked="" type="checkbox"/>
MW-4	05/02/2023	09:39	1	Groundwater		BD08691	<input checked="" type="checkbox"/>
MW-3S	05/02/2023	10:50	1	Groundwater		BD08692	<input checked="" type="checkbox"/>
MW-3D	05/02/2023	11:57	1	Groundwater		BD08693	<input checked="" type="checkbox"/>
MW-14R	05/02/2023	13:24	1	Groundwater		BD08694	<input checked="" type="checkbox"/>
MW-21	05/02/2023	15:03	1	Groundwater		BD08695	<input checked="" type="checkbox"/>
FB-5	05/02/2023	16:00	1	Field Blank		BD08696	<input checked="" type="checkbox"/>
MW-10	05/03/2023	08:17	1	Groundwater		BD08697	<input checked="" type="checkbox"/>
MW-12	05/03/2023	10:01	1	Groundwater		BD08698	<input checked="" type="checkbox"/>
MW-9DR	05/03/2023	11:34	1	Groundwater		BD08699	<input checked="" type="checkbox"/>
MW-9SR	05/03/2023	12:47	1	Groundwater		BD08700	<input checked="" type="checkbox"/>
EB-2	05/03/2023	13:30	1	Equipment Blank		BD08701	<input checked="" type="checkbox"/>
MW-22I	05/03/2023	15:28	1	Groundwater		BD08702	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.05.04 09:59:33 -05'00'</small>	05/04/2023 09:59

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Miller 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	pH Check
MW-1	05/02/2023	13:10	1	Groundwater		BD08712	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Brian Carter</i>	05/04/2023 08:46

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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: TJ Daugherty		Requested By
		Location	Miller 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	pH Check
MW-19HA	05/01/2023	14:23	1	Groundwater		BD08703	<input checked="" type="checkbox"/>
MW-34H	05/02/2023	10:25	1	Groundwater		BD08704	<input checked="" type="checkbox"/>
MW-18H	05/02/2023	11:55	1	Groundwater		BD08705	<input checked="" type="checkbox"/>
MW-2	05/02/2023	13:52	1	Groundwater		BD08706	<input checked="" type="checkbox"/>
MW-11	05/03/2023	10:51	1	Groundwater		BD08707	<input checked="" type="checkbox"/>
FB-4	05/03/2023	13:00	1	Field Blank		BD08708	<input checked="" type="checkbox"/>
MW-22D	05/03/2023	14:55	1	Groundwater		BD08709	<input checked="" type="checkbox"/>
MW-22S	05/03/2023	16:00	1	Groundwater		BD08710	<input checked="" type="checkbox"/>
MW-22S Dup	05/03/2023	16:00	1	Sample Duplicate		BD08711	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		05/04/2023 08:47

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1408	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

June 20, 2023

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWMILAP_1408
Pace Project No.: 30586893

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2023. 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

(Greensburg, PA) - Revision 1 - This report replaces the 6/15/23 report. This project was revised on 6/20/23 in order to change a sample ID per client request.

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

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWMLAP_1408
Pace Project No.: 30586893

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
Guam Certification
Florida: Cert E871149 SEKS WET
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 #: 460198
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: WMWMILAP_1408

Pace Project No.: 30586893

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30586893001	BD07893 MW-37H	Water	04/18/23 09:23	05/10/23 10:20
30586893002	BD07893 MW-37H MS	Water	04/18/23 09:23	05/10/23 10:20
30586893003	BD07893 MW-37H MSD	Water	04/18/23 09:23	05/10/23 10:20
30586893004	BD07894 MW-35H	Water	04/18/23 10:48	05/10/23 10:20
30586893005	BD07895 MW-35H Dup	Water	04/18/23 10:48	05/10/23 10:20
30586893006	BD07896 MW-17H	Water	04/19/23 10:03	05/10/23 10:20
30586893007	BD07897 MW-20H	Water	04/19/23 12:16	05/10/23 10:20
30586893008	BD07898 MW-20HS	Water	04/19/23 13:36	05/10/23 10:20
30586893009	BD07899 MW-20HS Dup	Water	04/19/23 13:36	05/10/23 10:20
30586893010	BD07900 MW-32H	Water	04/19/23 15:18	05/10/23 10:20
30586893011	BD07901 MW-13SR	Water	04/18/23 11:40	05/10/23 10:20
30586893012	BD07902 MW-13DR	Water	04/18/23 13:55	05/10/23 10:20
30586893013	BD07903 MW-16	Water	04/19/23 10:05	05/10/23 10:20
30586893014	BD07903 MW-16 MS	Water	04/19/23 10:05	05/10/23 10:20
30586893015	BD07903 MW-16 MSD	Water	04/19/23 10:05	05/10/23 10:20
30586893016	BD07904 MW-15	Water	04/19/23 11:55	05/10/23 10:20
30586893017	BD07905 MW-15 Dup	Water	04/19/23 11:55	05/10/23 10:20
30586893018	BD07906 MW-28H	Water	04/19/23 14:25	05/10/23 10:20
30586893019	BD08203 MW-7DR	Water	04/24/23 10:56	05/10/23 10:20
30586893020	BD08204 FB-2	Water	04/24/23 11:25	05/10/23 10:20
30586893021	BD08205 MW-7SR	Water	04/24/23 12:08	05/10/23 10:20
30586893022	BD08205 MW-7SR MS	Water	04/24/23 12:08	05/10/23 10:20
30586893023	BD08205 MW-7SR MSD	Water	04/24/23 12:08	05/10/23 10:20
30586893024	BD08206 MW-6V	Water	04/24/23 14:42	05/10/23 10:20
30586893025	BD08207 PZ-5	Water	04/25/23 10:27	05/10/23 10:20
30586893026	BD08208 MW-5	Water	04/25/23 11:17	05/10/23 10:20
30586893027	BD08209 MW-5 Dup	Water	04/25/23 11:17	05/10/23 10:20
30586893028	BD08210 MW-6	Water	04/25/23 13:48	05/10/23 10:20
30586893029	BD08211 MW-33H	Water	04/25/23 14:57	05/10/23 10:20
30586893030	BD08212 FB-3	Water	04/25/23 15:40	05/10/23 10:20
30586893031	BD08213 MW-31H	Water	04/24/23 14:30	05/10/23 10:20
30586893032	BD08214 MW-36HR	Water	04/25/23 12:48	05/10/23 10:20
30586893033	BD08215 MW-27HR	Water	04/25/23 14:42	05/10/23 10:20
30586893034	BD08216 FB-1	Water	04/25/23 15:35	05/10/23 10:20
30586893035	BD08217 MW-30H	Water	04/26/23 10:30	05/10/23 10:20
30586893036	BD08687 MW23A	Water	05/01/23 12:03	05/10/23 10:20
30586893037	BD08688 MW-23	Water	05/01/23 14:23	05/10/23 10:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30586893038	BD08689 EB-1	Water	05/01/23 15:35	05/10/23 10:20
30586893039	BD08690 MW-4V	Water	05/02/23 08:36	05/10/23 10:20
30586893040	BD08691 MW-4	Water	05/02/23 09:39	05/10/23 10:20
30586893041	BD08692 MW-3S	Water	05/02/23 10:50	05/10/23 10:20
30586893042	BD08693 MW-3D	Water	05/02/23 11:57	05/10/23 10:20
30586893043	BD08694 MW-14R	Water	05/02/23 13:24	05/10/23 10:20
30586893044	BD08695 MW-21	Water	05/02/23 15:03	05/10/23 10:20
30586893045	BD08696 FB-5	Water	05/02/23 16:00	05/10/23 10:20
30586893046	BD08697 MW-10	Water	05/03/23 08:17	05/10/23 10:20
30586893047	BD08698 MW-12	Water	05/03/23 10:01	05/10/23 10:20
30586893048	BD08699 MW-9DR	Water	05/03/23 11:34	05/10/23 10:20
30586893049	BD08700 MW-9SR	Water	05/03/23 12:47	05/10/23 10:20
30586893050	BD08701 EB-2	Water	05/03/23 13:30	05/10/23 10:20
30586893051	BD08702 MW-22I	Water	05/03/23 15:28	05/10/23 10:20
30586893052	BD08703 MW-19HA	Water	05/01/23 14:23	05/10/23 10:20
30586893053	BD08704 MW-34H	Water	05/02/23 10:25	05/10/23 10:20
30586893054	BD08705 MW-18H	Water	05/02/23 11:55	05/10/23 10:20
30586893055	BD08706 MW-2	Water	05/02/23 13:52	05/10/23 10:20
30586893056	BD08707 MW-11	Water	05/03/23 10:51	05/10/23 10:20
30586893057	BD08708 FB-4	Water	05/03/23 13:00	05/10/23 10:20
30586893058	BD08709 MW-22D	Water	05/03/23 14:55	05/10/23 10:20
30586893059	BD08710 MW-22S	Water	05/03/23 16:00	05/10/23 10:20
30586893060	BD08711 MW-22S Dup	Water	05/03/23 16:00	05/10/23 10:20
30586893061	BD08712 MW-1	Water	05/02/23 13:10	05/10/23 10:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWMILAP_1408
Pace Project No.: 30586893

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30586893001	BD07893 MW-37H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893002	BD07893 MW-37H MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30586893003	BD07893 MW-37H MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30586893004	BD07894 MW-35H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893005	BD07895 MW-35H Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893006	BD07896 MW-17H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893007	BD07897 MW-20H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893008	BD07898 MW-20HS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893009	BD07899 MW-20HS Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893010	BD07900 MW-32H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893011	BD07901 MW-13SR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893012	BD07902 MW-13DR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893013	BD07903 MW-16	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWMLAP_1408
Pace Project No.: 30586893

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30586893014	BD07903 MW-16 MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893015	BD07903 MW-16 MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893016	BD07904 MW-15	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893017	BD07905 MW-15 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893018	BD07906 MW-28H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893019	BD08203 MW-7DR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893020	BD08204 FB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893021	BD08205 MW-7SR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893022	BD08205 MW-7SR MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30586893023	BD08205 MW-7SR MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30586893024	BD08206 MW-6V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893025	BD08207 PZ-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893026	BD08208 MW-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893027	BD08209 MW-5 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWMLAP_1408
Pace Project No.: 30586893

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30586893028	BD08210 MW-6	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893029	BD08211 MW-33H	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893030	BD08212 FB-3	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893031	BD08213 MW-31H	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893032	BD08214 MW-36HR	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893033	BD08215 MW-27HR	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893034	BD08216 FB-1	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893035	BD08217 MW-30H	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893036	BD08687 MW23A	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893037	BD08688 MW-23	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893038	BD08689 EB-1	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30586893039	BD08690 MW-4V	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: WMWMLAP_1408
Pace Project No.: 30586893

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30586893040	BD08691 MW-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893041	BD08692 MW-3S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893042	BD08693 MW-3D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893043	BD08694 MW-14R	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893044	BD08695 MW-21	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893045	BD08696 FB-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893046	BD08697 MW-10	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893047	BD08698 MW-12	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893048	BD08699 MW-9DR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893049	BD08700 MW-9SR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893050	BD08701 EB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893051	BD08702 MW-22I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30586893052	BD08703 MW-19HA	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: WMWMILAP_1408
Pace Project No.: 30586893

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30586893053	BD08704 MW-34H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30586893054	BD08705 MW-18H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30586893055	BD08706 MW-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30586893056	BD08707 MW-11	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30586893057	BD08708 FB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30586893058	BD08709 MW-22D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30586893059	BD08710 MW-22S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30586893060	BD08711 MW-22S Dup	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30586893061	BD08712 MW-1	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWMILAP_1408

Pace Project No.: 30586893

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: June 20, 2023

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: WMWMILAP_1408

Pace Project No.: 30586893

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: June 20, 2023

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: WMWMILAP_1408
Pace Project No.: 30586893

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Alabama Power
Date: June 20, 2023

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: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07893 MW-37H **Lab ID: 30586893001** Collected: 04/18/23 09:23 Received: 05/10/23 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	0.238U ± 0.228 (0.424) C:87% T:NA	pCi/L	06/02/23 07:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.259U ± 0.322 (0.683) C:79% T:87%	pCi/L	06/06/23 11:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.497U ± 0.550 (1.11)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07893 MW-37H MS **Lab ID: 30586893002** Collected: 04/18/23 09:23 Received: 05/10/23 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	110.68 %REC ± NA (NA) C:NA T:NA	pCi/L	06/02/23 07:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	86.91 %REC ± NA (NA) C:NA T:NA	pCi/L	06/06/23 11:19	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07893 MW-37H MSD **Lab ID: 30586893003** Collected: 04/18/23 09:23 Received: 05/10/23 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	106.64 %REC 3.73RPD ± NA (NA) C:NA T:NA	pCi/L	06/02/23 07:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	75.75 %REC 13.72RPD ± NA (NA) C:NA T:NA	pCi/L	06/06/23 11:19	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07894 MW-35H **Lab ID: 30586893004** Collected: 04/18/23 10:48 Received: 05/10/23 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	0.310U ± 0.232 (0.363) C:92% T:NA	pCi/L	06/02/23 07:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.303U ± 0.272 (0.544) C:84% T:85%	pCi/L	06/06/23 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.613U ± 0.504 (0.907)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07895 MW-35H Dup **Lab ID: 30586893005** Collected: 04/18/23 10:48 Received: 05/10/23 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	0.403U ± 0.274 (0.417) C:83% T:NA	pCi/L	06/02/23 07:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.04 ± 0.423 (0.664) C:86% T:81%	pCi/L	06/06/23 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.44 ± 0.697 (1.08)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07896 MW-17H **Lab ID: 30586893006** Collected: 04/19/23 10:03 Received: 05/10/23 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	0.553 ± 0.343 (0.537) C:83% T:NA	pCi/L	06/02/23 07:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.641 ± 0.308 (0.507) C:87% T:86%	pCi/L	06/06/23 11:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.19 ± 0.651 (1.04)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07897 MW-20H **Lab ID: 30586893007** Collected: 04/19/23 12:16 Received: 05/10/23 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	0.116U ± 0.210 (0.478) C:84% T:NA	pCi/L	06/02/23 07:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.955 ± 0.364 (0.528) C:84% T:90%	pCi/L	06/06/23 11:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.07 ± 0.574 (1.01)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07898 MW-20HS **Lab ID: 30586893008** Collected: 04/19/23 13:36 Received: 05/10/23 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 ± 0.214 (0.481) C:87% T:NA	pCi/L	06/02/23 07:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.486U ± 0.330 (0.630) C:86% T:83%	pCi/L	06/06/23 11:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.610U ± 0.544 (1.11)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07899 MW-20HS Dup **Lab ID: 30586893009** Collected: 04/19/23 13:36 Received: 05/10/23 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	0.514 ± 0.312 (0.473) C:88% T:NA	pCi/L	06/02/23 07:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.662 ± 0.335 (0.571) C:88% T:80%	pCi/L	06/06/23 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.18 ± 0.647 (1.04)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07900 MW-32H **Lab ID: 30586893010** Collected: 04/19/23 15:18 Received: 05/10/23 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	0.368U ± 0.253 (0.372) C:86% T:NA	pCi/L	06/02/23 07:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.197U ± 0.232 (0.484) C:86% T:91%	pCi/L	06/06/23 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.565U ± 0.485 (0.856)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07901 MW-13SR **Lab ID: 30586893011** Collected: 04/18/23 11:40 Received: 05/10/23 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	0.310U ± 0.266 (0.481) C:77% T:NA	pCi/L	06/02/23 08:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.385U ± 0.256 (0.473) C:89% T:87%	pCi/L	06/06/23 11:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.695U ± 0.522 (0.954)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07902 MW-13DR **Lab ID: 30586893012** Collected: 04/18/23 13:55 Received: 05/10/23 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	0.351U ± 0.255 (0.408) C:86% T:NA	pCi/L	06/02/23 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.204U ± 0.331 (0.718) C:82% T:79%	pCi/L	06/06/23 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.555U ± 0.586 (1.13)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07903 MW-16 **Lab ID: 30586893013** Collected: 04/19/23 10:05 Received: 05/10/23 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	0.387U ± 0.275 (0.430) C:80% T:NA	pCi/L	06/02/23 08:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.292U ± 0.279 (0.570) C:87% T:91%	pCi/L	06/07/23 12:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.679U ± 0.554 (1.000)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07903 MW-16 MS **Lab ID: 30586893014** Collected: 04/19/23 10:05 Received: 05/10/23 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	107.07 %REC ± NA (NA) C:NA T:NA	pCi/L	06/02/23 08:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	77.58 %REC ± NA (NA) C:NA T:NA	pCi/L	06/07/23 12:04	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07903 MW-16 MSD **Lab ID: 30586893015** Collected: 04/19/23 10:05 Received: 05/10/23 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	103.14 %REC 3.74RPD ± NA (NA) C:NA T:NA	pCi/L	06/02/23 08:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	71.08 %REC 8.73RPD ± NA (NA) C:NA T:NA	pCi/L	06/07/23 12:04	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07904 MW-15 **Lab ID: 30586893016** Collected: 04/19/23 11:55 Received: 05/10/23 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	0.277U ± 0.336 (0.720) C:85% T:NA	pCi/L	06/02/23 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.768 ± 0.382 (0.659) C:85% T:80%	pCi/L	06/06/23 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.05U ± 0.718 (1.38)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07905 MW-15 Dup **Lab ID: 30586893017** Collected: 04/19/23 11:55 Received: 05/10/23 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	0.385U ± 0.307 (0.542) C:76% T:NA	pCi/L	06/02/23 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.304U ± 0.291 (0.595) C:89% T:85%	pCi/L	06/06/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.689U ± 0.598 (1.14)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD07906 MW-28H **Lab ID: 30586893018** Collected: 04/19/23 14:25 Received: 05/10/23 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	0.125U ± 0.172 (0.360) C:86% T:NA	pCi/L	06/07/23 19:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0458U ± 0.223 (0.540) C:86% T:92%	pCi/L	06/06/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.125U ± 0.395 (0.900)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08203 MW-7DR **Lab ID: 30586893019** Collected: 04/24/23 10:56 Received: 05/10/23 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	0.208U ± 0.233 (0.469) C:81% T:NA	pCi/L	06/07/23 19:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.655 ± 0.335 (0.569) C:87% T:82%	pCi/L	06/06/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.863U ± 0.568 (1.04)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08204 FB-2 **Lab ID: 30586893020** Collected: 04/24/23 11:25 Received: 05/10/23 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	0.418U ± 0.278 (0.433) C:85% T:NA	pCi/L	06/07/23 19:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.174U ± 0.296 (0.645) C:84% T:89%	pCi/L	06/06/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.592U ± 0.574 (1.08)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08205 MW-7SR **Lab ID: 30586893021** Collected: 04/24/23 12:08 Received: 05/10/23 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	0.404 ± 0.249 (0.365) C:91% T:NA	pCi/L	06/07/23 19:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.400U ± 0.359 (0.726) C:81% T:82%	pCi/L	06/07/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.804U ± 0.608 (1.09)	pCi/L	06/14/23 17:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08205 MW-7SR MS **Lab ID: 30586893022** Collected: 04/24/23 12:08 Received: 05/10/23 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	116.52 %REC ± NA (NA) C:NA T:NA	pCi/L	06/07/23 19:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	82.13 %REC ± NA (NA) C:NA T:NA	pCi/L	06/07/23 11:29	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08205 MW-7SR MSD **Lab ID: 30586893023** Collected: 04/24/23 12:08 Received: 05/10/23 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	105.38 %REC 10.04RPD ± NA (NA) C:NA T:NA	pCi/L	06/07/23 19:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	81.59 %REC 0.66RPD ± NA (NA) C:NA T:NA	pCi/L	06/07/23 11:29	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08206 MW-6V **Lab ID: 30586893024** Collected: 04/24/23 14:42 Received: 05/10/23 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	0.316U ± 0.271 (0.477) C:70% T:NA	pCi/L	06/07/23 19:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.953 ± 0.380 (0.562) C:86% T:83%	pCi/L	06/06/23 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.27 ± 0.651 (1.04)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08207 PZ-5 **Lab ID: 30586893025** Collected: 04/25/23 10:27 Received: 05/10/23 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	0.242U ± 0.229 (0.433) C:90% T:NA	pCi/L	06/07/23 19:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.295U ± 0.252 (0.500) C:87% T:96%	pCi/L	06/06/23 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.537U ± 0.481 (0.933)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08208 MW-5 **Lab ID: 30586893026** Collected: 04/25/23 11:17 Received: 05/10/23 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	0.523 ± 0.285 (0.378) C:87% T:NA	pCi/L	06/07/23 19:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.971 ± 0.408 (0.651) C:87% T:85%	pCi/L	06/06/23 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.49 ± 0.693 (1.03)	pCi/L	06/08/23 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08209 MW-5 Dup **Lab ID: 30586893027** Collected: 04/25/23 11:17 Received: 05/10/23 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	0.400U ± 0.273 (0.435) C:89% T:NA	pCi/L	06/07/23 18:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.948 ± 0.407 (0.658) C:87% T:84%	pCi/L	06/07/23 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.35 ± 0.680 (1.09)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08210 MW-6 **Lab ID: 30586893028** Collected: 04/25/23 13:48 Received: 05/10/23 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	0.257U ± 0.250 (0.476) C:85% T:NA	pCi/L	06/07/23 18:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0941U ± 0.224 (0.558) C:79% T:91%	pCi/L	06/07/23 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.257U ± 0.474 (1.03)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408
Pace Project No.: 30586893

Sample: BD08211 MW-33H **Lab ID: 30586893029** Collected: 04/25/23 14:57 Received: 05/10/23 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	0.429 ± 0.260 (0.372) C:92% T:NA	pCi/L	06/08/23 10:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.306U ± 0.283 (0.572) C:89% T:81%	pCi/L	06/07/23 12:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.735U ± 0.543 (0.944)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08212 FB-3 **Lab ID: 30586893030** Collected: 04/25/23 15:40 Received: 05/10/23 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	0.122U ± 0.167 (0.350) C:95% T:NA	pCi/L	06/08/23 10:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.534U ± 0.323 (0.596) C:86% T:91%	pCi/L	06/07/23 12:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.656U ± 0.490 (0.946)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08213 MW-31H **Lab ID: 30586893031** Collected: 04/24/23 14:30 Received: 05/10/23 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	0.214U ± 0.231 (0.460) C:85% T:NA	pCi/L	06/08/23 10:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0640U ± 0.289 (0.663) C:78% T:81%	pCi/L	06/07/23 12:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.278U ± 0.520 (1.12)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08214 MW-36HR **Lab ID: 30586893032** Collected: 04/25/23 12:48 Received: 05/10/23 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	0.290U ± 0.238 (0.414) C:87% T:NA	pCi/L	06/08/23 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.329U ± 0.273 (0.537) C:82% T:89%	pCi/L	06/07/23 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.619U ± 0.511 (0.951)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08215 MW-27HR **Lab ID: 30586893033** Collected: 04/25/23 14:42 Received: 05/10/23 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	0.163U ± 0.194 (0.390) C:83% T:NA	pCi/L	06/08/23 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.414U ± 0.293 (0.550) C:83% T:82%	pCi/L	06/07/23 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.577U ± 0.487 (0.940)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08216 FB-1 **Lab ID: 30586893034** Collected: 04/25/23 15:35 Received: 05/10/23 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	0.454 ± 0.269 (0.381) C:88% T:NA	pCi/L	06/08/23 10:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.329U ± 0.282 (0.564) C:87% T:93%	pCi/L	06/07/23 11:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.783U ± 0.551 (0.945)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08217 MW-30H **Lab ID: 30586893035** Collected: 04/26/23 10:30 Received: 05/10/23 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	0.200U ± 0.238 (0.494) C:83% T:NA	pCi/L	06/08/23 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.321U ± 0.306 (0.621) C:79% T:86%	pCi/L	06/07/23 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.521U ± 0.544 (1.12)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08687 MW23A **Lab ID: 30586893036** Collected: 05/01/23 12:03 Received: 05/10/23 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	0.779 ± 0.361 (0.424) C:82% T:NA	pCi/L	06/08/23 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.595 ± 0.324 (0.565) C:79% T:92%	pCi/L	06/07/23 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.37 ± 0.685 (0.989)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08688 MW-23 **Lab ID: 30586893037** Collected: 05/01/23 14:23 Received: 05/10/23 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	4.13 ± 0.906 (0.412) C:94% T:NA	pCi/L	06/08/23 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	3.42 ± 0.828 (0.661) C:80% T:79%	pCi/L	06/12/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	7.55 ± 1.73 (1.07)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08689 EB-1 **Lab ID: 30586893038** Collected: 05/01/23 15:35 Received: 05/10/23 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	0.289U ± 0.312 (0.622) C:88% T:NA	pCi/L	06/08/23 08:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0413U ± 0.274 (0.628) C:84% T:94%	pCi/L	06/07/23 12:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.330U ± 0.586 (1.25)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08690 MW-4V **Lab ID: 30586893039** Collected: 05/02/23 08:36 Received: 05/10/23 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	0.101U ± 0.207 (0.482) C:90% T:NA	pCi/L	06/08/23 08:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.737 ± 0.373 (0.639) C:80% T:85%	pCi/L	06/07/23 12:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.838U ± 0.580 (1.12)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08691 MW-4 **Lab ID: 30586893040** Collected: 05/02/23 09:39 Received: 05/10/23 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	0.127U ± 0.200 (0.443) C:88% T:NA	pCi/L	06/08/23 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0758U ± 0.272 (0.619) C:83% T:87%	pCi/L	06/07/23 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.203U ± 0.472 (1.06)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08692 MW-3S **Lab ID: 30586893041** Collected: 05/02/23 10:50 Received: 05/10/23 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	0.380U ± 0.280 (0.462) C:75% T:NA	pCi/L	06/08/23 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.667 ± 0.365 (0.658) C:86% T:85%	pCi/L	06/07/23 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.05U ± 0.645 (1.12)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08693 MW-3D **Lab ID: 30586893042** Collected: 05/02/23 11:57 Received: 05/10/23 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	0.444U ± 0.288 (0.479) C:90% T:NA	pCi/L	06/08/23 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.413U ± 0.324 (0.638) C:84% T:82%	pCi/L	06/07/23 12:01	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.857U ± 0.612 (1.12)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08694 MW-14R **Lab ID: 30586893043** Collected: 05/02/23 13:24 Received: 05/10/23 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	0.502 ± 0.275 (0.337) C:83% T:NA	pCi/L	06/08/23 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0229U ± 0.289 (0.685) C:74% T:88%	pCi/L	06/07/23 12:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.502U ± 0.564 (1.02)	pCi/L	06/12/23 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08695 MW-21 **Lab ID: 30586893044** Collected: 05/02/23 15:03 Received: 05/10/23 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	0.534 ± 0.298 (0.424) C:101% T:NA	pCi/L	06/08/23 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.580U ± 0.382 (0.721) C:79% T:84%	pCi/L	06/07/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.11U ± 0.680 (1.15)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08696 FB-5 **Lab ID: 30586893045** Collected: 05/02/23 16:00 Received: 05/10/23 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	0.0968U ± 0.198 (0.461) C:83% T:NA	pCi/L	06/08/23 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.867 ± 0.441 (0.772) C:79% T:83%	pCi/L	06/07/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.964U ± 0.639 (1.23)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08697 MW-10 **Lab ID: 30586893046** Collected: 05/03/23 08:17 Received: 05/10/23 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	0.413U ± 0.288 (0.473) C:91% T:NA	pCi/L	06/08/23 08:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.539U ± 0.417 (0.821) C:80% T:80%	pCi/L	06/07/23 11:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.952U ± 0.705 (1.29)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08698 MW-12 **Lab ID: 30586893047** Collected: 05/03/23 10:01 Received: 05/10/23 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	0.396 ± 0.261 (0.374) C:79% T:NA	pCi/L	06/08/23 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.263U ± 0.328 (0.694) C:80% T:87%	pCi/L	06/07/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.659U ± 0.589 (1.07)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08699 MW-9DR **Lab ID: 30586893048** Collected: 05/03/23 11:34 Received: 05/10/23 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	0.291U ± 0.253 (0.459) C:83% T:NA	pCi/L	06/08/23 08:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.162U ± 0.339 (0.749) C:81% T:85%	pCi/L	06/07/23 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.453U ± 0.592 (1.21)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08700 MW-9SR **Lab ID: 30586893049** Collected: 05/03/23 12:47 Received: 05/10/23 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	0.186U ± 0.196 (0.369) C:87% T:NA	pCi/L	06/08/23 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.523U ± 0.381 (0.739) C:79% T:84%	pCi/L	06/07/23 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.709U ± 0.577 (1.11)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08701 EB-2 **Lab ID: 30586893050** Collected: 05/03/23 13:30 Received: 05/10/23 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	0.327U ± 0.238 (0.373) C:87% T:NA	pCi/L	06/08/23 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.263U ± 0.332 (0.704) C:82% T:87%	pCi/L	06/07/23 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.590U ± 0.570 (1.08)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408
Pace Project No.: 30586893

Sample: BD08702 MW-221 **Lab ID: 30586893051** Collected: 05/03/23 15:28 Received: 05/10/23 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	0.297U ± 0.246 (0.441) C:89% T:NA	pCi/L	06/08/23 08:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.536U ± 0.321 (0.581) C:77% T:96%	pCi/L	06/07/23 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.833U ± 0.567 (1.02)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08703 MW-19HA **Lab ID: 30586893052** Collected: 05/01/23 14:23 Received: 05/10/23 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	0.546 ± 0.291 (0.371) C:95% T:NA	pCi/L	06/08/23 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0161U ± 0.280 (0.665) C:82% T:82%	pCi/L	06/07/23 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.546U ± 0.571 (1.04)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408
Pace Project No.: 30586893

Sample: BD08704 MW-34H **Lab ID: 30586893053** Collected: 05/02/23 10:25 Received: 05/10/23 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	0.435U ± 0.298 (0.490) C:82% T:NA	pCi/L	06/08/23 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.480U ± 0.331 (0.626) C:82% T:84%	pCi/L	06/07/23 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.915U ± 0.629 (1.12)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08705 MW-18H **Lab ID: 30586893054** Collected: 05/02/23 11:55 Received: 05/10/23 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 ± 0.181 (0.322) C:90% T:NA	pCi/L	06/08/23 08:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.168U ± 0.325 (0.714) C:81% T:85%	pCi/L	06/07/23 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.349U ± 0.506 (1.04)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08706 MW-2 **Lab ID: 30586893055** Collected: 05/02/23 13:52 Received: 05/10/23 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	0.380 ± 0.246 (0.373) C:93% T:NA	pCi/L	06/08/23 08:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.451U ± 0.356 (0.702) C:81% T:86%	pCi/L	06/07/23 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.831U ± 0.602 (1.08)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08707 MW-11 **Lab ID: 30586893056** Collected: 05/03/23 10:51 Received: 05/10/23 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 ± 0.225 (0.412) C:89% T:NA	pCi/L	06/08/23 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.378U ± 0.348 (0.706) C:83% T:85%	pCi/L	06/07/23 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.618U ± 0.573 (1.12)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08708 FB-4 **Lab ID: 30586893057** Collected: 05/03/23 13:00 Received: 05/10/23 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	0.120U ± 0.213 (0.482) C:85% T:NA	pCi/L	06/08/23 08:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.518U ± 0.355 (0.669) C:77% T:86%	pCi/L	06/07/23 11:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.638U ± 0.568 (1.15)	pCi/L	06/08/23 15:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08709 MW-22D **Lab ID: 30586893058** Collected: 05/03/23 14:55 Received: 05/10/23 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	0.0882U ± 0.156 (0.351) C:98% T:NA	pCi/L	06/08/23 08:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.00684U ± 0.287 (0.673) C:82% T:85%	pCi/L	06/07/23 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0950U ± 0.443 (1.02)	pCi/L	06/08/23 15:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08710 MW-22S **Lab ID: 30586893059** Collected: 05/03/23 16:00 Received: 05/10/23 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	0.312U ± 0.253 (0.427) C:80% T:NA	pCi/L	06/08/23 08:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.331U ± 0.308 (0.625) C:82% T:85%	pCi/L	06/07/23 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.643U ± 0.561 (1.05)	pCi/L	06/08/23 15:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08711 MW-22S Dup **Lab ID: 30586893060** Collected: 05/03/23 16:00 Received: 05/10/23 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	0.180U ± 0.222 (0.466) C:91% T:NA	pCi/L	06/08/23 10:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.447U ± 0.306 (0.559) C:79% T:78%	pCi/L	06/07/23 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.627U ± 0.528 (1.03)	pCi/L	06/08/23 15:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

Sample: BD08712 MW-1 **Lab ID: 30586893061** Collected: 05/02/23 13:10 Received: 05/10/23 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	0.443U ± 0.281 (0.445) C:92% T:NA	pCi/L	06/08/23 10:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.933 ± 0.383 (0.575) C:79% T:90%	pCi/L	06/07/23 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.38 ± 0.664 (1.02)	pCi/L	06/08/23 15:24	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1408
Pace Project No.: 30586893

QC Batch: 588277 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30586893001, 30586893002, 30586893003, 30586893004, 30586893005, 30586893006, 30586893007,
30586893008, 30586893009, 30586893010, 30586893011, 30586893012, 30586893013, 30586893014,
30586893015, 30586893016, 30586893017

METHOD BLANK: 2858621 Matrix: Water

Associated Lab Samples: 30586893001, 30586893002, 30586893003, 30586893004, 30586893005, 30586893006, 30586893007,
30586893008, 30586893009, 30586893010, 30586893011, 30586893012, 30586893013, 30586893014,
30586893015, 30586893016, 30586893017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0819 ± 0.0879 (0.169) C:81% T:NA	pCi/L	06/02/23 07:57	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

QC Batch: 588279

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30586893038, 30586893039, 30586893040, 30586893041, 30586893042, 30586893043, 30586893044, 30586893045, 30586893046, 30586893047, 30586893048, 30586893049, 30586893050, 30586893051, 30586893052, 30586893053, 30586893054, 30586893055, 30586893056, 30586893057

METHOD BLANK: 2858623

Matrix: Water

Associated Lab Samples: 30586893038, 30586893039, 30586893040, 30586893041, 30586893042, 30586893043, 30586893044, 30586893045, 30586893046, 30586893047, 30586893048, 30586893049, 30586893050, 30586893051, 30586893052, 30586893053, 30586893054, 30586893055, 30586893056, 30586893057

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.198 ± 0.124 (0.198) C:91% T:NA	pCi/L	06/08/23 08:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

QC Batch: 591321

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30586893013, 30586893014, 30586893015, 30586893027, 30586893028, 30586893029, 30586893030, 30586893031, 30586893032, 30586893033, 30586893034, 30586893035, 30586893036, 30586893037, 30586893038, 30586893039, 30586893040, 30586893041, 30586893042, 30586893043

METHOD BLANK: 2873467

Matrix: Water

Associated Lab Samples: 30586893013, 30586893014, 30586893015, 30586893027, 30586893028, 30586893029, 30586893030, 30586893031, 30586893032, 30586893033, 30586893034, 30586893035, 30586893036, 30586893037, 30586893038, 30586893039, 30586893040, 30586893041, 30586893042, 30586893043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.140 ± 0.268 (0.658) C:85% T:85%	pCi/L	06/07/23 12:05	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

QC Batch: 591323

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30586893061

METHOD BLANK: 2873483

Matrix: Water

Associated Lab Samples: 30586893061

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.523 ± 0.334 (0.623) C:81% T:90%	pCi/L	06/07/23 11:27	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

QC Batch: 588280

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30586893058, 30586893059, 30586893060, 30586893061

METHOD BLANK: 2858624

Matrix: Water

Associated Lab Samples: 30586893058, 30586893059, 30586893060, 30586893061

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00977 ± 0.0530 (0.160) C:94% T:NA	pCi/L	06/08/23 08:29	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1408
Pace Project No.: 30586893

QC Batch:	591319	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30586893001, 30586893002, 30586893003, 30586893004, 30586893005, 30586893006, 30586893007, 30586893008, 30586893009, 30586893010, 30586893011, 30586893012, 30586893016, 30586893017, 30586893018, 30586893019, 30586893020, 30586893024, 30586893025, 30586893026

METHOD BLANK: 2873464 Matrix: Water

Associated Lab Samples: 30586893001, 30586893002, 30586893003, 30586893004, 30586893005, 30586893006, 30586893007, 30586893008, 30586893009, 30586893010, 30586893011, 30586893012, 30586893016, 30586893017, 30586893018, 30586893019, 30586893020, 30586893024, 30586893025, 30586893026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.898 ± 0.409 (0.680) C:78% T:85%	pCi/L	06/06/23 11:19	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

QC Batch:	588278	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30586893018, 30586893019, 30586893020, 30586893021, 30586893022, 30586893023, 30586893024, 30586893025, 30586893026, 30586893027, 30586893028, 30586893029, 30586893030, 30586893031, 30586893032, 30586893033, 30586893034, 30586893035, 30586893036, 30586893037

METHOD BLANK:	2858622	Matrix:	Water
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Associated Lab Samples: 30586893018, 30586893019, 30586893020, 30586893021, 30586893022, 30586893023, 30586893024, 30586893025, 30586893026, 30586893027, 30586893028, 30586893029, 30586893030, 30586893031, 30586893032, 30586893033, 30586893034, 30586893035, 30586893036, 30586893037

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.101 ± 0.0908 (0.162) C:82% T:NA	pCi/L	06/07/23 19:29	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1408

Pace Project No.: 30586893

QC Batch: 591322

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30586893021, 30586893022, 30586893023, 30586893044, 30586893045, 30586893046, 30586893047, 30586893048, 30586893049, 30586893050, 30586893051, 30586893052, 30586893053, 30586893054, 30586893055, 30586893056, 30586893057, 30586893058, 30586893059, 30586893060

METHOD BLANK: 2873478

Matrix: Water

Associated Lab Samples: 30586893021, 30586893022, 30586893023, 30586893044, 30586893045, 30586893046, 30586893047, 30586893048, 30586893049, 30586893050, 30586893051, 30586893052, 30586893053, 30586893054, 30586893055, 30586893056, 30586893057, 30586893058, 30586893059, 30586893060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.270 ± 0.281 (0.578) C:85% T:89%	pCi/L	06/07/23 11:29	

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QUALIFIERS

Project: WMWMILAP_1408
Pace Project No.: 30586893

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.

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: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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: WMWMLAP_1408

Pace Project No.: 30586893

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30586893001	BD07893 MW-37H	EPA 9315	588277		
30586893002	BD07893 MW-37H MS	EPA 9315	588277		
30586893003	BD07893 MW-37H MSD	EPA 9315	588277		
30586893004	BD07894 MW-35H	EPA 9315	588277		
30586893005	BD07895 MW-35H Dup	EPA 9315	588277		
30586893006	BD07896 MW-17H	EPA 9315	588277		
30586893007	BD07897 MW-20H	EPA 9315	588277		
30586893008	BD07898 MW-20HS	EPA 9315	588277		
30586893009	BD07899 MW-20HS Dup	EPA 9315	588277		
30586893010	BD07900 MW-32H	EPA 9315	588277		
30586893011	BD07901 MW-13SR	EPA 9315	588277		
30586893012	BD07902 MW-13DR	EPA 9315	588277		
30586893013	BD07903 MW-16	EPA 9315	588277		
30586893014	BD07903 MW-16 MS	EPA 9315	588277		
30586893015	BD07903 MW-16 MSD	EPA 9315	588277		
30586893016	BD07904 MW-15	EPA 9315	588277		
30586893017	BD07905 MW-15 Dup	EPA 9315	588277		
30586893018	BD07906 MW-28H	EPA 9315	588278		
30586893019	BD08203 MW-7DR	EPA 9315	588278		
30586893020	BD08204 FB-2	EPA 9315	588278		
30586893021	BD08205 MW-7SR	EPA 9315	588278		
30586893022	BD08205 MW-7SR MS	EPA 9315	588278		
30586893023	BD08205 MW-7SR MSD	EPA 9315	588278		
30586893024	BD08206 MW-6V	EPA 9315	588278		
30586893025	BD08207 PZ-5	EPA 9315	588278		
30586893026	BD08208 MW-5	EPA 9315	588278		
30586893027	BD08209 MW-5 Dup	EPA 9315	588278		
30586893028	BD08210 MW-6	EPA 9315	588278		
30586893029	BD08211 MW-33H	EPA 9315	588278		
30586893030	BD08212 FB-3	EPA 9315	588278		
30586893031	BD08213 MW-31H	EPA 9315	588278		
30586893032	BD08214 MW-36HR	EPA 9315	588278		
30586893033	BD08215 MW-27HR	EPA 9315	588278		
30586893034	BD08216 FB-1	EPA 9315	588278		
30586893035	BD08217 MW-30H	EPA 9315	588278		
30586893036	BD08687 MW23A	EPA 9315	588278		
30586893037	BD08688 MW-23	EPA 9315	588278		
30586893038	BD08689 EB-1	EPA 9315	588279		
30586893039	BD08690 MW-4V	EPA 9315	588279		
30586893040	BD08691 MW-4	EPA 9315	588279		
30586893041	BD08692 MW-3S	EPA 9315	588279		
30586893042	BD08693 MW-3D	EPA 9315	588279		
30586893043	BD08694 MW-14R	EPA 9315	588279		
30586893044	BD08695 MW-21	EPA 9315	588279		
30586893045	BD08696 FB-5	EPA 9315	588279		
30586893046	BD08697 MW-10	EPA 9315	588279		
30586893047	BD08698 MW-12	EPA 9315	588279		
30586893048	BD08699 MW-9DR	EPA 9315	588279		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP_1408

Pace Project No.: 30586893

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30586893049	BD08700 MW-9SR	EPA 9315	588279		
30586893050	BD08701 EB-2	EPA 9315	588279		
30586893051	BD08702 MW-22I	EPA 9315	588279		
30586893052	BD08703 MW-19HA	EPA 9315	588279		
30586893053	BD08704 MW-34H	EPA 9315	588279		
30586893054	BD08705 MW-18H	EPA 9315	588279		
30586893055	BD08706 MW-2	EPA 9315	588279		
30586893056	BD08707 MW-11	EPA 9315	588279		
30586893057	BD08708 FB-4	EPA 9315	588279		
30586893058	BD08709 MW-22D	EPA 9315	588280		
30586893059	BD08710 MW-22S	EPA 9315	588280		
30586893060	BD08711 MW-22S Dup	EPA 9315	588280		
30586893061	BD08712 MW-1	EPA 9315	588280		
30586893001	BD07893 MW-37H	EPA 9320	591319		
30586893002	BD07893 MW-37H MS	EPA 9320	591319		
30586893003	BD07893 MW-37H MSD	EPA 9320	591319		
30586893004	BD07894 MW-35H	EPA 9320	591319		
30586893005	BD07895 MW-35H Dup	EPA 9320	591319		
30586893006	BD07896 MW-17H	EPA 9320	591319		
30586893007	BD07897 MW-20H	EPA 9320	591319		
30586893008	BD07898 MW-20HS	EPA 9320	591319		
30586893009	BD07899 MW-20HS Dup	EPA 9320	591319		
30586893010	BD07900 MW-32H	EPA 9320	591319		
30586893011	BD07901 MW-13SR	EPA 9320	591319		
30586893012	BD07902 MW-13DR	EPA 9320	591319		
30586893013	BD07903 MW-16	EPA 9320	591321		
30586893014	BD07903 MW-16 MS	EPA 9320	591321		
30586893015	BD07903 MW-16 MSD	EPA 9320	591321		
30586893016	BD07904 MW-15	EPA 9320	591319		
30586893017	BD07905 MW-15 Dup	EPA 9320	591319		
30586893018	BD07906 MW-28H	EPA 9320	591319		
30586893019	BD08203 MW-7DR	EPA 9320	591319		
30586893020	BD08204 FB-2	EPA 9320	591319		
30586893021	BD08205 MW-7SR	EPA 9320	591322		
30586893022	BD08205 MW-7SR MS	EPA 9320	591322		
30586893023	BD08205 MW-7SR MSD	EPA 9320	591322		
30586893024	BD08206 MW-6V	EPA 9320	591319		
30586893025	BD08207 PZ-5	EPA 9320	591319		
30586893026	BD08208 MW-5	EPA 9320	591319		
30586893027	BD08209 MW-5 Dup	EPA 9320	591321		
30586893028	BD08210 MW-6	EPA 9320	591321		
30586893029	BD08211 MW-33H	EPA 9320	591321		
30586893030	BD08212 FB-3	EPA 9320	591321		
30586893031	BD08213 MW-31H	EPA 9320	591321		
30586893032	BD08214 MW-36HR	EPA 9320	591321		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP_1408
Pace Project No.: 30586893

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30586893033	BD08215 MW-27HR	EPA 9320	591321		
30586893034	BD08216 FB-1	EPA 9320	591321		
30586893035	BD08217 MW-30H	EPA 9320	591321		
30586893036	BD08687 MW23A	EPA 9320	591321		
30586893037	BD08688 MW-23	EPA 9320	591321		
30586893038	BD08689 EB-1	EPA 9320	591321		
30586893039	BD08690 MW-4V	EPA 9320	591321		
30586893040	BD08691 MW-4	EPA 9320	591321		
30586893041	BD08692 MW-3S	EPA 9320	591321		
30586893042	BD08693 MW-3D	EPA 9320	591321		
30586893043	BD08694 MW-14R	EPA 9320	591321		
30586893044	BD08695 MW-21	EPA 9320	591322		
30586893045	BD08696 FB-5	EPA 9320	591322		
30586893046	BD08697 MW-10	EPA 9320	591322		
30586893047	BD08698 MW-12	EPA 9320	591322		
30586893048	BD08699 MW-9DR	EPA 9320	591322		
30586893049	BD08700 MW-9SR	EPA 9320	591322		
30586893050	BD08701 EB-2	EPA 9320	591322		
30586893051	BD08702 MW-22I	EPA 9320	591322		
30586893052	BD08703 MW-19HA	EPA 9320	591322		
30586893053	BD08704 MW-34H	EPA 9320	591322		
30586893054	BD08705 MW-18H	EPA 9320	591322		
30586893055	BD08706 MW-2	EPA 9320	591322		
30586893056	BD08707 MW-11	EPA 9320	591322		
30586893057	BD08708 FB-4	EPA 9320	591322		
30586893058	BD08709 MW-22D	EPA 9320	591322		
30586893059	BD08710 MW-22S	EPA 9320	591322		
30586893060	BD08711 MW-22S Dup	EPA 9320	591322		
30586893061	BD08712 MW-1	EPA 9320	591323		
30586893001	BD07893 MW-37H	Total Radium Calculation	593646		
30586893004	BD07894 MW-35H	Total Radium Calculation	593646		
30586893005	BD07895 MW-35H Dup	Total Radium Calculation	593646		
30586893006	BD07896 MW-17H	Total Radium Calculation	593646		
30586893007	BD07897 MW-20H	Total Radium Calculation	593646		
30586893008	BD07898 MW-20HS	Total Radium Calculation	593646		
30586893009	BD07899 MW-20HS Dup	Total Radium Calculation	593646		
30586893010	BD07900 MW-32H	Total Radium Calculation	593646		
30586893011	BD07901 MW-13SR	Total Radium Calculation	593646		
30586893012	BD07902 MW-13DR	Total Radium Calculation	593646		
30586893013	BD07903 MW-16	Total Radium Calculation	594290		
30586893016	BD07904 MW-15	Total Radium Calculation	593646		
30586893017	BD07905 MW-15 Dup	Total Radium Calculation	593646		
30586893018	BD07906 MW-28H	Total Radium Calculation	593646		
30586893019	BD08203 MW-7DR	Total Radium Calculation	593646		
30586893020	BD08204 FB-2	Total Radium Calculation	593646		
30586893021	BD08205 MW-7SR	Total Radium Calculation	594974		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP_1408

Pace Project No.: 30586893

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30586893024	BD08206 MW-6V	Total Radium Calculation	593646		
30586893025	BD08207 PZ-5	Total Radium Calculation	593646		
30586893026	BD08208 MW-5	Total Radium Calculation	593646		
30586893027	BD08209 MW-5 Dup	Total Radium Calculation	594290		
30586893028	BD08210 MW-6	Total Radium Calculation	594290		
30586893029	BD08211 MW-33H	Total Radium Calculation	594290		
30586893030	BD08212 FB-3	Total Radium Calculation	594290		
30586893031	BD08213 MW-31H	Total Radium Calculation	594290		
30586893032	BD08214 MW-36HR	Total Radium Calculation	594290		
30586893033	BD08215 MW-27HR	Total Radium Calculation	594290		
30586893034	BD08216 FB-1	Total Radium Calculation	594290		
30586893035	BD08217 MW-30H	Total Radium Calculation	594290		
30586893036	BD08687 MW23A	Total Radium Calculation	594290		
30586893037	BD08688 MW-23	Total Radium Calculation	594290		
30586893038	BD08689 EB-1	Total Radium Calculation	594290		
30586893039	BD08690 MW-4V	Total Radium Calculation	594290		
30586893040	BD08691 MW-4	Total Radium Calculation	594290		
30586893041	BD08692 MW-3S	Total Radium Calculation	594290		
30586893042	BD08693 MW-3D	Total Radium Calculation	594290		
30586893043	BD08694 MW-14R	Total Radium Calculation	594290		
30586893044	BD08695 MW-21	Total Radium Calculation	593653		
30586893045	BD08696 FB-5	Total Radium Calculation	593653		
30586893046	BD08697 MW-10	Total Radium Calculation	593653		
30586893047	BD08698 MW-12	Total Radium Calculation	593653		
30586893048	BD08699 MW-9DR	Total Radium Calculation	593653		
30586893049	BD08700 MW-9SR	Total Radium Calculation	593653		
30586893050	BD08701 EB-2	Total Radium Calculation	593653		
30586893051	BD08702 MW-22I	Total Radium Calculation	593653		
30586893052	BD08703 MW-19HA	Total Radium Calculation	593653		
30586893053	BD08704 MW-34H	Total Radium Calculation	593653		
30586893054	BD08705 MW-18H	Total Radium Calculation	593653		
30586893055	BD08706 MW-2	Total Radium Calculation	593653		
30586893056	BD08707 MW-11	Total Radium Calculation	593653		
30586893057	BD08708 FB-4	Total Radium Calculation	593653		
30586893058	BD08709 MW-22D	Total Radium Calculation	593645		
30586893059	BD08710 MW-22S	Total Radium Calculation	593645		
30586893060	BD08711 MW-22S Dup	Total Radium Calculation	593645		
30586893061	BD08712 MW-1	Total Radium Calculation	593645		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document


The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Invoice Information:		Regulatory Agency	
Company: Alabama Power Company		Report To: Brooke Catton		Brooke Catton	
Address: 744 Highway 87 GSC Bldg #8		Copy To: Renee Jernigan & Blaine Denton		Company Name: Alabama Power Co.	
Calera, AL 35040		Purchase Order #: APC10755638		Address: 744 Highway 87 GSC Bldg #8	
Email To: rjgarnier@southernco.com		Project Name: Plant Miller Ash Pond		Pace Quote: CCR	
Phone: 205-664-6101 Fax:		Project Number: WNWMMILAP_1408		Pace Project Manager: Skyler Richmond	
Requested Due Date: Normal		Pace Profile #: 16788		State / Location: AL	

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives			Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	
									START DATE	TIME		Unpreserved	NaOH+ZnAcetate	HNO3							
1	BD07893	APCO-MR-AP-MW-37H	APCO_Miller_AshPond		X		GW	G	4/18/2023	9:23	3			X	X	X					001,007,013
2	BD07894	APCO-MR-AP-MW-35H	APCO_Miller_AshPond				GW	G	4/18/2023	10:48	1			X	X	X					004
3	BD07895	APCO-MR-AP-MW-35H Dup	APCO_Miller_AshPond	X			GW	G	4/18/2023	10:48	1			X	X	X					005
4	BD07896	APCO-MR-AP-MW-17H	APCO_Miller_AshPond				GW	G	4/19/2023	10:03	1			X	X	X					006
5	BD07897	APCO-MR-AP-MW-20H	APCO_Miller_AshPond				GW	G	4/19/2023	12:16	1			X	X	X					007
6	BD07898	APCO-MR-AP-MW-20HS	APCO_Miller_AshPond				GW	G	4/19/2023	13:36	1			X	X	X					008
7	BD07899	APCO-MR-AP-MW-20HS Dup	APCO_Miller_AshPond	X			GW	G	4/19/2023	13:36	1			X	X	X					009
8	BD07900	APCO-MR-AP-MW-32H	APCO_Miller_AshPond				GW	G	4/19/2023	15:18	1			X	X	X					010
9	BD07901	APCO-MR-AP-MW-13SR	APCO_Miller_AshPond				GW	G	4/18/2023	11:40	1			X	X	X					011
10	BD07902	APCO-MR-AP-MW-13DR	APCO_Miller_AshPond				GW	G	4/18/2023	13:55	1			X	X	X					012
11	BD07903	APCO-MR-AP-MW-16	APCO_Miller_AshPond		X		GW	G	4/19/2023	10:05	3			X	X	X					013,014,015
12	BD07904	APCO-MR-AP-MW-15	APCO_Miller_AshPond				GW	G	4/19/2023	11:55	1			X	X	X					016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Brooke Catton	5/5/2023	11:51	<i>[Signature]</i>	5-10-23	10:20

W0#: 30586893



30586893

SAMPLER NAME AND SIGNATURE
 PRINT NAME of SAMPLER:
 SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C

Received on

Ice

Sealed

Cooler

Samples

Contact

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company		Report To: Brooke Caton		Attention: Brooke Caton	
Address: 744 Highway 87 GSC Bldg #8		Copy To: Renee Jernigan & Blaine Denton		Company Name: Alabama Power Co.	
Calera, AL 35040		Purchase Order # APC10755638		Address: 744 Highway 87 GSC Bldg #8	
Email To: rgamei@southernco.com		Project Name: Plant Miller Ash Pond		CCR	
Phone: 205-664-6101 Fax:		Project Number: WMMWMLAP_1408		Pace Project Manager: Skylar Richmond	
Requested Due Date: Normal				Pace Profile #: 16788	
				Regulatory Agency: AL	
				State / Location: AL	

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		# OF CONTAINERS	Preservatives			Requested Analysis Filtered (Y/N)			EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)
								DATE	TIME		Unpreserved	NaOH/ZnAcetate	HNO3	Y/N	Y/N	Y/N					
1	MW-15 Dup	APCO-MR-AP-MW-15 Dup	APCO_Miller_AshPond	x		GW	G	4/19/2023	11:55	1	X			X	X	X	X			017	
2	MW-28H	APCO-MR-AP-MW-28H	APCO_Miller_AshPond			GW	G	4/19/2023	14:25	1	X			X	X	X	X			018	
3	MW-7DR	APCO-MR-AP-MW-7DR	APCO_Miller_AshPond			GW	G	4/24/2023	10:56	1	X			X	X	X	X			019	
4	FB-2	APCO-MR-AP-FB-02	APCO_Miller_AshPond			GW	G	4/24/2023	11:25	1	X			X	X	X	X			020	
5	MW-7SR	APCO-MR-AP-MW-7SR	APCO_Miller_AshPond	x		GW	G	4/24/2023	12:08	3	X			X	X	X	X			021, 022, 023	
6	MW-6V	APCO-MR-AP-MW-6V	APCO_Miller_AshPond			GW	G	4/24/2023	14:42	1	X			X	X	X	X			024	
7	PZ-5	APCO-MR-AP-PZ-5	APCO_Miller_AshPond			GW	G	4/25/2023	10:27	1	X			X	X	X	X			025	
8	MW-5	APCO-MR-AP-MW-5	APCO_Miller_AshPond			GW	G	4/25/2023	11:17	1	X			X	X	X	X			026	
9	MW-5 Dup	APCO-MR-AP-MW-5	APCO_Miller_AshPond	x		GW	G	4/25/2023	11:17	1	X			X	X	X	X			027	
10	MW-6	APCO-MR-AP-MW-6	APCO_Miller_AshPond			GW	G	4/25/2023	13:48	1	X			X	X	X	X			028	
11	MW-33H	APCO-MR-AP-MW-33H	APCO_Miller_AshPond			GW	G	4/25/2023	14:57	1	X			X	X	X	X			029	
12	FB-3	APCO-MR-AP-FB-03	APCO_Miller_AshPond			GW	G	4/25/2023	15:40	1	X			X	X	X	X			030	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Brooke Caton	5/5/2023	11:51	<i>Brooke Caton</i>	5/10/23	10:20

W0#: 30586893

PW: SCR Due Date: 06/08/23
CLIENT: ALABAMA PWR

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:

DATE Signed:

Received on _____
 Custody (Y/N) _____
 Sealed (Y/N) _____
 Cooler (Y/N) _____
 Samples Intact (Y/N) _____

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Catton	Company Name:	Brooke Catton
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton	Address:	744 Highway 87 GSC Bldg #8
Email To:	igartner@southernco.com	Purchase Order #:	APC10755638	Pace Quote:	CCR
Phone:	205-664-6101	Project Name:	Plant Miller_Ash Pond	Pace Project Manager:	Skylar Richmond
Requested Due Date:	Normal	Project Number:	WMMWMLAP_1406	Pace Profile #:	16788
				Regulatory Agency:	AL
				State / Location:	AL

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		# OF CONTAINERS	Preservatives			Y/N	Requested Analysis Filtered (Y/N)	EPA 9315	EPA 9320	Total Redum Sum	Total Sulfide	Residual Chlorine (Y/N)
									START DATE	TIME		Unpreserved	NaOH+ZnAcetate	HNO3							
1	BD08213	APCO-MR-AP-MW-31H	APCO_Miller_AshPond				GW	G	4/24/2023	14:30	1				X	X	X				031
2	BD08214	APCO-MR-AP-MW-36HR	APCO_Miller_AshPond				GW	G	4/25/2023	12:48	1				X	X	X				032
3	BD08215	APCO-MR-AP-MW-27HR	APCO_Miller_AshPond				GW	G	4/25/2023	14:42	1				X	X	X				033
4	BD08216	APCO-MR-AP-FB-01	APCO_Miller_AshPond				GW	G	4/25/2023	15:35	1				X	X	X				034
5	BD08217	APCO-MR-AP-MW-30H	APCO_Miller_AshPond				GW	G	4/26/2023	10:30	1				X	X	X				035
6	BD08687	APCO-MR-AP-MW-23A	APCO_Miller_AshPond				GW	G	5/1/2023	12:03	1				X	X	X				036
7	BD08688	APCO-MR-AP-MW-23	APCO_Miller_AshPond				GW	G	5/1/2023	14:23	1				X	X	X				037
8	BD08689	APCO-MR-AP-EB-01	APCO_Miller_AshPond				GW	G	5/1/2023	15:35	1				X	X	X				038
9	BD08690	APCO-MR-AP-MW-4V	APCO_Miller_AshPond				GW	G	5/2/2023	8:36	1				X	X	X				039
10	BD08691	APCO-MR-AP-MW-4	APCO_Miller_AshPond				GW	G	5/2/2023	9:39	1				X	X	X				040
11	BD08692	APCO-MR-AP-MW-3S	APCO_Miller_AshPond				GW	G	5/2/2023	10:50	1				X	X	X				041
12	BD08693	APCO-MR-AP-MW-3D	APCO_Miller_AshPond				GW	G	5/2/2023	11:57	1				X	X	X				042

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Catton	5/5/2023	11:51				
				<i>RWP 2024</i>	5/16/23	10:30	

W0#: 30586893

PW: SCR Due Date: 06/08/23

CLIENT: ALABAMA PWR

9 of 101

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	
DATE Signed:	

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 35040 Email To: igatner@southernco.com Phone: 205-684-6101 Requested Due Date: Normal	Section B Required Project Information: Report To: Brooke Caton Copy To: Renee Jernigan & Blaine Denton Purchase Order #: APC10755638 Project Name: Plant Miller Ash Pond Project Number: WVMWMLAP_1408
Section C Invoice Information: Attention: Brooke Caton Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 Pace Quote: CCR Pace Project Manager: Skyler Richmond Pace Profile #: 16788	Regulatory Agency: AL State / Location: AL

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	COLLECTED		Matrix Spike/Matrix Spike Duplicate	Field Filtered	SAMPLE TYPE (G=GRAB C=COMP)	# OF CONTAINERS	Requested Analysis Filtered (Y/N)				TEMP in C					
				START DATE	TIME					Unpreserved	NaOH/ZnAcetate	HNO3	Preservatives		Y/N	Analyses Test	EPA 8315	EPA 8320	Total Radium Sum
1	MW-14R	APCO-MR-AP-MW-14R	APCO_Miller_AshPond		13:24			G	1			X	X	X					043
2	MW-21	APCO-MR-AP-MW-21	APCO_Miller_AshPond		15:03			G	1			X	X	X					044
3	FB-5	APCO-MR-AP-FB-05	APCO_Miller_AshPond		16:00			G	1			X	X	X					045
4	MW-10	APCO-MR-AP-MW-10	APCO_Miller_AshPond		8:17			G	1			X	X	X					046
5	MW-12	APCO-MR-AP-MW-12	APCO_Miller_AshPond		10:01			G	1			X	X	X					047
6	MW-9DR	APCO-MR-AP-MW-9DR	APCO_Miller_AshPond		11:34			G	1			X	X	X					048
7	MW-9SR	APCO-MR-AP-MW-9SR	APCO_Miller_AshPond		12:47			G	1			X	X	X					049
8	EB-2	APCO-MR-AP-EB-02	APCO_Miller_AshPond		13:30			G	1			X	X	X					050
9	MW-22J	APCO-MR-AP-MW-22J	APCO_Miller_AshPond		15:28			G	1			X	X	X					051
10	MW-19HA	APCO-MR-AP-MW-19HA	APCO_Miller_AshPond		14:23			G	1			X	X	X					052
11	MW-34H	APCO-MR-AP-MW-34H	APCO_Miller_AshPond		10:25			G	1			X	X	X					053
12	MW-18H	APCO-MR-AP-MW-18H	APCO_Miller_AshPond		11:55			G	1			X	X	X					054

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS
	DATE	TIME	DATE	TIME			
	Brooke Caton	5/5/2023	11:51				
					5/10/23	10:20	

W0# : 30586893

PH: SCR Due Date: 06/08/23

CLIENT: ALABAMA PMR

90 of 101

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:
 DATE Signed:

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company		Report To: Brooke Caton		Attention: Brooke Caton	
Address: 744 Highway 87 GSC Bldg #8		Copy To: Renee Jernigan & Blaine Denton		Company Name: Alabama Power Co.	
Calera, AL 35040		Purchase Order #: APC10755638		Address: 744 Highway 87 GSC Bldg #8	
Email To: igarner@southernco.com		Project Name: Plant Miller Ash Pond		CCR	
Phone: 205-664-6101 Fax:		Project Number: WMMMLAP_1408		Pace Quote: Skyler Richmond	
Requested Due Date: Normal		Pace Profile #:		16788	
Regulatory Agency		State / Location		AL	

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives			Analytes Test Y/N	EPA 9315	EPA 9320	Total Radium-Sum	Total Sulfide	Residual Chlorine (Y/N)
									START DATE	TIME		Unpreserved	NaOH/ZnAcetate	HNO3						
1	BD08706	APCO-MR-AP-MW-2	APCO_Miller_AshPond				GW	G	5/2/2023	13:52	1			X	X	X				055
2	BD08707	APCO-MR-AP-MW-11	APCO_Miller_AshPond				GW	G	5/3/2023	10:51	1			X	X	X				056
3	BD08708	APCO-MR-AP-FB-04	APCO_Miller_AshPond				GW	G	5/3/2023	13:00	1			X	X	X				057
4	BD08709	APCO-MR-AP-MW-22D	APCO_Miller_AshPond				GW	G	5/3/2023	14:55	1			X	X	X				058
5	BD08710	APCO-MR-AP-MW-22S	APCO_Miller_AshPond				GW	G	5/3/2023	16:00	1			X	X	X				059
6	BD08711	MW-22S Dup	APCO_Miller_AshPond	X			GW	G	5/3/2023	16:00	1			X	X	X				060
7	BD08712	APCO-MR-AP-MW-1	APCO_Miller_AshPond				GW	G	5/2/2023	13:10	1			X	X	X				061
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton	5/5/2023	11:51	<i>Brooke Caton</i>	5/16/23	10:20	

W0# : 30586893

RM: SCR Due Date: 06/08/23
 CLIENT: ALABAMA PWR

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: _____
 DATE Signed: _____

TEMP in C _____
 Received on _____
 Custody (Y/N) _____
 Sealed _____
 Cooler (Y/N) _____
 Samples Intact (Y/N) _____



DC#_ Title: ENV-FRM-GBUR-0088 v04_Sample Condition Upon Receipt-
Pittsburgh

Effective Date: 02/03/2023

WO#: 30586893

PM: SCR

Due Date: 06/08/23

Client Name: Alabama Power

CLIENT: ALABAMA PWR

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 6368 8465 1823

Examined By	PS
Labeled By	PS
Temped By	

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Thermometer Used: _____ Type of Ice: Wet Blue None

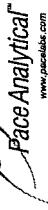
Cooler Temperature: Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:				pH paper Lot#	D.P.D. Residual Chlorine Lot #
	Yes	No	NA	1003121	
Chain of Custody Present	/				
Chain of Custody Filled Out:	/				
-Were client corrections present on COC		/			
Chain of Custody Relinquished		/			
Sampler Name & Signature on COC:		/			
Sample Labels match COC:	/				
-Includes date/time/ID					
Matrix:		WT			
Samples Arrived within Hold Time:	/				
Short Hold Time Analysis (<72hr remaining):		/			
Rush Turn Around Time Requested:		/			
Sufficient Volume:	/				
Correct Containers Used:	/				
-Pace Containers Used	/				
Containers Intact:	/				
Orthophosphate field filtered:			/		
Hex Cr Aqueous samples field filtered:			/		
Organic Samples checked for dechlorination			/		
Filtered volume received for dissolved tests:			/		
All containers checked for preservation:	/				
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix					
All containers meet method preservation requirements:	/			PHC2	
				Initial when completed PS	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			/		
624.1: Headspace in VOA Vials (0mm)			/		
Trip Blank Present:			/		Trip blank custody seal present? YES or NO
Rad Samples Screened <0.5 mrem/hr.	/			Initial when completed PS	Date: 2/11/23 Survey Meter SN: 1563
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Test: Ra-228
 Analyst: VAL
 Date: 6/1/2023
 Worklist: 73450
 Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID: 2873464
 MB concentration: 0.898
 M/B 2 Sigma CSU: 0.409
 MB MDC: 0.680
 MB Numerical Performance Indicator: 4.30
 MB Status vs Numerical Indicator: Fail*
 MB Status vs. MDC: See Comment*

Laboratory Control Sample Assessment

LCSID (Y or N)?	N
LCS73450	LCS73450
6/6/2023	
22-040	
32.336	
0.10	
0.803	
4.027	
0.197	
4.249	
0.938	
0.45	
105.51%	
N/A	
Pass	
135%	
60%	

Count Date: 6/6/2023
 Spike I.D.: 22-040
 Decay Corrected Spike Concentration (pCi/mL): 32.336
 Volume Used (mL): 0.10
 Aliquot Volume (L, g, F): 0.803
 Target Conc. (pCi/L, g, F): 4.027
 Uncertainty (Calculated): 0.197
 Result (pCi/L, g, F): 4.249
 LCS/LCSD 2 Sigma CSU (pCi/L, g, F): 0.938
 Numerical Performance Indicator: 0.45
 Percent Recovery: 105.51%
 Status vs Numerical Indicator: N/A
 Status vs Recovery: Pass
 Upper % Recovery Limits: 135%
 Lower % Recovery Limits: 60%

Sample Matrix Spike Control Assessment

MS/MSD 1	MS/MSD 2
4/18/2023	
30566893001	
30566893002	
30566893003	
22-040	
32.866	
0.20	
0.20	
0.601	
8.203	
0.802	
8.200	
0.402	
0.402	
0.259	
0.322	
7.389	
1.494	
6.471	
1.325	
-1.332	
-2.742	
86.91%	
75.75%	
Warning	
Pass	
Pass	
135%	
60%	

MS/MSD Decay Corrected Spike Concentration (pCi/mL): 32.866
 Spike Volume Used in MS (mL): 0.20
 Spike Volume Used in MSD (mL): 0.20
 MS Aliquot (L, g, F): 0.601
 MS Target Conc. (pCi/L, g, F): 8.203
 MSD Aliquot (L, g, F): 0.802
 MSD Target Conc. (pCi/L, g, F): 8.200
 MS Spike Uncertainty (calculated): 0.402
 MSD Spike Uncertainty (calculated): 0.402
 Sample Result: 0.259
 Sample Matrix Spike Result: 0.322
 Matrix Matrix Spike Result: 7.389
 Sample Matrix Spike Duplicate Result: 1.494
 Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): 6.471
 MS Numerical Performance Indicator: 1.325
 MSD Numerical Performance Indicator: -1.332
 MS Percent Recovery: -2.742
 MSD Percent Recovery: 86.91%
 MS Status vs Numerical Indicator: 75.75%
 MS Status vs Numerical Indicator: Warning
 MS Status vs Recovery: Pass
 MS/MSD Upper % Recovery Limits: Pass
 MS/MSD Lower % Recovery Limits: 135%
 % RPD Limit: 60%

Duplicate Sample Assessment

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample I.D.:
 Duplicate Sample I.D.:
 Sample Result (pCi/L, g, F):
 Duplicate Result (pCi/L, g, F):
 Sample Result 2 Sigma CSU (pCi/L, g, F):
 Duplicate Result 2 Sigma CSU (pCi/L, g, F):
 Are sample and/or duplicate results below RL?
 Duplicate Numerical Performance Indicator:
 Duplicate RPD:
 Duplicate Status vs Numerical Indicator:
 Duplicate Status vs RPD:
 % RPD Limit:

See Below ##

Matrix Spike/Matrix Spike Duplicate Sample Assessment

30566893001	
30566893002	
30566893003	
7.389	
1.494	
6.471	
1.325	
0.902	
13.72%	
Pass	
Pass	
36%	

Sample I.D.: 30566893001
 Sample MS I.D.: 30566893002
 Sample MSD I.D.: 30566893003
 Matrix Matrix Spike Result: 7.389
 Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): 1.494
 Sample Matrix Spike Duplicate Result: 6.471
 Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): 1.325
 Duplicate Numerical Performance Indicator: 0.902
 Duplicate Numerical Performance Indicator: 13.72%
 Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD:
 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:
 *The method blank result is below the reporting limit for this analysis and is acceptable.

6-7-23
 JSS

SLC 6/1/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 5/18/2023
Worklist: 73191
Matrix: WT

Method Blank Assessment	
MB Sample ID	2858621
MB concentration:	0.082
M/B 2 Sigma CSU:	0.088
MB MDC:	0.169
MB Numerical Performance Indicator:	1.83
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	Y	N
Count Date:	6/2/2023	LCS/D73191
Spike I.D.:	19-033	6/2/2023
Decay Corrected Spike Concentration (pCi/mL):	24.016	24.016
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.505
Target Conc. (pCi/L, g, F):	4.792	4.760
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	5.027	4.728
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.881	0.843
Numerical Performance Indicator:	0.52	-0.07
Percent Recovery:	104.90%	99.32%
Status vs Numerical Indicator:	Pass	Pass
Upper % Recovery Limits:	N/A	N/A
Lower % Recovery Limits:	125%	75%

Duplicate Sample Assessment	Y	N
Sample I.D.:	LCS73191	LCS73191
Duplicate Sample I.D.:	LCS73191	LCS73191
Duplicate Result (pCi/L, g, F):	5.027	5.027
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.881	0.881
Sample Duplicate Result (pCi/L, g, F):	4.728	4.728
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.843	0.843
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator:	0.480	0.480
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.46%	5.46%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/18/2023	4/19/2023
Sample I.D.:	30586893001	30586893013
Sample MS I.D.:	30586893002	30586893014
Sample MSD I.D.:	30586893003	30586893015
Spike I.D.:	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.018	24.018
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.204	0.200
MS Target Conc. (pCi/L, g, F):	23.563	24.057
MSD Aliquot (L, g, F):	0.205	0.207
MSD Target Conc. (pCi/L, g, F):	23.407	23.239
MSD Spike Uncertainty (calculated):	0.283	0.289
MS Numerical Performance Indicator:	0.281	0.279
MSD Numerical Performance Indicator:	0.238	0.387
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.226	0.275
Sample Matrix Spike Result:	26.319	26.146
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	4.197	4.207
Sample Matrix Spike Duplicate Result:	25.198	24.355
MS Numerical Performance Indicator:	4.045	3.933
MSD Numerical Performance Indicator:	1.171	0.789
MS Percent Recovery:	0.750	0.362
MSD Percent Recovery:	110.68%	107.07%
MS Status vs Numerical Indicator:	106.64%	103.14%
MSD Status vs Numerical Indicator:	Pass	Pass
MS/MSD Upper % Recovery Limits:	Pass	Pass
MS/MSD Lower % Recovery Limits:	N/A	N/A
	125%	125%
	75%	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:	30586893001	30586893013
Sample MS I.D.:	30586893002	30586893014
Sample MSD I.D.:	30586893003	30586893015
Spike I.D.:	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.018	24.018
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.204	0.200
MS Target Conc. (pCi/L, g, F):	23.563	24.057
MSD Aliquot (L, g, F):	0.205	0.207
MSD Target Conc. (pCi/L, g, F):	23.407	23.239
MSD Spike Uncertainty (calculated):	0.283	0.289
MS Numerical Performance Indicator:	0.281	0.279
MSD Numerical Performance Indicator:	0.238	0.387
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.226	0.275
Sample Matrix Spike Result:	26.319	26.146
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	4.197	4.207
Sample Matrix Spike Duplicate Result:	25.198	24.355
MS Numerical Performance Indicator:	4.045	3.933
MSD Numerical Performance Indicator:	1.171	0.789
MS Percent Recovery:	0.750	0.362
MSD Percent Recovery:	110.68%	107.07%
MS Status vs Numerical Indicator:	106.64%	103.14%
MSD Status vs Numerical Indicator:	Pass	Pass
MS/MSD Upper % Recovery Limits:	Pass	Pass
MS/MSD Lower % Recovery Limits:	N/A	N/A
	125%	125%
	75%	75%

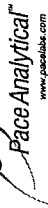
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET
6-2-23

VAM 6/2/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: ZPC
Date: 6/11/2023
Worklist: 73451
Matrix: WT

Method Blank Assessment	
MB Sample ID	2873467
MB concentration:	-0.140
MB 2 Sigma CSU:	0.268
MB MDC:	0.656
MB Numerical Performance Indicator:	-1.03
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD73451	LCSD73451
Count Date:	6/7/2023
Spike I.D.:	22-040
Decay Corrected Spike Concentration (pCi/mL):	32.327
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.806
Target Conc. (pCi/L, g, F):	4.013
Uncertainty (Calculated):	0.197
Result (pCi/L, g, F):	1.648
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.529
Numerical Performance Indicator:	-8.21
Percent Recovery:	41.07%
Status vs Numerical Indicator:	Fail**
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

RT

Duplicate Sample Assessment	
Sample I.D.:	Sample I.D.:
Duplicate Sample I.D.:	Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):	Sample Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Result 2 Sigma CSU (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?	
Duplicate Numerical Performance Indicator:	Duplicate RPD:
Duplicate Status vs Numerical Indicator:	Duplicate Status vs RPD:
	% RPD Limit:

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

See Below ##

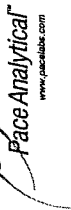
Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/19/2023		
Sample I.D.:	30586893013		
Sample MS I.D.:	30586893014		
Sample MSD I.D.:	30586893015		
Spike I.D.:	22-040		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.855		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.806		
MS Target Conc. (pCi/L, g, F):	8.153		
MSD Aliquot (L, g, F):	0.802		
MSD Target Conc. (pCi/L, g, F):	8.191		
MS Spike Uncertainty (calculated):	0.399		
MSD Spike Uncertainty (calculated):	0.401		
Sample Result:	0.292		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.279		
Sample Matrix Spike Result:	6.616		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.362		
Sample Matrix Spike Duplicate Result:	6.114		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.266		
MS Numerical Performance Indicator:	-2.478		
MSD Numerical Performance Indicator:	-3.421		
MS Percent Recovery:	77.58%		
MSD Percent Recovery:	71.08%		
MS Status vs Numerical Indicator:	Warning		
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.:	30586893013
Sample MS I.D.:	30586893014
Sample MSD I.D.:	30586893015
Sample Matrix Spike Result:	6.616
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.362
Sample Matrix Spike Duplicate Result:	6.114
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.266
Duplicate Numerical Performance Indicator:	0.530
Duplicate Status vs Numerical Indicator:	8.73%
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:
 **Batch must be re-prepped due to LCS failure.
 Reimgranth LCS to confirm June 12/23
 possible detector issue
 6/7/23
 6/12/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: ZPC
Date: 6/9/2023
Worklist: 73451
Matrix: WT

Method Blank Assessment

MB Sample ID
MB concentration:
MB 2 Sigma CSU:
MB MDC:
MB Numerical Performance Indicator:
MB Status vs Numerical Indicator:
MB Status vs. MDC:

LCSD (Y or N)?	N
LCSD73451	LCSD73451
Count Date:	6/12/2023
Spike I.D.:	22-040
Decay Corrected Spike Concentration (pCi/mL):	32.273
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.806
Target Conc. (pCi/L, g, F):	4.006
Uncertainty (Calculated):	0.196
Result (pCi/L, g, F):	4.820
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.059
Numerical Performance Indicator:	1.48
Percent Recovery:	120.33%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:</p> <p>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):</p> <p>Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: 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): MS Numerical Performance Indicator: MSD Numerical Performance Indicator:</p> <p>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 Limits: MS/MSD Lower % Recovery Limits:</p>		

Laboratory Control Sample Assessment	Duplicate Sample Assessment
<p>Enter Duplicate sample IDs if other than LCSD/LCSD in the space below.</p>	<p>Sample I.D.:</p> <p>Duplicate Sample I.D.:</p> <p>Sample Result (pCi/L, g, F):</p> <p>Sample Duplicate Result (pCi/L, g, F):</p> <p>Sample Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Are sample and/or duplicate results below RL?</p> <p>Duplicate Numerical Performance Indicator:</p> <p>Duplicate RPD:</p> <p>Duplicate Status vs Numerical Indicator:</p> <p>Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Sample 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: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:</p>

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Muller23
6-13-23
JSS

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 5/18/2023
Worklist: 73192
Matrix: DW

Method Blank Assessment	
MB Sample ID	2858622
MB concentration:	0.101
M/B Counting Uncertainty:	0.090
MB MDC:	0.162
MB Numerical Performance Indicator:	2.21
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCST73192	LCS/D73192
Count Date:	6/8/2023	6/8/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.016	24.016
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.507
Target Conc. (pCi/L, g, F):	4.774	4.737
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.877	5.786
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.491	0.546
Numerical Performance Indicator:	0.41	3.75
Percent Recovery:	102.15%	122.16%
Status vs Numerical Indicator:	N/A	N/A
Upper % Recovery Limits:	Pass	Pass
Lower % Recovery Limits:	125%	125%
	75%	75%

Duplicate Sample Assessment	LCS/D (Y or N)?
Sample I.D.:	LCST73192
Duplicate Sample I.D.:	LCS/D73192
Sample Result (pCi/L, g, F):	4.877
Duplicate Result (pCi/L, g, F):	0.491
Sample Result Counting Uncertainty (pCi/L, g, F):	5.786
Duplicate Counting Uncertainty (pCi/L, g, F):	0.546
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	NO
Duplicate Duplicate Result Counting Uncertainty (pCi/L, g, F):	-2.426
Are sample and/or duplicate results below RL?	17.84%
Duplicate Numerical Performance Indicator:	N/A
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	25%
% RPD Limit:	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/24/2023	
Sample I.D.:	30586893021	
Sample MS I.D.:	30586893022	
Sample MSD I.D.:	30586893023	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.017	
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):	23.008	
MSD Aliquot (L, g, F):	0.205	
MSD Target Conc. (pCi/L, g, F):	23.475	
MS Spike Uncertainty (calculated):	0.276	
MSD Spike Uncertainty (calculated):	0.282	
Sample Result:	0.404	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.242	
Sample Matrix Spike Result:	27.213	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.723	
Sample Matrix Spike Duplicate Result:	25.142	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.656	
MS Numerical Performance Indicator:	4.230	
MSD Numerical Performance Indicator:	1.459	
MS Percent Recovery:	116.52%	
MSD Percent Recovery:	105.38%	
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.:	30586893021
Sample MS I.D.:	30586893022
Sample MSD I.D.:	30586893023
Spike I.D.:	19-033
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	27.213
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	25.142
Sample Matrix Spike Duplicate Result:	1.656
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.699
Duplicate Numerical Performance Indicator:	10.04%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	N/A
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	25%
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

EIT
6-8-23

UAM 6/8/23

Quality Control Sample Performance Assessment



Test: Ra-228
 Analyst: VAL
 Date: 6/2/2023
 Worklist: 73452
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2873478
MB concentration:	0.270
M/B 2 Sigma CSU:	0.281
MB MDC:	0.578
MB Numerical Performance Indicator:	1.88
MB Status vs. Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS73452	LCS73452
Count Date:	6/7/2023	N
Spike I.D.:	22-040	
Decay Corrected Spike Concentration (pCi/mL):	32.327	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.801	
Target Conc. (pCi/L, g, F):	4.035	
Uncertainty (Calculated):	0.198	
Result (pCi/L, g, F):	3.505	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.835	
Numerical Performance Indicator:	-1.21	
Percent Recovery:	86.88%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
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:

Mu18/23

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/24/2023	
Sample I.D.:	30586893021	
Sample MS I.D.:	30586893022	
Sample MSD I.D.:	30586893023	
Spike I.D.:	22-040	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.800	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.805	
MS Target Conc. (pCi/L, g, F):	8.154	
MSD Aliquot (L, g, F):	0.803	
MSD Target Conc. (pCi/L, g, F):	8.167	
MS Spike Uncertainty (calculated):	0.400	
MSD Spike Uncertainty (calculated):	0.400	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.400	
Sample Matrix Spike Result:	0.359	
Sample Matrix Spike Result:	7.097	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.472	
Sample Matrix Spike Duplicate Result:	7.063	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.449	
MS Numerical Performance Indicator:	-1.823	
MSD Numerical Performance Indicator:	-1.906	
MS Percent Recovery:	82.13%	
MSD Percent Recovery:	81.59%	
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.:	30586893021
Sample MS I.D.:	30586893022
Sample MSD I.D.:	30586893023
Sample Matrix Spike Result:	7.097
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.472
Sample Matrix Spike Duplicate Result:	7.063
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.449
Duplicate Numerical Performance Indicator:	0.032
Duplicate Numerical Performance Indicator:	0.66%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 5/19/2023
Worklist: 73193
Matrix: WT

Method Blank Assessment	
MB Sample ID	2858623
MB concentration:	0.198
MB 2 Sigma CSU:	0.124
MB MDC:	0.198
MB Numerical Performance Indicator:	3.13
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		Y
LCS D (Y or N)?		LCS D73193
Count Date:	6/8/2023	6/8/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.016	24.016
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.502
Target Conc. (pCi/L, g, F):	4.791	4.785
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.694	5.051
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.967	0.903
Numerical Performance Indicator:	1.83	0.58
Percent Recovery:	118.84%	105.55%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		Y
Sample I.D.:	30586893038	30586893038
Duplicate Sample I.D.:	30586893038DUP	30586893038DUP
Sample Result (pCi/L, g, F):	5.694	0.289
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.967	0.312
Sample Duplicate Result (pCi/L, g, F):	5.051	0.305
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.903	0.336
Are sample and/or duplicate results below RL?	NO	See Below #
Duplicate Numerical Performance Indicator:	0.952	-0.069
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.84%	5.41%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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.

6/8/23
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MANU 6/18/23

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 Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS 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 Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result: 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:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 5/19/2023
Worklist: 73194
Matrix: WT



Method Blank Assessment	
MB Sample ID	2856624
MB concentration:	-0.010
M/B 2 Sigma CSU:	0.053
MB MDC:	0.160
MB Numerical Performance Indicator:	-0.36
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD73194	LCSD73194
Count Date:	6/8/2023	6/8/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.016	24.016
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.507
Target Conc. (pCi/L, g, F):	4.790	4.734
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.499	4.941
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.965	0.850
Numerical Performance Indicator:	1.44	0.48
Percent Recovery:	114.80%	104.37%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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: 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS 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 Limits: MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment	LCSD (Y or N)?
Sample I.D.:	LCSD73194
Duplicate Sample I.D.:	LCSD73194
Sample Result (pCi/L, g, F):	5.499
Duplicate Result (pCi/L, g, F):	0.965
Sample Result 2 Sigma CSU (pCi/L, g, F):	4.941
Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.850
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.850
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	9.53%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result: 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:

UAM 6/18/23

ET
6/25/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: ZPC
Date: 6/2/2023
Worklist: 73453
Matrix: WT

Method Blank Assessment	
MB Sample ID	2873483
MB concentration:	0.523
M/B 2 Sigma CSU:	0.334
MB MDC:	0.623
MB Numerical Performance Indicator:	3.07
MB Status vs. Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD73453	N LCSD73453
Count Date:	6/7/2023	
Spike I.D.:	22-040	
Decay Corrected Spike Concentration (pCi/mL):	32.326	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.808	
Target Conc. (pCi/L, g, F):	4.001	
Uncertainty (Calculated):	0.196	
Result (pCi/L, g, F):	2.860	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.741	
Numerical Performance Indicator:	-2.92	
Percent Recovery:	71.49%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
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:
*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-prepared.

MB activity < MDC, Pass

June 12/23

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/15/2023	5/17/2023
Sample I.D.:	30590562001	30590556001
Sample MS I.D.:	30590562002	30590556002
Sample MSD I.D.:	30590562003	30590556003
Spike I.D.:	22-040	22-040
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.572	32.572
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.807	0.805
MS Target Conc. (pCi/L, g, F):	8.074	8.093
MSD Aliquot (L, g, F):	0.807	0.807
MSD Target Conc. (pCi/L, g, F):	8.069	8.073
MSD Spike Uncertainty (calculated):	0.396	0.397
MSD Numerical Performance Indicator:	0.395	0.396
Sample Result:	0.467	0.335
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.320	0.356
Sample Matrix Spike Result:	8.746	5.364
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.762	1.174
Sample Matrix Spike Duplicate Result:	8.058	6.737
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.645	1.435
MS Numerical Performance Indicator:	0.220	-4.656
MSD Numerical Performance Indicator:	-0.544	-2.139
MS Percent Recovery:	102.55%	62.15%
MSD Percent Recovery:	94.08%	79.30%
MS Status vs Numerical Indicator:	Pass	Warning
MS Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:	30590562001	30590556001
Sample MS I.D.:	30590562002	30590556002
Sample MSD I.D.:	30590562003	30590556003
Spike I.D.:	22-040	22-040
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.762	1.174
Sample Matrix Spike Duplicate Result:	8.058	6.737
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.645	1.435
Duplicate Numerical Performance Indicator:	0.560	-1.451
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	8.61%	24.25%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

SLC 6/8/23

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative



Miller Ash Pond

2023 Compliance Event 2

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

No samples were collected for well MW-4V due to insufficient water levels in the well.

TOC only was recollected for well MW-12 on 10/11/2023. Field data uploaded for MW-12 represents data collected on the original sample date of 10/02/2023.

The first 17 field readings for pH at MW-1 were qualified due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-5	COND	Conductivity	10/4/2023 11:57	1100.48	uS/cm
MR-AP-MW-5	DO	DO	10/4/2023 11:57	0.03	mg/L
MR-AP-MW-5	DTW	Depth to Water Detail	10/4/2023 11:57	0	ft
MR-AP-MW-5	ORP	Oxidation Reduction Potention	10/4/2023 11:57	-89.52	mv
MR-AP-MW-5	PH	pH	10/4/2023 11:57	7.1	SU
MR-AP-MW-5	TEMP	Temperature	10/4/2023 11:57	18.41	C
MR-AP-MW-5	TURB	Turbidity	10/4/2023 11:57	2.67	NTU
MR-AP-MW-5	COND	Conductivity	10/4/2023 12:02	1095.45	uS/cm
MR-AP-MW-5	DO	DO	10/4/2023 12:02	0.03	mg/L
MR-AP-MW-5	DTW	Depth to Water Detail	10/4/2023 12:02	0	ft
MR-AP-MW-5	ORP	Oxidation Reduction Potention	10/4/2023 12:02	-93.2	mv
MR-AP-MW-5	PH	pH	10/4/2023 12:02	7.1	SU
MR-AP-MW-5	TEMP	Temperature	10/4/2023 12:02	18.47	C
MR-AP-MW-5	TURB	Turbidity	10/4/2023 12:02	2.58	NTU
MR-AP-MW-5	COND	Conductivity	10/4/2023 12:07	1093.5	uS/cm
MR-AP-MW-5	DO	DO	10/4/2023 12:07	0	mg/L
MR-AP-MW-5	DTW	Depth to Water Detail	10/4/2023 12:07	0	ft
MR-AP-MW-5	ORP	Oxidation Reduction Potention	10/4/2023 12:07	-96.03	mv
MR-AP-MW-5	PH	pH	10/4/2023 12:07	7.1	SU
MR-AP-MW-5	TEMP	Temperature	10/4/2023 12:07	18.54	C
MR-AP-MW-5	TURB	Turbidity	10/4/2023 12:07	2.59	NTU
MR-AP-MW-5	COND	Conductivity	10/4/2023 12:12	1090.04	uS/cm
MR-AP-MW-5	DO	DO	10/4/2023 12:12	0.05	mg/L
MR-AP-MW-5	DTW	Depth to Water Detail	10/4/2023 12:12	0	ft
MR-AP-MW-5	ORP	Oxidation Reduction Potention	10/4/2023 12:12	-98.23	mv
MR-AP-MW-5	PH	pH	10/4/2023 12:12	7.1	SU
MR-AP-MW-5	SULFIDE	Sulfide	10/4/2023 12:12	0	mg/L
MR-AP-MW-5	TEMP	Temperature	10/4/2023 12:12	18.65	C
MR-AP-MW-5	TURB	Turbidity	10/4/2023 12:12	2.61	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-6	COND	Conductivity	10/3/2023 11:06	893.34	uS/cm
MR-AP-MW-6	DO	DO	10/3/2023 11:06	0.12	mg/L
MR-AP-MW-6	DTW	Depth to Water Detail	10/3/2023 11:06	16.6	ft
MR-AP-MW-6	ORP	Oxidation Reduction Potention	10/3/2023 11:06	-29.19	mv
MR-AP-MW-6	PH	pH	10/3/2023 11:06	6.4	SU
MR-AP-MW-6	TEMP	Temperature	10/3/2023 11:06	20.74	C
MR-AP-MW-6	TURB	Turbidity	10/3/2023 11:06	6.16	NTU
MR-AP-MW-6	COND	Conductivity	10/3/2023 11:11	880.64	uS/cm
MR-AP-MW-6	DO	DO	10/3/2023 11:11	0.07	mg/L
MR-AP-MW-6	DTW	Depth to Water Detail	10/3/2023 11:11	16.71	ft
MR-AP-MW-6	ORP	Oxidation Reduction Potention	10/3/2023 11:11	-41.65	mv
MR-AP-MW-6	PH	pH	10/3/2023 11:11	6.41	SU
MR-AP-MW-6	TEMP	Temperature	10/3/2023 11:11	20.46	C
MR-AP-MW-6	TURB	Turbidity	10/3/2023 11:11	5.22	NTU
MR-AP-MW-6	COND	Conductivity	10/3/2023 11:16	904.7	uS/cm
MR-AP-MW-6	DO	DO	10/3/2023 11:16	0.07	mg/L
MR-AP-MW-6	DTW	Depth to Water Detail	10/3/2023 11:16	16.82	ft
MR-AP-MW-6	ORP	Oxidation Reduction Potention	10/3/2023 11:16	-41.92	mv
MR-AP-MW-6	PH	pH	10/3/2023 11:16	6.33	SU
MR-AP-MW-6	TEMP	Temperature	10/3/2023 11:16	20.39	C
MR-AP-MW-6	TURB	Turbidity	10/3/2023 11:16	3.61	NTU
MR-AP-MW-6	COND	Conductivity	10/3/2023 11:21	905.9	uS/cm
MR-AP-MW-6	DO	DO	10/3/2023 11:21	0.07	mg/L
MR-AP-MW-6	DTW	Depth to Water Detail	10/3/2023 11:21	16.9	ft
MR-AP-MW-6	ORP	Oxidation Reduction Potention	10/3/2023 11:21	-41.99	mv
MR-AP-MW-6	PH	pH	10/3/2023 11:21	6.3	SU
MR-AP-MW-6	SULFIDE	Sulfide	10/3/2023 11:21	0	mg/L
MR-AP-MW-6	TEMP	Temperature	10/3/2023 11:21	20.34	C
MR-AP-MW-6	TURB	Turbidity	10/3/2023 11:21	3.18	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-6V	COND	Conductivity	10/3/2023 8:53	1291.74	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 8:53	4.31	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 8:53	116.97	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	10/3/2023 8:53	-36.92	mv
MR-AP-MW-6V	PH	pH	10/3/2023 8:53	7.29	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 8:53	19.81	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 8:53	23.8	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 8:58	1285.94	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 8:58	4.3	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 8:58	117.01	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	10/3/2023 8:58	-43.64	mv
MR-AP-MW-6V	PH	pH	10/3/2023 8:58	7.36	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 8:58	20.18	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 8:58	20.4	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:03	1165.22	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:03	5.15	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:03	117.1	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	10/3/2023 9:03	-58.95	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:03	7.49	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:03	20.02	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:03	18.6	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:08	1048.64	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:08	6.14	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:08	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	10/3/2023 9:08	-59.3	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:08	7.61	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:08	19.9	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:08	13.2	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:13	949.08	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:13	7.09	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:13	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	10/3/2023 9:13	-58.27	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:13	7.76	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:13	20.03	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:13	9.21	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:18	887.17	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:18	7.43	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:18	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	10/3/2023 9:18	-54.7	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:18	7.83	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:18	20.14	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:18	6.13	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:23	831.14	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:23	7.49	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:23	117.21	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	10/3/2023 9:23	-50.16	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:23	7.85	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:23	20.22	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:23	5.68	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:28	776.62	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:28	7.57	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:28	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	10/3/2023 9:28	-46.17	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:28	7.87	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:28	20.37	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:28	4.65	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:33	732.97	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:33	7.56	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:33	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	10/3/2023 9:33	-42.56	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:33	7.88	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:33	20.46	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:33	4.27	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:38	700.12	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:38	7.53	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:38	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	10/3/2023 9:38	-39.29	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:38	7.89	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:38	20.66	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:38	4.11	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:43	671.64	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:43	7.51	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:43	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	10/3/2023 9:43	-36.08	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:43	7.89	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:43	20.63	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:43	4.12	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:48	653.1	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:48	7.49	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:48	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	10/3/2023 9:48	-33.52	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:48	7.89	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:48	20.9	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:48	4.02	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:53	641.97	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:53	6.44	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:53	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potential	10/3/2023 9:53	-31.16	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:53	7.89	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:53	21.06	C

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:53	4.19	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 9:58	649.34	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 9:58	7.77	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 9:58	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	10/3/2023 9:58	64.77	mv
MR-AP-MW-6V	PH	pH	10/3/2023 9:58	7.88	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 9:58	21	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 9:58	3.92	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 10:03	644.28	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 10:03	7.78	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 10:03	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	10/3/2023 10:03	6.32	mv
MR-AP-MW-6V	PH	pH	10/3/2023 10:03	7.88	SU
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 10:03	21.12	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 10:03	4.01	NTU
MR-AP-MW-6V	COND	Conductivity	10/3/2023 10:08	638.48	uS/cm
MR-AP-MW-6V	DO	DO	10/3/2023 10:08	7.74	mg/L
MR-AP-MW-6V	DTW	Depth to Water Detail	10/3/2023 10:08	117.21	ft
MR-AP-MW-6V	ORP	Oxidation Reduction Potention	10/3/2023 10:08	-7.64	mv
MR-AP-MW-6V	PH	pH	10/3/2023 10:08	7.87	SU
MR-AP-MW-6V	SULFIDE	Sulfide	10/3/2023 10:08	0	mg/L
MR-AP-MW-6V	TEMP	Temperature	10/3/2023 10:08	21.12	C
MR-AP-MW-6V	TURB	Turbidity	10/3/2023 10:08	4.04	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-7DR	COND	Conductivity	10/3/2023 12:00	1318.2	uS/cm
MR-AP-MW-7DR	DO	DO	10/3/2023 12:00	0.14	mg/L
MR-AP-MW-7DR	DTW	Depth to Water Detail	10/3/2023 12:00	77.56	ft
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	10/3/2023 12:00	-44.03	mv
MR-AP-MW-7DR	PH	pH	10/3/2023 12:00	6.67	SU
MR-AP-MW-7DR	TEMP	Temperature	10/3/2023 12:00	18.18	C
MR-AP-MW-7DR	TURB	Turbidity	10/3/2023 12:00	2.48	NTU
MR-AP-MW-7DR	COND	Conductivity	10/3/2023 12:05	1223.07	uS/cm
MR-AP-MW-7DR	DO	DO	10/3/2023 12:05	0.1	mg/L
MR-AP-MW-7DR	DTW	Depth to Water Detail	10/3/2023 12:05	77.6	ft
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	10/3/2023 12:05	-44.73	mv
MR-AP-MW-7DR	PH	pH	10/3/2023 12:05	6.66	SU
MR-AP-MW-7DR	TEMP	Temperature	10/3/2023 12:05	18.15	C
MR-AP-MW-7DR	TURB	Turbidity	10/3/2023 12:05	2.32	NTU
MR-AP-MW-7DR	COND	Conductivity	10/3/2023 12:10	1146.22	uS/cm
MR-AP-MW-7DR	DO	DO	10/3/2023 12:10	0.1	mg/L
MR-AP-MW-7DR	DTW	Depth to Water Detail	10/3/2023 12:10	77.6	ft
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	10/3/2023 12:10	-44.54	mv
MR-AP-MW-7DR	PH	pH	10/3/2023 12:10	6.65	SU
MR-AP-MW-7DR	TEMP	Temperature	10/3/2023 12:10	18.23	C
MR-AP-MW-7DR	TURB	Turbidity	10/3/2023 12:10	1.77	NTU
MR-AP-MW-7DR	COND	Conductivity	10/3/2023 12:15	1087.42	uS/cm
MR-AP-MW-7DR	DO	DO	10/3/2023 12:15	0.1	mg/L
MR-AP-MW-7DR	DTW	Depth to Water Detail	10/3/2023 12:15	77.6	ft
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	10/3/2023 12:15	-43.54	mv
MR-AP-MW-7DR	PH	pH	10/3/2023 12:15	6.64	SU
MR-AP-MW-7DR	TEMP	Temperature	10/3/2023 12:15	18.28	C
MR-AP-MW-7DR	TURB	Turbidity	10/3/2023 12:15	1.72	NTU
MR-AP-MW-7DR	COND	Conductivity	10/3/2023 12:20	1061.36	uS/cm
MR-AP-MW-7DR	DO	DO	10/3/2023 12:20	0.1	mg/L
MR-AP-MW-7DR	DTW	Depth to Water Detail	10/3/2023 12:20	77.6	ft
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	10/3/2023 12:20	-42.93	mv
MR-AP-MW-7DR	PH	pH	10/3/2023 12:20	6.63	SU
MR-AP-MW-7DR	TEMP	Temperature	10/3/2023 12:20	18.25	C
MR-AP-MW-7DR	TURB	Turbidity	10/3/2023 12:20	1.62	NTU
MR-AP-MW-7DR	COND	Conductivity	10/3/2023 12:25	1046.39	uS/cm
MR-AP-MW-7DR	DO	DO	10/3/2023 12:25	0.1	mg/L
MR-AP-MW-7DR	DTW	Depth to Water Detail	10/3/2023 12:25	77.6	ft
MR-AP-MW-7DR	ORP	Oxidation Reduction Potention	10/3/2023 12:25	-42.29	mv
MR-AP-MW-7DR	PH	pH	10/3/2023 12:25	6.62	SU
MR-AP-MW-7DR	SULFIDE	Sulfide	10/3/2023 12:25	0	mg/L
MR-AP-MW-7DR	TEMP	Temperature	10/3/2023 12:25	18.31	C
MR-AP-MW-7DR	TURB	Turbidity	10/3/2023 12:25	1.67	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-7SR	COND	Conductivity	10/3/2023 13:21	805.8	uS/cm
MR-AP-MW-7SR	DO	DO	10/3/2023 13:21	0.04	mg/L
MR-AP-MW-7SR	DTW	Depth to Water Detail	10/3/2023 13:21	18.43	ft
MR-AP-MW-7SR	ORP	Oxidation Reduction Potention	10/3/2023 13:21	-26.31	mv
MR-AP-MW-7SR	PH	pH	10/3/2023 13:21	6.31	SU
MR-AP-MW-7SR	TEMP	Temperature	10/3/2023 13:21	18.46	C
MR-AP-MW-7SR	TURB	Turbidity	10/3/2023 13:21	2.02	NTU
MR-AP-MW-7SR	COND	Conductivity	10/3/2023 13:26	803.04	uS/cm
MR-AP-MW-7SR	DO	DO	10/3/2023 13:26	0.04	mg/L
MR-AP-MW-7SR	DTW	Depth to Water Detail	10/3/2023 13:26	18.82	ft
MR-AP-MW-7SR	ORP	Oxidation Reduction Potention	10/3/2023 13:26	-27.41	mv
MR-AP-MW-7SR	PH	pH	10/3/2023 13:26	6.32	SU
MR-AP-MW-7SR	TEMP	Temperature	10/3/2023 13:26	18.37	C
MR-AP-MW-7SR	TURB	Turbidity	10/3/2023 13:26	1.89	NTU
MR-AP-MW-7SR	COND	Conductivity	10/3/2023 13:31	803.23	uS/cm
MR-AP-MW-7SR	DO	DO	10/3/2023 13:31	0.04	mg/L
MR-AP-MW-7SR	DTW	Depth to Water Detail	10/3/2023 13:31	18.95	ft
MR-AP-MW-7SR	ORP	Oxidation Reduction Potention	10/3/2023 13:31	-31.06	mv
MR-AP-MW-7SR	PH	pH	10/3/2023 13:31	6.35	SU
MR-AP-MW-7SR	TEMP	Temperature	10/3/2023 13:31	18.47	C
MR-AP-MW-7SR	TURB	Turbidity	10/3/2023 13:31	1.5	NTU
MR-AP-MW-7SR	COND	Conductivity	10/3/2023 13:36	805.19	uS/cm
MR-AP-MW-7SR	DO	DO	10/3/2023 13:36	0.04	mg/L
MR-AP-MW-7SR	DTW	Depth to Water Detail	10/3/2023 13:36	18.95	ft
MR-AP-MW-7SR	ORP	Oxidation Reduction Potention	10/3/2023 13:36	-34.59	mv
MR-AP-MW-7SR	PH	pH	10/3/2023 13:36	6.37	SU
MR-AP-MW-7SR	SULFIDE	Sulfide	10/3/2023 13:36	0	mg/L
MR-AP-MW-7SR	TEMP	Temperature	10/3/2023 13:36	18.48	C
MR-AP-MW-7SR	TURB	Turbidity	10/3/2023 13:36	1.56	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-20H	COND	Conductivity	10/4/2023 10:32	1162.55	uS/cm
MR-AP-MW-20H	DO	DO	10/4/2023 10:32	2.43	mg/L
MR-AP-MW-20H	DTW	Depth to Water Detail	10/4/2023 10:32	124.4	ft
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	10/4/2023 10:32	-83.7	mv
MR-AP-MW-20H	PH	pH	10/4/2023 10:32	6.82	SU
MR-AP-MW-20H	TEMP	Temperature	10/4/2023 10:32	20.36	C
MR-AP-MW-20H	TURB	Turbidity	10/4/2023 10:32	4.48	NTU
MR-AP-MW-20H	COND	Conductivity	10/4/2023 10:37	1182.58	uS/cm
MR-AP-MW-20H	DO	DO	10/4/2023 10:37	0.64	mg/L
MR-AP-MW-20H	DTW	Depth to Water Detail	10/4/2023 10:37	124.46	ft
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	10/4/2023 10:37	-86.58	mv
MR-AP-MW-20H	PH	pH	10/4/2023 10:37	7	SU
MR-AP-MW-20H	TEMP	Temperature	10/4/2023 10:37	20.03	C
MR-AP-MW-20H	TURB	Turbidity	10/4/2023 10:37	3.45	NTU
MR-AP-MW-20H	COND	Conductivity	10/4/2023 10:42	1178.52	uS/cm
MR-AP-MW-20H	DO	DO	10/4/2023 10:42	0.43	mg/L
MR-AP-MW-20H	DTW	Depth to Water Detail	10/4/2023 10:42	124.51	ft
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	10/4/2023 10:42	-92.21	mv
MR-AP-MW-20H	PH	pH	10/4/2023 10:42	7.12	SU
MR-AP-MW-20H	TEMP	Temperature	10/4/2023 10:42	19.86	C
MR-AP-MW-20H	TURB	Turbidity	10/4/2023 10:42	3.11	NTU
MR-AP-MW-20H	COND	Conductivity	10/4/2023 10:47	1176.49	uS/cm
MR-AP-MW-20H	DO	DO	10/4/2023 10:47	0.38	mg/L
MR-AP-MW-20H	DTW	Depth to Water Detail	10/4/2023 10:47	124.55	ft
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	10/4/2023 10:47	-97.66	mv
MR-AP-MW-20H	PH	pH	10/4/2023 10:47	7.18	SU
MR-AP-MW-20H	TEMP	Temperature	10/4/2023 10:47	20.05	C
MR-AP-MW-20H	TURB	Turbidity	10/4/2023 10:47	2.96	NTU
MR-AP-MW-20H	COND	Conductivity	10/4/2023 10:52	1171.73	uS/cm
MR-AP-MW-20H	DO	DO	10/4/2023 10:52	0.36	mg/L
MR-AP-MW-20H	DTW	Depth to Water Detail	10/4/2023 10:52	124.6	ft
MR-AP-MW-20H	ORP	Oxidation Reduction Potention	10/4/2023 10:52	-101.35	mv
MR-AP-MW-20H	PH	pH	10/4/2023 10:52	7.2	SU
MR-AP-MW-20H	SULFIDE	Sulfide	10/4/2023 10:52	0	mg/L
MR-AP-MW-20H	TEMP	Temperature	10/4/2023 10:52	20.02	C
MR-AP-MW-20H	TURB	Turbidity	10/4/2023 10:52	2.94	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-20HS	COND	Conductivity	10/3/2023 14:41	485.57	uS/cm
MR-AP-MW-20HS	DO	DO	10/3/2023 14:41	0.08	mg/L
MR-AP-MW-20HS	DTW	Depth to Water Detail	10/3/2023 14:41	58.69	ft
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	10/3/2023 14:41	-3.94	mv
MR-AP-MW-20HS	PH	pH	10/3/2023 14:41	6.22	SU
MR-AP-MW-20HS	TEMP	Temperature	10/3/2023 14:41	17.97	C
MR-AP-MW-20HS	TURB	Turbidity	10/3/2023 14:41	2.09	NTU
MR-AP-MW-20HS	COND	Conductivity	10/3/2023 14:46	489.05	uS/cm
MR-AP-MW-20HS	DO	DO	10/3/2023 14:46	0.09	mg/L
MR-AP-MW-20HS	DTW	Depth to Water Detail	10/3/2023 14:46	58.99	ft
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	10/3/2023 14:46	-5.23	mv
MR-AP-MW-20HS	PH	pH	10/3/2023 14:46	6.2	SU
MR-AP-MW-20HS	TEMP	Temperature	10/3/2023 14:46	17.94	C
MR-AP-MW-20HS	TURB	Turbidity	10/3/2023 14:46	2.12	NTU
MR-AP-MW-20HS	COND	Conductivity	10/3/2023 14:51	506.71	uS/cm
MR-AP-MW-20HS	DO	DO	10/3/2023 14:51	0.1	mg/L
MR-AP-MW-20HS	DTW	Depth to Water Detail	10/3/2023 14:51	59.76	ft
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	10/3/2023 14:51	-14.51	mv
MR-AP-MW-20HS	PH	pH	10/3/2023 14:51	6.25	SU
MR-AP-MW-20HS	TEMP	Temperature	10/3/2023 14:51	18.04	C
MR-AP-MW-20HS	TURB	Turbidity	10/3/2023 14:51	1.47	NTU
MR-AP-MW-20HS	COND	Conductivity	10/3/2023 14:56	555.45	uS/cm
MR-AP-MW-20HS	DO	DO	10/3/2023 14:56	0.09	mg/L
MR-AP-MW-20HS	DTW	Depth to Water Detail	10/3/2023 14:56	59.96	ft
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	10/3/2023 14:56	-25.74	mv
MR-AP-MW-20HS	PH	pH	10/3/2023 14:56	6.36	SU
MR-AP-MW-20HS	TEMP	Temperature	10/3/2023 14:56	18.05	C
MR-AP-MW-20HS	TURB	Turbidity	10/3/2023 14:56	1.52	NTU
MR-AP-MW-20HS	COND	Conductivity	10/3/2023 15:01	567.95	uS/cm
MR-AP-MW-20HS	DO	DO	10/3/2023 15:01	0.08	mg/L
MR-AP-MW-20HS	DTW	Depth to Water Detail	10/3/2023 15:01	60.15	ft
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	10/3/2023 15:01	-33.62	mv
MR-AP-MW-20HS	PH	pH	10/3/2023 15:01	6.42	SU
MR-AP-MW-20HS	TEMP	Temperature	10/3/2023 15:01	17.96	C
MR-AP-MW-20HS	TURB	Turbidity	10/3/2023 15:01	1.42	NTU
MR-AP-MW-20HS	COND	Conductivity	10/3/2023 15:06	567.16	uS/cm
MR-AP-MW-20HS	DO	DO	10/3/2023 15:06	0.09	mg/L
MR-AP-MW-20HS	DTW	Depth to Water Detail	10/3/2023 15:06	60.22	ft
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	10/3/2023 15:06	-38.78	mv
MR-AP-MW-20HS	PH	pH	10/3/2023 15:06	6.46	SU
MR-AP-MW-20HS	TEMP	Temperature	10/3/2023 15:06	18.01	C
MR-AP-MW-20HS	TURB	Turbidity	10/3/2023 15:06	1.49	NTU
MR-AP-MW-20HS	COND	Conductivity	10/3/2023 15:11	569.12	uS/cm
MR-AP-MW-20HS	DO	DO	10/3/2023 15:11	0.08	mg/L
MR-AP-MW-20HS	DTW	Depth to Water Detail	10/3/2023 15:11	60.31	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-20HS	ORP	Oxidation Reduction Potention	10/3/2023 15:11	-43.4	mv
MR-AP-MW-20HS	PH	pH	10/3/2023 15:11	6.49	SU
MR-AP-MW-20HS	SULFIDE	Sulfide	10/3/2023 15:11	0	mg/L
MR-AP-MW-20HS	TEMP	Temperature	10/3/2023 15:11	17.93	C
MR-AP-MW-20HS	TURB	Turbidity	10/3/2023 15:11	1.4	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-32H	COND	Conductivity	10/4/2023 8:19	370.72	uS/cm
MR-AP-MW-32H	DO	DO	10/4/2023 8:19	1.3	mg/L
MR-AP-MW-32H	DTW	Depth to Water Detail	10/4/2023 8:19	62.8	ft
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	10/4/2023 8:19	-25.21	mv
MR-AP-MW-32H	PH	pH	10/4/2023 8:19	7.31	SU
MR-AP-MW-32H	TEMP	Temperature	10/4/2023 8:19	17.82	C
MR-AP-MW-32H	TURB	Turbidity	10/4/2023 8:19	8.22	NTU
MR-AP-MW-32H	COND	Conductivity	10/4/2023 8:24	365.76	uS/cm
MR-AP-MW-32H	DO	DO	10/4/2023 8:24	0.71	mg/L
MR-AP-MW-32H	DTW	Depth to Water Detail	10/4/2023 8:24	62.91	ft
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	10/4/2023 8:24	-36.21	mv
MR-AP-MW-32H	PH	pH	10/4/2023 8:24	7.28	SU
MR-AP-MW-32H	TEMP	Temperature	10/4/2023 8:24	17.75	C
MR-AP-MW-32H	TURB	Turbidity	10/4/2023 8:24	5.63	NTU
MR-AP-MW-32H	COND	Conductivity	10/4/2023 8:29	362.67	uS/cm
MR-AP-MW-32H	DO	DO	10/4/2023 8:29	0.58	mg/L
MR-AP-MW-32H	DTW	Depth to Water Detail	10/4/2023 8:29	63.02	ft
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	10/4/2023 8:29	-44.23	mv
MR-AP-MW-32H	PH	pH	10/4/2023 8:29	7.28	SU
MR-AP-MW-32H	TEMP	Temperature	10/4/2023 8:29	17.73	C
MR-AP-MW-32H	TURB	Turbidity	10/4/2023 8:29	4.46	NTU
MR-AP-MW-32H	COND	Conductivity	10/4/2023 8:34	360.39	uS/cm
MR-AP-MW-32H	DO	DO	10/4/2023 8:34	0.65	mg/L
MR-AP-MW-32H	DTW	Depth to Water Detail	10/4/2023 8:34	63.13	ft
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	10/4/2023 8:34	-47.55	mv
MR-AP-MW-32H	PH	pH	10/4/2023 8:34	7.26	SU
MR-AP-MW-32H	TEMP	Temperature	10/4/2023 8:34	17.77	C
MR-AP-MW-32H	TURB	Turbidity	10/4/2023 8:34	4.26	NTU
MR-AP-MW-32H	COND	Conductivity	10/4/2023 8:39	358.58	uS/cm
MR-AP-MW-32H	DO	DO	10/4/2023 8:39	1.08	mg/L
MR-AP-MW-32H	DTW	Depth to Water Detail	10/4/2023 8:39	63.25	ft
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	10/4/2023 8:39	-46.78	mv
MR-AP-MW-32H	PH	pH	10/4/2023 8:39	7.23	SU
MR-AP-MW-32H	TEMP	Temperature	10/4/2023 8:39	17.78	C
MR-AP-MW-32H	TURB	Turbidity	10/4/2023 8:39	4.1	NTU
MR-AP-MW-32H	COND	Conductivity	10/4/2023 8:44	357.92	uS/cm
MR-AP-MW-32H	DO	DO	10/4/2023 8:44	1.95	mg/L
MR-AP-MW-32H	DTW	Depth to Water Detail	10/4/2023 8:44	63.35	ft
MR-AP-MW-32H	ORP	Oxidation Reduction Potention	10/4/2023 8:44	-44.23	mv
MR-AP-MW-32H	PH	pH	10/4/2023 8:44	7.21	SU
MR-AP-MW-32H	TEMP	Temperature	10/4/2023 8:44	17.79	C
MR-AP-MW-32H	TURB	Turbidity	10/4/2023 8:44	4.02	NTU
MR-AP-MW-32H	COND	Conductivity	10/4/2023 8:49	359.58	uS/cm
MR-AP-MW-32H	DO	DO	10/4/2023 8:49	2.72	mg/L
MR-AP-MW-32H	DTW	Depth to Water Detail	10/4/2023 8:49	63.44	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-32H	ORP	Oxidation Reduction Potential	10/4/2023 8:49	-42.84	mv
MR-AP-MW-32H	PH	pH	10/4/2023 8:49	7.24	SU
MR-AP-MW-32H	TEMP	Temperature	10/4/2023 8:49	17.9	C
MR-AP-MW-32H	TURB	Turbidity	10/4/2023 8:49	4.22	NTU
MR-AP-MW-32H	COND	Conductivity	10/4/2023 8:54	360.94	uS/cm
MR-AP-MW-32H	DO	DO	10/4/2023 8:54	2.94	mg/L
MR-AP-MW-32H	DTW	Depth to Water Detail	10/4/2023 8:54	63.55	ft
MR-AP-MW-32H	ORP	Oxidation Reduction Potential	10/4/2023 8:54	-40.44	mv
MR-AP-MW-32H	PH	pH	10/4/2023 8:54	7.24	SU
MR-AP-MW-32H	TEMP	Temperature	10/4/2023 8:54	17.99	C
MR-AP-MW-32H	TURB	Turbidity	10/4/2023 8:54	4.04	NTU
MR-AP-MW-32H	COND	Conductivity	10/4/2023 8:59	362.81	uS/cm
MR-AP-MW-32H	DO	DO	10/4/2023 8:59	2.98	mg/L
MR-AP-MW-32H	DTW	Depth to Water Detail	10/4/2023 8:59	63.64	ft
MR-AP-MW-32H	ORP	Oxidation Reduction Potential	10/4/2023 8:59	-39.16	mv
MR-AP-MW-32H	PH	pH	10/4/2023 8:59	7.24	SU
MR-AP-MW-32H	SULFIDE	Sulfide	10/4/2023 8:59	0	mg/L
MR-AP-MW-32H	TEMP	Temperature	10/4/2023 8:59	18.1	C
MR-AP-MW-32H	TURB	Turbidity	10/4/2023 8:59	3.96	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-33H	COND	Conductivity	10/4/2023 14:34	1224.99	uS/cm
MR-AP-MW-33H	DO	DO	10/4/2023 14:34	0.42	mg/L
MR-AP-MW-33H	DTW	Depth to Water Detail	10/4/2023 14:34	26.44	ft
MR-AP-MW-33H	ORP	Oxidation Reduction Potention	10/4/2023 14:34	-160.61	mv
MR-AP-MW-33H	PH	pH	10/4/2023 14:34	6.79	SU
MR-AP-MW-33H	TEMP	Temperature	10/4/2023 14:34	21.72	C
MR-AP-MW-33H	TURB	Turbidity	10/4/2023 14:34	6.89	NTU
MR-AP-MW-33H	COND	Conductivity	10/4/2023 14:39	1186.96	uS/cm
MR-AP-MW-33H	DO	DO	10/4/2023 14:39	0.32	mg/L
MR-AP-MW-33H	DTW	Depth to Water Detail	10/4/2023 14:39	26.47	ft
MR-AP-MW-33H	ORP	Oxidation Reduction Potention	10/4/2023 14:39	-156.91	mv
MR-AP-MW-33H	PH	pH	10/4/2023 14:39	6.68	SU
MR-AP-MW-33H	TEMP	Temperature	10/4/2023 14:39	21.32	C
MR-AP-MW-33H	TURB	Turbidity	10/4/2023 14:39	6.51	NTU
MR-AP-MW-33H	COND	Conductivity	10/4/2023 14:44	1157.34	uS/cm
MR-AP-MW-33H	DO	DO	10/4/2023 14:44	0.31	mg/L
MR-AP-MW-33H	DTW	Depth to Water Detail	10/4/2023 14:44	26.5	ft
MR-AP-MW-33H	ORP	Oxidation Reduction Potention	10/4/2023 14:44	-152.42	mv
MR-AP-MW-33H	PH	pH	10/4/2023 14:44	6.62	SU
MR-AP-MW-33H	TEMP	Temperature	10/4/2023 14:44	21.23	C
MR-AP-MW-33H	TURB	Turbidity	10/4/2023 14:44	5.8	NTU
MR-AP-MW-33H	COND	Conductivity	10/4/2023 14:49	1132.78	uS/cm
MR-AP-MW-33H	DO	DO	10/4/2023 14:49	0.31	mg/L
MR-AP-MW-33H	DTW	Depth to Water Detail	10/4/2023 14:49	26.52	ft
MR-AP-MW-33H	ORP	Oxidation Reduction Potention	10/4/2023 14:49	-146.97	mv
MR-AP-MW-33H	PH	pH	10/4/2023 14:49	6.59	SU
MR-AP-MW-33H	TEMP	Temperature	10/4/2023 14:49	21.29	C
MR-AP-MW-33H	TURB	Turbidity	10/4/2023 14:49	5.51	NTU
MR-AP-MW-33H	COND	Conductivity	10/4/2023 14:54	1112.18	uS/cm
MR-AP-MW-33H	DO	DO	10/4/2023 14:54	0.41	mg/L
MR-AP-MW-33H	DTW	Depth to Water Detail	10/4/2023 14:54	26.52	ft
MR-AP-MW-33H	ORP	Oxidation Reduction Potention	10/4/2023 14:54	-140.1	mv
MR-AP-MW-33H	PH	pH	10/4/2023 14:54	6.57	SU
MR-AP-MW-33H	SULFIDE	Sulfide	10/4/2023 14:54	0	mg/L
MR-AP-MW-33H	TEMP	Temperature	10/4/2023 14:54	21.33	C
MR-AP-MW-33H	TURB	Turbidity	10/4/2023 14:54	5.02	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-PZ-5	COND	Conductivity	10/4/2023 12:53	1133.6	uS/cm
MR-AP-PZ-5	DO	DO	10/4/2023 12:53	0.01	mg/L
MR-AP-PZ-5	DTW	Depth to Water Detail	10/4/2023 12:53	5.76	ft
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	10/4/2023 12:53	-252.35	mv
MR-AP-PZ-5	PH	pH	10/4/2023 12:53	8.2	SU
MR-AP-PZ-5	TEMP	Temperature	10/4/2023 12:53	20.64	C
MR-AP-PZ-5	TURB	Turbidity	10/4/2023 12:53	7.89	NTU
MR-AP-PZ-5	COND	Conductivity	10/4/2023 12:58	1149.86	uS/cm
MR-AP-PZ-5	DO	DO	10/4/2023 12:58	0	mg/L
MR-AP-PZ-5	DTW	Depth to Water Detail	10/4/2023 12:58	8.25	ft
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	10/4/2023 12:58	-275.19	mv
MR-AP-PZ-5	PH	pH	10/4/2023 12:58	8.27	SU
MR-AP-PZ-5	TEMP	Temperature	10/4/2023 12:58	20.46	C
MR-AP-PZ-5	TURB	Turbidity	10/4/2023 12:58	8.49	NTU
MR-AP-PZ-5	COND	Conductivity	10/4/2023 13:03	1163.94	uS/cm
MR-AP-PZ-5	DO	DO	10/4/2023 13:03	0.01	mg/L
MR-AP-PZ-5	DTW	Depth to Water Detail	10/4/2023 13:03	10.32	ft
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	10/4/2023 13:03	-291.36	mv
MR-AP-PZ-5	PH	pH	10/4/2023 13:03	8.3	SU
MR-AP-PZ-5	TEMP	Temperature	10/4/2023 13:03	20.47	C
MR-AP-PZ-5	TURB	Turbidity	10/4/2023 13:03	6.2	NTU
MR-AP-PZ-5	COND	Conductivity	10/4/2023 13:08	1195.41	uS/cm
MR-AP-PZ-5	DO	DO	10/4/2023 13:08	0.02	mg/L
MR-AP-PZ-5	DTW	Depth to Water Detail	10/4/2023 13:08	10.38	ft
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	10/4/2023 13:08	-303.44	mv
MR-AP-PZ-5	PH	pH	10/4/2023 13:08	8.3	SU
MR-AP-PZ-5	TEMP	Temperature	10/4/2023 13:08	23.46	C
MR-AP-PZ-5	TURB	Turbidity	10/4/2023 13:08	4.68	NTU
MR-AP-PZ-5	COND	Conductivity	10/4/2023 13:13	1204.22	uS/cm
MR-AP-PZ-5	DO	DO	10/4/2023 13:13	0.05	mg/L
MR-AP-PZ-5	DTW	Depth to Water Detail	10/4/2023 13:13	10.3	ft
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	10/4/2023 13:13	-310.51	mv
MR-AP-PZ-5	PH	pH	10/4/2023 13:13	8.35	SU
MR-AP-PZ-5	TEMP	Temperature	10/4/2023 13:13	23.64	C
MR-AP-PZ-5	TURB	Turbidity	10/4/2023 13:13	4.2	NTU
MR-AP-PZ-5	COND	Conductivity	10/4/2023 13:18	1193.76	uS/cm
MR-AP-PZ-5	DO	DO	10/4/2023 13:18	0.05	mg/L
MR-AP-PZ-5	DTW	Depth to Water Detail	10/4/2023 13:18	10.28	ft
MR-AP-PZ-5	ORP	Oxidation Reduction Potention	10/4/2023 13:18	-313.4	mv
MR-AP-PZ-5	PH	pH	10/4/2023 13:18	8.35	SU
MR-AP-PZ-5	SULFIDE	Sulfide	10/4/2023 13:18	8	mg/L
MR-AP-PZ-5	TEMP	Temperature	10/4/2023 13:18	22.64	C
MR-AP-PZ-5	TURB	Turbidity	10/4/2023 13:18	4.11	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-12	COND	Conductivity	10/2/2023 13:19	1388.49	uS/cm
MR-AP-MW-12	DO	DO	10/2/2023 13:19	0.66	mg/L
MR-AP-MW-12	DTW	Depth to Water Detail	10/2/2023 13:19	113.29	ft
MR-AP-MW-12	ORP	Oxidation Reduction Potention	10/2/2023 13:19	75.88	mv
MR-AP-MW-12	PH	pH	10/2/2023 13:19	6.53	SU
MR-AP-MW-12	TEMP	Temperature	10/2/2023 13:19	22.43	C
MR-AP-MW-12	TURB	Turbidity	10/2/2023 13:19	4.82	NTU
MR-AP-MW-12	COND	Conductivity	10/2/2023 13:24	1365.66	uS/cm
MR-AP-MW-12	DO	DO	10/2/2023 13:24	0.54	mg/L
MR-AP-MW-12	DTW	Depth to Water Detail	10/2/2023 13:24	113.38	ft
MR-AP-MW-12	ORP	Oxidation Reduction Potention	10/2/2023 13:24	64.07	mv
MR-AP-MW-12	PH	pH	10/2/2023 13:24	6.52	SU
MR-AP-MW-12	TEMP	Temperature	10/2/2023 13:24	22.37	C
MR-AP-MW-12	TURB	Turbidity	10/2/2023 13:24	4.71	NTU
MR-AP-MW-12	COND	Conductivity	10/2/2023 13:29	1368.23	uS/cm
MR-AP-MW-12	DO	DO	10/2/2023 13:29	0.44	mg/L
MR-AP-MW-12	DTW	Depth to Water Detail	10/2/2023 13:29	113.5	ft
MR-AP-MW-12	ORP	Oxidation Reduction Potention	10/2/2023 13:29	42.7	mv
MR-AP-MW-12	PH	pH	10/2/2023 13:29	6.52	SU
MR-AP-MW-12	TEMP	Temperature	10/2/2023 13:29	22.29	C
MR-AP-MW-12	TURB	Turbidity	10/2/2023 13:29	2.75	NTU
MR-AP-MW-12	COND	Conductivity	10/2/2023 13:34	1371.84	uS/cm
MR-AP-MW-12	DO	DO	10/2/2023 13:34	0.37	mg/L
MR-AP-MW-12	DTW	Depth to Water Detail	10/2/2023 13:34	113.63	ft
MR-AP-MW-12	ORP	Oxidation Reduction Potention	10/2/2023 13:34	25.13	mv
MR-AP-MW-12	PH	pH	10/2/2023 13:34	6.53	SU
MR-AP-MW-12	SULFIDE	Sulfide	10/2/2023 13:34	0	mg/L
MR-AP-MW-12	TEMP	Temperature	10/2/2023 13:34	21.89	C
MR-AP-MW-12	TURB	Turbidity	10/2/2023 13:34	2.47	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-13DR	COND	Conductivity	9/26/2023 10:50	1040.69	uS/cm
MR-AP-MW-13DR	DO	DO	9/26/2023 10:50	2.7	mg/L
MR-AP-MW-13DR	DTW	Depth to Water Detail	9/26/2023 10:50	111.1	ft
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	9/26/2023 10:50	28.21	mv
MR-AP-MW-13DR	PH	pH	9/26/2023 10:50	6.93	SU
MR-AP-MW-13DR	TEMP	Temperature	9/26/2023 10:50	20.72	C
MR-AP-MW-13DR	TURB	Turbidity	9/26/2023 10:50	0.72	NTU
MR-AP-MW-13DR	COND	Conductivity	9/26/2023 10:55	1094.79	uS/cm
MR-AP-MW-13DR	DO	DO	9/26/2023 10:55	2.46	mg/L
MR-AP-MW-13DR	DTW	Depth to Water Detail	9/26/2023 10:55	111.3	ft
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	9/26/2023 10:55	-22.01	mv
MR-AP-MW-13DR	PH	pH	9/26/2023 10:55	6.98	SU
MR-AP-MW-13DR	TEMP	Temperature	9/26/2023 10:55	20.76	C
MR-AP-MW-13DR	TURB	Turbidity	9/26/2023 10:55	0.47	NTU
MR-AP-MW-13DR	COND	Conductivity	9/26/2023 11:00	1127.79	uS/cm
MR-AP-MW-13DR	DO	DO	9/26/2023 11:00	2.25	mg/L
MR-AP-MW-13DR	DTW	Depth to Water Detail	9/26/2023 11:00	111.71	ft
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	9/26/2023 11:00	-44.51	mv
MR-AP-MW-13DR	PH	pH	9/26/2023 11:00	7.01	SU
MR-AP-MW-13DR	TEMP	Temperature	9/26/2023 11:00	20.83	C
MR-AP-MW-13DR	TURB	Turbidity	9/26/2023 11:00	0.64	NTU
MR-AP-MW-13DR	COND	Conductivity	9/26/2023 11:05	1140.22	uS/cm
MR-AP-MW-13DR	DO	DO	9/26/2023 11:05	2.06	mg/L
MR-AP-MW-13DR	DTW	Depth to Water Detail	9/26/2023 11:05	111.92	ft
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	9/26/2023 11:05	-54.77	mv
MR-AP-MW-13DR	PH	pH	9/26/2023 11:05	7.03	SU
MR-AP-MW-13DR	TEMP	Temperature	9/26/2023 11:05	21.16	C
MR-AP-MW-13DR	TURB	Turbidity	9/26/2023 11:05	0.42	NTU
MR-AP-MW-13DR	COND	Conductivity	9/26/2023 11:10	1137.74	uS/cm
MR-AP-MW-13DR	DO	DO	9/26/2023 11:10	1.96	mg/L
MR-AP-MW-13DR	DTW	Depth to Water Detail	9/26/2023 11:10	112.11	ft
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	9/26/2023 11:10	-61.87	mv
MR-AP-MW-13DR	PH	pH	9/26/2023 11:10	7.04	SU
MR-AP-MW-13DR	TEMP	Temperature	9/26/2023 11:10	21.38	C
MR-AP-MW-13DR	TURB	Turbidity	9/26/2023 11:10	0.48	NTU
MR-AP-MW-13DR	COND	Conductivity	9/26/2023 11:15	1125.64	uS/cm
MR-AP-MW-13DR	DO	DO	9/26/2023 11:15	1.93	mg/L
MR-AP-MW-13DR	DTW	Depth to Water Detail	9/26/2023 11:15	112.14	ft
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	9/26/2023 11:15	-65.76	mv
MR-AP-MW-13DR	PH	pH	9/26/2023 11:15	7.05	SU
MR-AP-MW-13DR	TEMP	Temperature	9/26/2023 11:15	21.5	C
MR-AP-MW-13DR	TURB	Turbidity	9/26/2023 11:15	0.8	NTU
MR-AP-MW-13DR	COND	Conductivity	9/26/2023 11:20	1110.02	uS/cm
MR-AP-MW-13DR	DO	DO	9/26/2023 11:20	1.95	mg/L
MR-AP-MW-13DR	DTW	Depth to Water Detail	9/26/2023 11:20	112.16	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-13DR	ORP	Oxidation Reduction Potention	9/26/2023 11:20	-69.53	mv
MR-AP-MW-13DR	PH	pH	9/26/2023 11:20	7.08	SU
MR-AP-MW-13DR	SULFIDE	Sulfide	9/26/2023 11:20	0	mg/L
MR-AP-MW-13DR	TEMP	Temperature	9/26/2023 11:20	21.49	C
MR-AP-MW-13DR	TURB	Turbidity	9/26/2023 11:20	0.49	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-13SR	COND	Conductivity	9/26/2023 13:46	1265.08	uS/cm
MR-AP-MW-13SR	DO	DO	9/26/2023 13:46	7.68	mg/L
MR-AP-MW-13SR	DTW	Depth to Water Detail	9/26/2023 13:46	46.65	ft
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	9/26/2023 13:46	127.51	mv
MR-AP-MW-13SR	PH	pH	9/26/2023 13:46	5.19	SU
MR-AP-MW-13SR	TEMP	Temperature	9/26/2023 13:46	20.57	C
MR-AP-MW-13SR	TURB	Turbidity	9/26/2023 13:46	2.76	NTU
MR-AP-MW-13SR	COND	Conductivity	9/26/2023 13:51	1259.76	uS/cm
MR-AP-MW-13SR	DO	DO	9/26/2023 13:51	7.91	mg/L
MR-AP-MW-13SR	DTW	Depth to Water Detail	9/26/2023 13:51	46.65	ft
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	9/26/2023 13:51	142.63	mv
MR-AP-MW-13SR	PH	pH	9/26/2023 13:51	5.1	SU
MR-AP-MW-13SR	TEMP	Temperature	9/26/2023 13:51	20.51	C
MR-AP-MW-13SR	TURB	Turbidity	9/26/2023 13:51	2.49	NTU
MR-AP-MW-13SR	COND	Conductivity	9/26/2023 13:56	1251.64	uS/cm
MR-AP-MW-13SR	DO	DO	9/26/2023 13:56	7.87	mg/L
MR-AP-MW-13SR	DTW	Depth to Water Detail	9/26/2023 13:56	46.65	ft
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	9/26/2023 13:56	147.36	mv
MR-AP-MW-13SR	PH	pH	9/26/2023 13:56	5.07	SU
MR-AP-MW-13SR	TEMP	Temperature	9/26/2023 13:56	20.7	C
MR-AP-MW-13SR	TURB	Turbidity	9/26/2023 13:56	1.45	NTU
MR-AP-MW-13SR	COND	Conductivity	9/26/2023 14:01	1245.36	uS/cm
MR-AP-MW-13SR	DO	DO	9/26/2023 14:01	7.81	mg/L
MR-AP-MW-13SR	DTW	Depth to Water Detail	9/26/2023 14:01	46.65	ft
MR-AP-MW-13SR	ORP	Oxidation Reduction Potention	9/26/2023 14:01	150.5	mv
MR-AP-MW-13SR	PH	pH	9/26/2023 14:01	5.05	SU
MR-AP-MW-13SR	SULFIDE	Sulfide	9/26/2023 14:01	0	mg/L
MR-AP-MW-13SR	TEMP	Temperature	9/26/2023 14:01	20.5	C
MR-AP-MW-13SR	TURB	Turbidity	9/26/2023 14:01	1	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-14R	COND	Conductivity	10/11/2023 11:00	349.39	uS/cm
MR-AP-MW-14R	DO	DO	10/11/2023 11:00	0.06	mg/L
MR-AP-MW-14R	DTW	Depth to Water Detail	10/11/2023 11:00	20.68	ft
MR-AP-MW-14R	ORP	Oxidation Reduction Potention	10/11/2023 11:00	-49.88	mv
MR-AP-MW-14R	PH	pH	10/11/2023 11:00	6.45	SU
MR-AP-MW-14R	TEMP	Temperature	10/11/2023 11:00	17.73	C
MR-AP-MW-14R	TURB	Turbidity	10/11/2023 11:00	6.65	NTU
MR-AP-MW-14R	COND	Conductivity	10/11/2023 11:05	348.14	uS/cm
MR-AP-MW-14R	DO	DO	10/11/2023 11:05	0.05	mg/L
MR-AP-MW-14R	DTW	Depth to Water Detail	10/11/2023 11:05	20.68	ft
MR-AP-MW-14R	ORP	Oxidation Reduction Potention	10/11/2023 11:05	-39.63	mv
MR-AP-MW-14R	PH	pH	10/11/2023 11:05	6.37	SU
MR-AP-MW-14R	TEMP	Temperature	10/11/2023 11:05	17.72	C
MR-AP-MW-14R	TURB	Turbidity	10/11/2023 11:05	3.12	NTU
MR-AP-MW-14R	COND	Conductivity	10/11/2023 11:10	347.29	uS/cm
MR-AP-MW-14R	DO	DO	10/11/2023 11:10	0.05	mg/L
MR-AP-MW-14R	DTW	Depth to Water Detail	10/11/2023 11:10	20.68	ft
MR-AP-MW-14R	ORP	Oxidation Reduction Potention	10/11/2023 11:10	-33.14	mv
MR-AP-MW-14R	PH	pH	10/11/2023 11:10	6.32	SU
MR-AP-MW-14R	TEMP	Temperature	10/11/2023 11:10	17.71	C
MR-AP-MW-14R	TURB	Turbidity	10/11/2023 11:10	2.83	NTU
MR-AP-MW-14R	COND	Conductivity	10/11/2023 11:15	347.08	uS/cm
MR-AP-MW-14R	DO	DO	10/11/2023 11:15	0.06	mg/L
MR-AP-MW-14R	DTW	Depth to Water Detail	10/11/2023 11:15	20.68	ft
MR-AP-MW-14R	ORP	Oxidation Reduction Potention	10/11/2023 11:15	-28.81	mv
MR-AP-MW-14R	PH	pH	10/11/2023 11:15	6.3	SU
MR-AP-MW-14R	SULFIDE	Sulfide	10/11/2023 11:15	0	mg/L
MR-AP-MW-14R	TEMP	Temperature	10/11/2023 11:15	17.7	C
MR-AP-MW-14R	TURB	Turbidity	10/11/2023 11:15	2.74	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-15	COND	Conductivity	9/26/2023 15:03	1034.12	uS/cm
MR-AP-MW-15	DO	DO	9/26/2023 15:03	0.09	mg/L
MR-AP-MW-15	DTW	Depth to Water Detail	9/26/2023 15:03	19.81	ft
MR-AP-MW-15	ORP	Oxidation Reduction Potention	9/26/2023 15:03	-26.47	mv
MR-AP-MW-15	PH	pH	9/26/2023 15:03	5.89	SU
MR-AP-MW-15	TEMP	Temperature	9/26/2023 15:03	20.17	C
MR-AP-MW-15	TURB	Turbidity	9/26/2023 15:03	3.21	NTU
MR-AP-MW-15	COND	Conductivity	9/26/2023 15:08	975.77	uS/cm
MR-AP-MW-15	DO	DO	9/26/2023 15:08	0.1	mg/L
MR-AP-MW-15	DTW	Depth to Water Detail	9/26/2023 15:08	19.91	ft
MR-AP-MW-15	ORP	Oxidation Reduction Potention	9/26/2023 15:08	-29.28	mv
MR-AP-MW-15	PH	pH	9/26/2023 15:08	5.9	SU
MR-AP-MW-15	TEMP	Temperature	9/26/2023 15:08	20.15	C
MR-AP-MW-15	TURB	Turbidity	9/26/2023 15:08	3.33	NTU
MR-AP-MW-15	COND	Conductivity	9/26/2023 15:13	952.85	uS/cm
MR-AP-MW-15	DO	DO	9/26/2023 15:13	0.33	mg/L
MR-AP-MW-15	DTW	Depth to Water Detail	9/26/2023 15:13	20.01	ft
MR-AP-MW-15	ORP	Oxidation Reduction Potention	9/26/2023 15:13	-19.83	mv
MR-AP-MW-15	PH	pH	9/26/2023 15:13	5.91	SU
MR-AP-MW-15	TEMP	Temperature	9/26/2023 15:13	20.06	C
MR-AP-MW-15	TURB	Turbidity	9/26/2023 15:13	3.16	NTU
MR-AP-MW-15	COND	Conductivity	9/26/2023 15:18	950.93	uS/cm
MR-AP-MW-15	DO	DO	9/26/2023 15:18	0.34	mg/L
MR-AP-MW-15	DTW	Depth to Water Detail	9/26/2023 15:18	20.08	ft
MR-AP-MW-15	ORP	Oxidation Reduction Potention	9/26/2023 15:18	-16.12	mv
MR-AP-MW-15	PH	pH	9/26/2023 15:18	5.9	SU
MR-AP-MW-15	TEMP	Temperature	9/26/2023 15:18	20.04	C
MR-AP-MW-15	TURB	Turbidity	9/26/2023 15:18	3.23	NTU
MR-AP-MW-15	COND	Conductivity	9/26/2023 15:23	948.9	uS/cm
MR-AP-MW-15	DO	DO	9/26/2023 15:23	0.28	mg/L
MR-AP-MW-15	DTW	Depth to Water Detail	9/26/2023 15:23	20.13	ft
MR-AP-MW-15	ORP	Oxidation Reduction Potention	9/26/2023 15:23	-15.78	mv
MR-AP-MW-15	PH	pH	9/26/2023 15:23	5.89	SU
MR-AP-MW-15	SULFIDE	Sulfide	9/26/2023 15:23	0	mg/L
MR-AP-MW-15	TEMP	Temperature	9/26/2023 15:23	20.18	C
MR-AP-MW-15	TURB	Turbidity	9/26/2023 15:23	1.08	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-16	COND	Conductivity	10/11/2023 13:55	1034.35	uS/cm
MR-AP-MW-16	DO	DO	10/11/2023 13:55	0.32	mg/L
MR-AP-MW-16	DTW	Depth to Water Detail	10/11/2023 13:55	37.64	ft
MR-AP-MW-16	ORP	Oxidation Reduction Potention	10/11/2023 13:55	14.67	mv
MR-AP-MW-16	PH	pH	10/11/2023 13:55	6.62	SU
MR-AP-MW-16	TEMP	Temperature	10/11/2023 13:55	19.34	C
MR-AP-MW-16	TURB	Turbidity	10/11/2023 13:55	1.18	NTU
MR-AP-MW-16	COND	Conductivity	10/11/2023 14:00	1032.68	uS/cm
MR-AP-MW-16	DO	DO	10/11/2023 14:00	0.28	mg/L
MR-AP-MW-16	DTW	Depth to Water Detail	10/11/2023 14:00	37.64	ft
MR-AP-MW-16	ORP	Oxidation Reduction Potention	10/11/2023 14:00	14.07	mv
MR-AP-MW-16	PH	pH	10/11/2023 14:00	6.63	SU
MR-AP-MW-16	TEMP	Temperature	10/11/2023 14:00	19.32	C
MR-AP-MW-16	TURB	Turbidity	10/11/2023 14:00	1.05	NTU
MR-AP-MW-16	COND	Conductivity	10/11/2023 14:05	1037.56	uS/cm
MR-AP-MW-16	DO	DO	10/11/2023 14:05	0.24	mg/L
MR-AP-MW-16	DTW	Depth to Water Detail	10/11/2023 14:05	37.64	ft
MR-AP-MW-16	ORP	Oxidation Reduction Potention	10/11/2023 14:05	13.63	mv
MR-AP-MW-16	PH	pH	10/11/2023 14:05	6.63	SU
MR-AP-MW-16	TEMP	Temperature	10/11/2023 14:05	19.31	C
MR-AP-MW-16	TURB	Turbidity	10/11/2023 14:05	0.98	NTU
MR-AP-MW-16	COND	Conductivity	10/11/2023 14:10	1038.58	uS/cm
MR-AP-MW-16	DO	DO	10/11/2023 14:10	0.22	mg/L
MR-AP-MW-16	DTW	Depth to Water Detail	10/11/2023 14:10	37.64	ft
MR-AP-MW-16	ORP	Oxidation Reduction Potention	10/11/2023 14:10	13.74	mv
MR-AP-MW-16	PH	pH	10/11/2023 14:10	6.63	SU
MR-AP-MW-16	SULFIDE	Sulfide	10/11/2023 14:10	0	mg/L
MR-AP-MW-16	TEMP	Temperature	10/11/2023 14:10	19.29	C
MR-AP-MW-16	TURB	Turbidity	10/11/2023 14:10	0.92	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-17H	COND	Conductivity	10/10/2023 11:32	833.33	uS/cm
MR-AP-MW-17H	DO	DO	10/10/2023 11:32	0.12	mg/L
MR-AP-MW-17H	DTW	Depth to Water Detail	10/10/2023 11:32	22.72	ft
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	10/10/2023 11:32	-27.02	mv
MR-AP-MW-17H	PH	pH	10/10/2023 11:32	6.74	SU
MR-AP-MW-17H	TEMP	Temperature	10/10/2023 11:32	17.48	C
MR-AP-MW-17H	TURB	Turbidity	10/10/2023 11:32	14.1	NTU
MR-AP-MW-17H	COND	Conductivity	10/10/2023 11:37	828.22	uS/cm
MR-AP-MW-17H	DO	DO	10/10/2023 11:37	0.08	mg/L
MR-AP-MW-17H	DTW	Depth to Water Detail	10/10/2023 11:37	22.72	ft
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	10/10/2023 11:37	-21.37	mv
MR-AP-MW-17H	PH	pH	10/10/2023 11:37	6.55	SU
MR-AP-MW-17H	TEMP	Temperature	10/10/2023 11:37	17.4	C
MR-AP-MW-17H	TURB	Turbidity	10/10/2023 11:37	9.54	NTU
MR-AP-MW-17H	COND	Conductivity	10/10/2023 11:42	822.73	uS/cm
MR-AP-MW-17H	DO	DO	10/10/2023 11:42	0.09	mg/L
MR-AP-MW-17H	DTW	Depth to Water Detail	10/10/2023 11:42	22.72	ft
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	10/10/2023 11:42	-20.83	mv
MR-AP-MW-17H	PH	pH	10/10/2023 11:42	6.51	SU
MR-AP-MW-17H	TEMP	Temperature	10/10/2023 11:42	17.43	C
MR-AP-MW-17H	TURB	Turbidity	10/10/2023 11:42	5.55	NTU
MR-AP-MW-17H	COND	Conductivity	10/10/2023 11:47	815.7	uS/cm
MR-AP-MW-17H	DO	DO	10/10/2023 11:47	0.08	mg/L
MR-AP-MW-17H	DTW	Depth to Water Detail	10/10/2023 11:47	22.72	ft
MR-AP-MW-17H	ORP	Oxidation Reduction Potention	10/10/2023 11:47	-21.48	mv
MR-AP-MW-17H	PH	pH	10/10/2023 11:47	6.5	SU
MR-AP-MW-17H	SULFIDE	Sulfide	10/10/2023 11:47	0	mg/L
MR-AP-MW-17H	TEMP	Temperature	10/10/2023 11:47	17.43	C
MR-AP-MW-17H	TURB	Turbidity	10/10/2023 11:47	3.33	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-18H	COND	Conductivity	10/3/2023 13:28	888.42	uS/cm
MR-AP-MW-18H	DO	DO	10/3/2023 13:28	1.46	mg/L
MR-AP-MW-18H	DTW	Depth to Water Detail	10/3/2023 13:28	170.46	ft
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	10/3/2023 13:28	-46.5	mv
MR-AP-MW-18H	PH	pH	10/3/2023 13:28	6.6	SU
MR-AP-MW-18H	TEMP	Temperature	10/3/2023 13:28	22.69	C
MR-AP-MW-18H	TURB	Turbidity	10/3/2023 13:28	1.67	NTU
MR-AP-MW-18H	COND	Conductivity	10/3/2023 13:33	926.6	uS/cm
MR-AP-MW-18H	DO	DO	10/3/2023 13:33	1.08	mg/L
MR-AP-MW-18H	DTW	Depth to Water Detail	10/3/2023 13:33	170.51	ft
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	10/3/2023 13:33	-32.97	mv
MR-AP-MW-18H	PH	pH	10/3/2023 13:33	6.65	SU
MR-AP-MW-18H	TEMP	Temperature	10/3/2023 13:33	22.84	C
MR-AP-MW-18H	TURB	Turbidity	10/3/2023 13:33	1.33	NTU
MR-AP-MW-18H	COND	Conductivity	10/3/2023 13:38	934.4	uS/cm
MR-AP-MW-18H	DO	DO	10/3/2023 13:38	0.95	mg/L
MR-AP-MW-18H	DTW	Depth to Water Detail	10/3/2023 13:38	170.69	ft
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	10/3/2023 13:38	-32.69	mv
MR-AP-MW-18H	PH	pH	10/3/2023 13:38	6.69	SU
MR-AP-MW-18H	TEMP	Temperature	10/3/2023 13:38	22.63	C
MR-AP-MW-18H	TURB	Turbidity	10/3/2023 13:38	1.09	NTU
MR-AP-MW-18H	COND	Conductivity	10/3/2023 13:43	936.07	uS/cm
MR-AP-MW-18H	DO	DO	10/3/2023 13:43	0.92	mg/L
MR-AP-MW-18H	DTW	Depth to Water Detail	10/3/2023 13:43	170.77	ft
MR-AP-MW-18H	ORP	Oxidation Reduction Potention	10/3/2023 13:43	-34.52	mv
MR-AP-MW-18H	PH	pH	10/3/2023 13:43	6.72	SU
MR-AP-MW-18H	SULFIDE	Sulfide	10/3/2023 13:43	0	mg/L
MR-AP-MW-18H	TEMP	Temperature	10/3/2023 13:43	22.3	C
MR-AP-MW-18H	TURB	Turbidity	10/3/2023 13:43	0.92	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-27HR	COND	Conductivity	9/27/2023 10:46	629.57	uS/cm
MR-AP-MW-27HR	DO	DO	9/27/2023 10:46	0.23	mg/L
MR-AP-MW-27HR	DTW	Depth to Water Detail	9/27/2023 10:46	109.31	ft
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	9/27/2023 10:46	34.56	mv
MR-AP-MW-27HR	PH	pH	9/27/2023 10:46	5.47	SU
MR-AP-MW-27HR	TEMP	Temperature	9/27/2023 10:46	18.87	C
MR-AP-MW-27HR	TURB	Turbidity	9/27/2023 10:46	1.95	NTU
MR-AP-MW-27HR	COND	Conductivity	9/27/2023 10:51	616.62	uS/cm
MR-AP-MW-27HR	DO	DO	9/27/2023 10:51	0.16	mg/L
MR-AP-MW-27HR	DTW	Depth to Water Detail	9/27/2023 10:51	110.42	ft
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	9/27/2023 10:51	126.34	mv
MR-AP-MW-27HR	PH	pH	9/27/2023 10:51	5.45	SU
MR-AP-MW-27HR	TEMP	Temperature	9/27/2023 10:51	18.76	C
MR-AP-MW-27HR	TURB	Turbidity	9/27/2023 10:51	1	NTU
MR-AP-MW-27HR	COND	Conductivity	9/27/2023 10:56	606.22	uS/cm
MR-AP-MW-27HR	DO	DO	9/27/2023 10:56	0.17	mg/L
MR-AP-MW-27HR	DTW	Depth to Water Detail	9/27/2023 10:56	110.96	ft
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	9/27/2023 10:56	171.18	mv
MR-AP-MW-27HR	PH	pH	9/27/2023 10:56	5.48	SU
MR-AP-MW-27HR	TEMP	Temperature	9/27/2023 10:56	19.05	C
MR-AP-MW-27HR	TURB	Turbidity	9/27/2023 10:56	0.69	NTU
MR-AP-MW-27HR	COND	Conductivity	9/27/2023 11:01	598.57	uS/cm
MR-AP-MW-27HR	DO	DO	9/27/2023 11:01	0.19	mg/L
MR-AP-MW-27HR	DTW	Depth to Water Detail	9/27/2023 11:01	111.21	ft
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	9/27/2023 11:01	180.07	mv
MR-AP-MW-27HR	PH	pH	9/27/2023 11:01	5.52	SU
MR-AP-MW-27HR	TEMP	Temperature	9/27/2023 11:01	19.2	C
MR-AP-MW-27HR	TURB	Turbidity	9/27/2023 11:01	0.58	NTU
MR-AP-MW-27HR	COND	Conductivity	9/27/2023 11:06	587.04	uS/cm
MR-AP-MW-27HR	DO	DO	9/27/2023 11:06	0.2	mg/L
MR-AP-MW-27HR	DTW	Depth to Water Detail	9/27/2023 11:06	111.37	ft
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	9/27/2023 11:06	173.97	mv
MR-AP-MW-27HR	PH	pH	9/27/2023 11:06	5.57	SU
MR-AP-MW-27HR	TEMP	Temperature	9/27/2023 11:06	19.2	C
MR-AP-MW-27HR	TURB	Turbidity	9/27/2023 11:06	0.64	NTU
MR-AP-MW-27HR	COND	Conductivity	9/27/2023 11:11	580.69	uS/cm
MR-AP-MW-27HR	DO	DO	9/27/2023 11:11	0.21	mg/L
MR-AP-MW-27HR	DTW	Depth to Water Detail	9/27/2023 11:11	111.49	ft
MR-AP-MW-27HR	ORP	Oxidation Reduction Potention	9/27/2023 11:11	165.72	mv
MR-AP-MW-27HR	PH	pH	9/27/2023 11:11	5.62	SU
MR-AP-MW-27HR	SULFIDE	Sulfide	9/27/2023 11:11	0	mg/L
MR-AP-MW-27HR	TEMP	Temperature	9/27/2023 11:11	19.21	C
MR-AP-MW-27HR	TURB	Turbidity	9/27/2023 11:11	0.66	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-28H	COND	Conductivity	9/27/2023 12:08	487.86	uS/cm
MR-AP-MW-28H	DO	DO	9/27/2023 12:08	0.67	mg/L
MR-AP-MW-28H	DTW	Depth to Water Detail	9/27/2023 12:08	92.49	ft
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	9/27/2023 12:08	8.77	mv
MR-AP-MW-28H	PH	pH	9/27/2023 12:08	6.24	SU
MR-AP-MW-28H	TEMP	Temperature	9/27/2023 12:08	21.78	C
MR-AP-MW-28H	TURB	Turbidity	9/27/2023 12:08	17	NTU
MR-AP-MW-28H	COND	Conductivity	9/27/2023 12:13	488.17	uS/cm
MR-AP-MW-28H	DO	DO	9/27/2023 12:13	0.5	mg/L
MR-AP-MW-28H	DTW	Depth to Water Detail	9/27/2023 12:13	93.91	ft
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	9/27/2023 12:13	7.87	mv
MR-AP-MW-28H	PH	pH	9/27/2023 12:13	6.19	SU
MR-AP-MW-28H	TEMP	Temperature	9/27/2023 12:13	21.88	C
MR-AP-MW-28H	TURB	Turbidity	9/27/2023 12:13	7.66	NTU
MR-AP-MW-28H	COND	Conductivity	9/27/2023 12:18	488.19	uS/cm
MR-AP-MW-28H	DO	DO	9/27/2023 12:18	0.51	mg/L
MR-AP-MW-28H	DTW	Depth to Water Detail	9/27/2023 12:18	94.41	ft
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	9/27/2023 12:18	7.58	mv
MR-AP-MW-28H	PH	pH	9/27/2023 12:18	6.19	SU
MR-AP-MW-28H	TEMP	Temperature	9/27/2023 12:18	22.05	C
MR-AP-MW-28H	TURB	Turbidity	9/27/2023 12:18	5.06	NTU
MR-AP-MW-28H	COND	Conductivity	9/27/2023 12:23	488.12	uS/cm
MR-AP-MW-28H	DO	DO	9/27/2023 12:23	0.52	mg/L
MR-AP-MW-28H	DTW	Depth to Water Detail	9/27/2023 12:23	94.43	ft
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	9/27/2023 12:23	7.09	mv
MR-AP-MW-28H	PH	pH	9/27/2023 12:23	6.2	SU
MR-AP-MW-28H	TEMP	Temperature	9/27/2023 12:23	22.08	C
MR-AP-MW-28H	TURB	Turbidity	9/27/2023 12:23	4.74	NTU
MR-AP-MW-28H	COND	Conductivity	9/27/2023 12:28	487.45	uS/cm
MR-AP-MW-28H	DO	DO	9/27/2023 12:28	0.57	mg/L
MR-AP-MW-28H	DTW	Depth to Water Detail	9/27/2023 12:28	94.45	ft
MR-AP-MW-28H	ORP	Oxidation Reduction Potention	9/27/2023 12:28	6.61	mv
MR-AP-MW-28H	PH	pH	9/27/2023 12:28	6.22	SU
MR-AP-MW-28H	SULFIDE	Sulfide	9/27/2023 12:28	0	mg/L
MR-AP-MW-28H	TEMP	Temperature	9/27/2023 12:28	22.05	C
MR-AP-MW-28H	TURB	Turbidity	9/27/2023 12:28	3.33	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-9DR	COND	Conductivity	9/27/2023 13:50	1332.71	uS/cm
MR-AP-MW-9DR	DO	DO	9/27/2023 13:50	0.43	mg/L
MR-AP-MW-9DR	DTW	Depth to Water Detail	9/27/2023 13:50	86.91	ft
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	9/27/2023 13:50	-54.77	mv
MR-AP-MW-9DR	PH	pH	9/27/2023 13:50	6.32	SU
MR-AP-MW-9DR	TEMP	Temperature	9/27/2023 13:50	18.09	C
MR-AP-MW-9DR	TURB	Turbidity	9/27/2023 13:50	1.55	NTU
MR-AP-MW-9DR	COND	Conductivity	9/27/2023 13:55	1352.21	uS/cm
MR-AP-MW-9DR	DO	DO	9/27/2023 13:55	0.22	mg/L
MR-AP-MW-9DR	DTW	Depth to Water Detail	9/27/2023 13:55	87.39	ft
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	9/27/2023 13:55	-58.3	mv
MR-AP-MW-9DR	PH	pH	9/27/2023 13:55	6.32	SU
MR-AP-MW-9DR	TEMP	Temperature	9/27/2023 13:55	17.8	C
MR-AP-MW-9DR	TURB	Turbidity	9/27/2023 13:55	0.96	NTU
MR-AP-MW-9DR	COND	Conductivity	9/27/2023 14:00	1364.06	uS/cm
MR-AP-MW-9DR	DO	DO	9/27/2023 14:00	0.18	mg/L
MR-AP-MW-9DR	DTW	Depth to Water Detail	9/27/2023 14:00	87.67	ft
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	9/27/2023 14:00	-60.97	mv
MR-AP-MW-9DR	PH	pH	9/27/2023 14:00	6.33	SU
MR-AP-MW-9DR	TEMP	Temperature	9/27/2023 14:00	17.77	C
MR-AP-MW-9DR	TURB	Turbidity	9/27/2023 14:00	0.82	NTU
MR-AP-MW-9DR	COND	Conductivity	9/27/2023 14:05	1371.96	uS/cm
MR-AP-MW-9DR	DO	DO	9/27/2023 14:05	0.15	mg/L
MR-AP-MW-9DR	DTW	Depth to Water Detail	9/27/2023 14:05	87.81	ft
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	9/27/2023 14:05	-62.36	mv
MR-AP-MW-9DR	PH	pH	9/27/2023 14:05	6.34	SU
MR-AP-MW-9DR	TEMP	Temperature	9/27/2023 14:05	17.67	C
MR-AP-MW-9DR	TURB	Turbidity	9/27/2023 14:05	0.63	NTU
MR-AP-MW-9DR	COND	Conductivity	9/27/2023 14:10	1377.07	uS/cm
MR-AP-MW-9DR	DO	DO	9/27/2023 14:10	0.14	mg/L
MR-AP-MW-9DR	DTW	Depth to Water Detail	9/27/2023 14:10	87.94	ft
MR-AP-MW-9DR	ORP	Oxidation Reduction Potention	9/27/2023 14:10	-63.29	mv
MR-AP-MW-9DR	PH	pH	9/27/2023 14:10	6.35	SU
MR-AP-MW-9DR	SULFIDE	Sulfide	9/27/2023 14:10	0	mg/L
MR-AP-MW-9DR	TEMP	Temperature	9/27/2023 14:10	17.61	C
MR-AP-MW-9DR	TURB	Turbidity	9/27/2023 14:10	0.53	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-9SR	COND	Conductivity	9/27/2023 14:48	1015.87	uS/cm
MR-AP-MW-9SR	DO	DO	9/27/2023 14:48	0.5	mg/L
MR-AP-MW-9SR	DTW	Depth to Water Detail	9/27/2023 14:48	83.71	ft
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	9/27/2023 14:48	18.31	mv
MR-AP-MW-9SR	PH	pH	9/27/2023 14:48	6.23	SU
MR-AP-MW-9SR	TEMP	Temperature	9/27/2023 14:48	18.05	C
MR-AP-MW-9SR	TURB	Turbidity	9/27/2023 14:48	8.1	NTU
MR-AP-MW-9SR	COND	Conductivity	9/27/2023 14:53	1012.05	uS/cm
MR-AP-MW-9SR	DO	DO	9/27/2023 14:53	0.36	mg/L
MR-AP-MW-9SR	DTW	Depth to Water Detail	9/27/2023 14:53	84.09	ft
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	9/27/2023 14:53	16.87	mv
MR-AP-MW-9SR	PH	pH	9/27/2023 14:53	6.22	SU
MR-AP-MW-9SR	TEMP	Temperature	9/27/2023 14:53	17.93	C
MR-AP-MW-9SR	TURB	Turbidity	9/27/2023 14:53	3.31	NTU
MR-AP-MW-9SR	COND	Conductivity	9/27/2023 14:58	1007.36	uS/cm
MR-AP-MW-9SR	DO	DO	9/27/2023 14:58	0.35	mg/L
MR-AP-MW-9SR	DTW	Depth to Water Detail	9/27/2023 14:58	84.3	ft
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	9/27/2023 14:58	13.68	mv
MR-AP-MW-9SR	PH	pH	9/27/2023 14:58	6.2	SU
MR-AP-MW-9SR	TEMP	Temperature	9/27/2023 14:58	17.95	C
MR-AP-MW-9SR	TURB	Turbidity	9/27/2023 14:58	3.76	NTU
MR-AP-MW-9SR	COND	Conductivity	9/27/2023 15:03	1001.85	uS/cm
MR-AP-MW-9SR	DO	DO	9/27/2023 15:03	0.32	mg/L
MR-AP-MW-9SR	DTW	Depth to Water Detail	9/27/2023 15:03	84.43	ft
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	9/27/2023 15:03	9.65	mv
MR-AP-MW-9SR	PH	pH	9/27/2023 15:03	6.19	SU
MR-AP-MW-9SR	TEMP	Temperature	9/27/2023 15:03	17.99	C
MR-AP-MW-9SR	TURB	Turbidity	9/27/2023 15:03	1.27	NTU
MR-AP-MW-9SR	COND	Conductivity	9/27/2023 15:08	996.97	uS/cm
MR-AP-MW-9SR	DO	DO	9/27/2023 15:08	0.46	mg/L
MR-AP-MW-9SR	DTW	Depth to Water Detail	9/27/2023 15:08	84.54	ft
MR-AP-MW-9SR	ORP	Oxidation Reduction Potention	9/27/2023 15:08	6.27	mv
MR-AP-MW-9SR	PH	pH	9/27/2023 15:08	6.19	SU
MR-AP-MW-9SR	SULFIDE	Sulfide	9/27/2023 15:08	0	mg/L
MR-AP-MW-9SR	TEMP	Temperature	9/27/2023 15:08	17.89	C
MR-AP-MW-9SR	TURB	Turbidity	9/27/2023 15:08	0.98	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-3D	COND	Conductivity	10/3/2023 11:37	892.47	uS/cm
MR-AP-MW-3D	DO	DO	10/3/2023 11:37	1.76	mg/L
MR-AP-MW-3D	DTW	Depth to Water Detail	10/3/2023 11:37	122.81	ft
MR-AP-MW-3D	ORP	Oxidation Reduction Potention	10/3/2023 11:37	-22.54	mv
MR-AP-MW-3D	PH	pH	10/3/2023 11:37	7.03	SU
MR-AP-MW-3D	TEMP	Temperature	10/3/2023 11:37	20.84	C
MR-AP-MW-3D	TURB	Turbidity	10/3/2023 11:37	5.49	NTU
MR-AP-MW-3D	COND	Conductivity	10/3/2023 11:42	940.59	uS/cm
MR-AP-MW-3D	DO	DO	10/3/2023 11:42	0.94	mg/L
MR-AP-MW-3D	DTW	Depth to Water Detail	10/3/2023 11:42	122.9	ft
MR-AP-MW-3D	ORP	Oxidation Reduction Potention	10/3/2023 11:42	-23.04	mv
MR-AP-MW-3D	PH	pH	10/3/2023 11:42	6.67	SU
MR-AP-MW-3D	TEMP	Temperature	10/3/2023 11:42	20.53	C
MR-AP-MW-3D	TURB	Turbidity	10/3/2023 11:42	3.24	NTU
MR-AP-MW-3D	COND	Conductivity	10/3/2023 11:47	939.69	uS/cm
MR-AP-MW-3D	DO	DO	10/3/2023 11:47	0.76	mg/L
MR-AP-MW-3D	DTW	Depth to Water Detail	10/3/2023 11:47	122.9	ft
MR-AP-MW-3D	ORP	Oxidation Reduction Potention	10/3/2023 11:47	-18.26	mv
MR-AP-MW-3D	PH	pH	10/3/2023 11:47	6.51	SU
MR-AP-MW-3D	TEMP	Temperature	10/3/2023 11:47	20.33	C
MR-AP-MW-3D	TURB	Turbidity	10/3/2023 11:47	2.18	NTU
MR-AP-MW-3D	COND	Conductivity	10/3/2023 11:52	937.87	uS/cm
MR-AP-MW-3D	DO	DO	10/3/2023 11:52	0.65	mg/L
MR-AP-MW-3D	DTW	Depth to Water Detail	10/3/2023 11:52	122.9	ft
MR-AP-MW-3D	ORP	Oxidation Reduction Potention	10/3/2023 11:52	-17.85	mv
MR-AP-MW-3D	PH	pH	10/3/2023 11:52	6.48	SU
MR-AP-MW-3D	TEMP	Temperature	10/3/2023 11:52	20.45	C
MR-AP-MW-3D	TURB	Turbidity	10/3/2023 11:52	1.76	NTU
MR-AP-MW-3D	COND	Conductivity	10/3/2023 11:57	935.13	uS/cm
MR-AP-MW-3D	DO	DO	10/3/2023 11:57	0.57	mg/L
MR-AP-MW-3D	DTW	Depth to Water Detail	10/3/2023 11:57	122.9	ft
MR-AP-MW-3D	ORP	Oxidation Reduction Potention	10/3/2023 11:57	-18.75	mv
MR-AP-MW-3D	PH	pH	10/3/2023 11:57	6.5	SU
MR-AP-MW-3D	SULFIDE	Sulfide	10/3/2023 11:57	0	mg/L
MR-AP-MW-3D	TEMP	Temperature	10/3/2023 11:57	20.18	C
MR-AP-MW-3D	TURB	Turbidity	10/3/2023 11:57	1.54	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-3S	COND	Conductivity	10/3/2023 10:24	969.74	uS/cm
MR-AP-MW-3S	DO	DO	10/3/2023 10:24	0.68	mg/L
MR-AP-MW-3S	DTW	Depth to Water Detail	10/3/2023 10:24	100.8	ft
MR-AP-MW-3S	ORP	Oxidation Reduction Potention	10/3/2023 10:24	-51.14	mv
MR-AP-MW-3S	PH	pH	10/3/2023 10:24	8.73	SU
MR-AP-MW-3S	TEMP	Temperature	10/3/2023 10:24	20.2	C
MR-AP-MW-3S	TURB	Turbidity	10/3/2023 10:24	4.77	NTU
MR-AP-MW-3S	COND	Conductivity	10/3/2023 10:29	960.7	uS/cm
MR-AP-MW-3S	DO	DO	10/3/2023 10:29	0.35	mg/L
MR-AP-MW-3S	DTW	Depth to Water Detail	10/3/2023 10:29	100.89	ft
MR-AP-MW-3S	ORP	Oxidation Reduction Potention	10/3/2023 10:29	-105.63	mv
MR-AP-MW-3S	PH	pH	10/3/2023 10:29	8.78	SU
MR-AP-MW-3S	TEMP	Temperature	10/3/2023 10:29	20.22	C
MR-AP-MW-3S	TURB	Turbidity	10/3/2023 10:29	4.81	NTU
MR-AP-MW-3S	COND	Conductivity	10/3/2023 10:34	959.34	uS/cm
MR-AP-MW-3S	DO	DO	10/3/2023 10:34	0.23	mg/L
MR-AP-MW-3S	DTW	Depth to Water Detail	10/3/2023 10:34	100.94	ft
MR-AP-MW-3S	ORP	Oxidation Reduction Potention	10/3/2023 10:34	-131.82	mv
MR-AP-MW-3S	PH	pH	10/3/2023 10:34	8.78	SU
MR-AP-MW-3S	TEMP	Temperature	10/3/2023 10:34	20.02	C
MR-AP-MW-3S	TURB	Turbidity	10/3/2023 10:34	3.69	NTU
MR-AP-MW-3S	COND	Conductivity	10/3/2023 10:39	964.1	uS/cm
MR-AP-MW-3S	DO	DO	10/3/2023 10:39	0.18	mg/L
MR-AP-MW-3S	DTW	Depth to Water Detail	10/3/2023 10:39	100.98	ft
MR-AP-MW-3S	ORP	Oxidation Reduction Potention	10/3/2023 10:39	-145.31	mv
MR-AP-MW-3S	PH	pH	10/3/2023 10:39	8.76	SU
MR-AP-MW-3S	SULFIDE	Sulfide	10/3/2023 10:39	0	mg/L
MR-AP-MW-3S	TEMP	Temperature	10/3/2023 10:39	20.19	C
MR-AP-MW-3S	TURB	Turbidity	10/3/2023 10:39	1.71	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-4	COND	Conductivity	10/10/2023 13:31	1002.62	uS/cm
MR-AP-MW-4	DO	DO	10/10/2023 13:31	0.42	mg/L
MR-AP-MW-4	DTW	Depth to Water Detail	10/10/2023 13:31	60.69	ft
MR-AP-MW-4	ORP	Oxidation Reduction Potention	10/10/2023 13:31	97.51	mv
MR-AP-MW-4	PH	pH	10/10/2023 13:31	6.37	SU
MR-AP-MW-4	TEMP	Temperature	10/10/2023 13:31	21.28	C
MR-AP-MW-4	TURB	Turbidity	10/10/2023 13:31	18	NTU
MR-AP-MW-4	COND	Conductivity	10/10/2023 13:36	1002.6	uS/cm
MR-AP-MW-4	DO	DO	10/10/2023 13:36	0.38	mg/L
MR-AP-MW-4	DTW	Depth to Water Detail	10/10/2023 13:36	60.81	ft
MR-AP-MW-4	ORP	Oxidation Reduction Potention	10/10/2023 13:36	103.37	mv
MR-AP-MW-4	PH	pH	10/10/2023 13:36	6.39	SU
MR-AP-MW-4	TEMP	Temperature	10/10/2023 13:36	21.12	C
MR-AP-MW-4	TURB	Turbidity	10/10/2023 13:36	13	NTU
MR-AP-MW-4	COND	Conductivity	10/10/2023 13:41	1001	uS/cm
MR-AP-MW-4	DO	DO	10/10/2023 13:41	0.32	mg/L
MR-AP-MW-4	DTW	Depth to Water Detail	10/10/2023 13:41	60.81	ft
MR-AP-MW-4	ORP	Oxidation Reduction Potention	10/10/2023 13:41	98.56	mv
MR-AP-MW-4	PH	pH	10/10/2023 13:41	6.35	SU
MR-AP-MW-4	TEMP	Temperature	10/10/2023 13:41	21.12	C
MR-AP-MW-4	TURB	Turbidity	10/10/2023 13:41	7.84	NTU
MR-AP-MW-4	COND	Conductivity	10/10/2023 13:46	999.25	uS/cm
MR-AP-MW-4	DO	DO	10/10/2023 13:46	0.31	mg/L
MR-AP-MW-4	DTW	Depth to Water Detail	10/10/2023 13:46	60.81	ft
MR-AP-MW-4	ORP	Oxidation Reduction Potention	10/10/2023 13:46	94.45	mv
MR-AP-MW-4	PH	pH	10/10/2023 13:46	6.36	SU
MR-AP-MW-4	TEMP	Temperature	10/10/2023 13:46	21.14	C
MR-AP-MW-4	TURB	Turbidity	10/10/2023 13:46	6.5	NTU
MR-AP-MW-4	COND	Conductivity	10/10/2023 13:51	996.98	uS/cm
MR-AP-MW-4	DO	DO	10/10/2023 13:51	0.28	mg/L
MR-AP-MW-4	DTW	Depth to Water Detail	10/10/2023 13:51	60.81	ft
MR-AP-MW-4	ORP	Oxidation Reduction Potention	10/10/2023 13:51	93.9	mv
MR-AP-MW-4	PH	pH	10/10/2023 13:51	6.36	SU
MR-AP-MW-4	SULFIDE	Sulfide	10/10/2023 13:51	0	mg/L
MR-AP-MW-4	TEMP	Temperature	10/10/2023 13:51	21.05	C
MR-AP-MW-4	TURB	Turbidity	10/10/2023 13:51	4.65	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-21	COND	Conductivity	10/11/2023 9:36	826.25	uS/cm
MR-AP-MW-21	DO	DO	10/11/2023 9:36	0.11	mg/L
MR-AP-MW-21	DTW	Depth to Water Detail	10/11/2023 9:36	25.86	ft
MR-AP-MW-21	ORP	Oxidation Reduction Potention	10/11/2023 9:36	-176.35	mv
MR-AP-MW-21	PH	pH	10/11/2023 9:36	7.4	SU
MR-AP-MW-21	TEMP	Temperature	10/11/2023 9:36	17.71	C
MR-AP-MW-21	TURB	Turbidity	10/11/2023 9:36	1.28	NTU
MR-AP-MW-21	COND	Conductivity	10/11/2023 9:41	767.16	uS/cm
MR-AP-MW-21	DO	DO	10/11/2023 9:41	0.12	mg/L
MR-AP-MW-21	DTW	Depth to Water Detail	10/11/2023 9:41	25.9	ft
MR-AP-MW-21	ORP	Oxidation Reduction Potention	10/11/2023 9:41	-175.82	mv
MR-AP-MW-21	PH	pH	10/11/2023 9:41	7.45	SU
MR-AP-MW-21	TEMP	Temperature	10/11/2023 9:41	17.69	C
MR-AP-MW-21	TURB	Turbidity	10/11/2023 9:41	0.93	NTU
MR-AP-MW-21	COND	Conductivity	10/11/2023 9:46	734.59	uS/cm
MR-AP-MW-21	DO	DO	10/11/2023 9:46	0.16	mg/L
MR-AP-MW-21	DTW	Depth to Water Detail	10/11/2023 9:46	25.93	ft
MR-AP-MW-21	ORP	Oxidation Reduction Potention	10/11/2023 9:46	-172.38	mv
MR-AP-MW-21	PH	pH	10/11/2023 9:46	7.48	SU
MR-AP-MW-21	TEMP	Temperature	10/11/2023 9:46	17.68	C
MR-AP-MW-21	TURB	Turbidity	10/11/2023 9:46	0.9	NTU
MR-AP-MW-21	COND	Conductivity	10/11/2023 9:51	714.33	uS/cm
MR-AP-MW-21	DO	DO	10/11/2023 9:51	0.19	mg/L
MR-AP-MW-21	DTW	Depth to Water Detail	10/11/2023 9:51	25.96	ft
MR-AP-MW-21	ORP	Oxidation Reduction Potention	10/11/2023 9:51	-168.13	mv
MR-AP-MW-21	PH	pH	10/11/2023 9:51	7.51	SU
MR-AP-MW-21	TEMP	Temperature	10/11/2023 9:51	17.67	C
MR-AP-MW-21	TURB	Turbidity	10/11/2023 9:51	0.83	NTU
MR-AP-MW-21	COND	Conductivity	10/11/2023 9:56	697.42	uS/cm
MR-AP-MW-21	DO	DO	10/11/2023 9:56	0.2	mg/L
MR-AP-MW-21	DTW	Depth to Water Detail	10/11/2023 9:56	25.96	ft
MR-AP-MW-21	ORP	Oxidation Reduction Potention	10/11/2023 9:56	-163.22	mv
MR-AP-MW-21	PH	pH	10/11/2023 9:56	7.5	SU
MR-AP-MW-21	TEMP	Temperature	10/11/2023 9:56	17.67	C
MR-AP-MW-21	TURB	Turbidity	10/11/2023 9:56	0.75	NTU
MR-AP-MW-21	COND	Conductivity	10/11/2023 10:01	686.84	uS/cm
MR-AP-MW-21	DO	DO	10/11/2023 10:01	0.2	mg/L
MR-AP-MW-21	DTW	Depth to Water Detail	10/11/2023 10:01	25.96	ft
MR-AP-MW-21	ORP	Oxidation Reduction Potention	10/11/2023 10:01	-159.97	mv
MR-AP-MW-21	PH	pH	10/11/2023 10:01	7.49	SU
MR-AP-MW-21	SULFIDE	Sulfide	10/11/2023 10:01	0	mg/L
MR-AP-MW-21	TEMP	Temperature	10/11/2023 10:01	17.67	C
MR-AP-MW-21	TURB	Turbidity	10/11/2023 10:01	0.74	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-22I	COND	Conductivity	10/4/2023 13:15	612.36	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 13:15	0.05	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 13:15	31.16	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 13:15	-102.97	mv
MR-AP-MW-22I	PH	pH	10/4/2023 13:15	7.61	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 13:15	18.51	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 13:15	1.03	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 13:20	561.55	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 13:20	0.03	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 13:20	31.21	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 13:20	-104.93	mv
MR-AP-MW-22I	PH	pH	10/4/2023 13:20	7.68	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 13:20	18.43	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 13:20	1.15	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 13:25	522.03	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 13:25	0.03	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 13:25	31.27	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 13:25	-107.64	mv
MR-AP-MW-22I	PH	pH	10/4/2023 13:25	7.72	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 13:25	18.51	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 13:25	1.3	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 13:30	489.3	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 13:30	0.02	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 13:30	31.31	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 13:30	-110.79	mv
MR-AP-MW-22I	PH	pH	10/4/2023 13:30	7.76	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 13:30	18.51	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 13:30	0.71	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 13:35	534.74	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 13:35	0.02	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 13:35	31.33	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 13:35	-113.83	mv
MR-AP-MW-22I	PH	pH	10/4/2023 13:35	7.79	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 13:35	18.5	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 13:35	0.87	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 13:40	578.15	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 13:40	0.02	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 13:40	31.37	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 13:40	-117.28	mv
MR-AP-MW-22I	PH	pH	10/4/2023 13:40	7.82	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 13:40	18.56	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 13:40	0.67	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 13:45	641.77	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 13:45	0.02	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 13:45	31.42	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 13:45	-119.95	mv
MR-AP-MW-22I	PH	pH	10/4/2023 13:45	7.85	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 13:45	18.65	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 13:45	0.8	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 13:50	677.9	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 13:50	0.02	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 13:50	31.42	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 13:50	-123.18	mv
MR-AP-MW-22I	PH	pH	10/4/2023 13:50	7.88	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 13:50	18.74	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 13:50	0.76	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 13:55	712.53	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 13:55	0.08	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 13:55	31.42	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 13:55	-112.98	mv
MR-AP-MW-22I	PH	pH	10/4/2023 13:55	7.9	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 13:55	18.73	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 13:55	0.85	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 14:00	745.07	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 14:00	0.02	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 14:00	31.42	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 14:00	-122.78	mv
MR-AP-MW-22I	PH	pH	10/4/2023 14:00	7.93	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 14:00	18.73	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 14:00	1.42	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 14:05	772.31	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 14:05	0.02	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 14:05	31.42	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 14:05	-126.96	mv
MR-AP-MW-22I	PH	pH	10/4/2023 14:05	7.95	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 14:05	18.7	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 14:05	1.24	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 14:10	799.77	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 14:10	0.01	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 14:10	31.42	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 14:10	-130.12	mv
MR-AP-MW-22I	PH	pH	10/4/2023 14:10	7.97	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 14:10	18.65	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 14:10	1.07	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 14:15	819.14	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 14:15	0.02	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 14:15	31.42	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 14:15	-132.54	mv
MR-AP-MW-22I	PH	pH	10/4/2023 14:15	7.99	SU
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 14:15	18.68	C

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 14:15	1.2	NTU
MR-AP-MW-22I	COND	Conductivity	10/4/2023 14:20	838.33	uS/cm
MR-AP-MW-22I	DO	DO	10/4/2023 14:20	0.01	mg/L
MR-AP-MW-22I	DTW	Depth to Water Detail	10/4/2023 14:20	31.42	ft
MR-AP-MW-22I	ORP	Oxidation Reduction Potention	10/4/2023 14:20	-135.21	mv
MR-AP-MW-22I	PH	pH	10/4/2023 14:20	8.02	SU
MR-AP-MW-22I	SULFIDE	Sulfide	10/4/2023 14:20	0	mg/L
MR-AP-MW-22I	TEMP	Temperature	10/4/2023 14:20	18.7	C
MR-AP-MW-22I	TURB	Turbidity	10/4/2023 14:20	1.28	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-22S	COND	Conductivity	10/4/2023 15:12	1248.9	uS/cm
MR-AP-MW-22S	DO	DO	10/4/2023 15:12	0.05	mg/L
MR-AP-MW-22S	DTW	Depth to Water Detail	10/4/2023 15:12	17.31	ft
MR-AP-MW-22S	ORP	Oxidation Reduction Potention	10/4/2023 15:12	-91.6	mv
MR-AP-MW-22S	PH	pH	10/4/2023 15:12	6.89	SU
MR-AP-MW-22S	TEMP	Temperature	10/4/2023 15:12	18.11	C
MR-AP-MW-22S	TURB	Turbidity	10/4/2023 15:12	0.68	NTU
MR-AP-MW-22S	COND	Conductivity	10/4/2023 15:17	1256.48	uS/cm
MR-AP-MW-22S	DO	DO	10/4/2023 15:17	0.05	mg/L
MR-AP-MW-22S	DTW	Depth to Water Detail	10/4/2023 15:17	17.42	ft
MR-AP-MW-22S	ORP	Oxidation Reduction Potention	10/4/2023 15:17	-82.42	mv
MR-AP-MW-22S	PH	pH	10/4/2023 15:17	6.82	SU
MR-AP-MW-22S	TEMP	Temperature	10/4/2023 15:17	18.04	C
MR-AP-MW-22S	TURB	Turbidity	10/4/2023 15:17	0.76	NTU
MR-AP-MW-22S	COND	Conductivity	10/4/2023 15:22	1255.95	uS/cm
MR-AP-MW-22S	DO	DO	10/4/2023 15:22	0.04	mg/L
MR-AP-MW-22S	DTW	Depth to Water Detail	10/4/2023 15:22	17.5	ft
MR-AP-MW-22S	ORP	Oxidation Reduction Potention	10/4/2023 15:22	-76.83	mv
MR-AP-MW-22S	PH	pH	10/4/2023 15:22	6.78	SU
MR-AP-MW-22S	TEMP	Temperature	10/4/2023 15:22	17.95	C
MR-AP-MW-22S	TURB	Turbidity	10/4/2023 15:22	0.61	NTU
MR-AP-MW-22S	COND	Conductivity	10/4/2023 15:27	1258.05	uS/cm
MR-AP-MW-22S	DO	DO	10/4/2023 15:27	0.04	mg/L
MR-AP-MW-22S	DTW	Depth to Water Detail	10/4/2023 15:27	17.58	ft
MR-AP-MW-22S	ORP	Oxidation Reduction Potention	10/4/2023 15:27	-73.92	mv
MR-AP-MW-22S	PH	pH	10/4/2023 15:27	6.76	SU
MR-AP-MW-22S	TEMP	Temperature	10/4/2023 15:27	17.93	C
MR-AP-MW-22S	TURB	Turbidity	10/4/2023 15:27	0.67	NTU
MR-AP-MW-22S	COND	Conductivity	10/4/2023 15:32	1260.32	uS/cm
MR-AP-MW-22S	DO	DO	10/4/2023 15:32	0.04	mg/L
MR-AP-MW-22S	DTW	Depth to Water Detail	10/4/2023 15:32	17.62	ft
MR-AP-MW-22S	ORP	Oxidation Reduction Potention	10/4/2023 15:32	-71.55	mv
MR-AP-MW-22S	PH	pH	10/4/2023 15:32	6.75	SU
MR-AP-MW-22S	SULFIDE	Sulfide	10/4/2023 15:32	0	mg/L
MR-AP-MW-22S	TEMP	Temperature	10/4/2023 15:32	17.9	C
MR-AP-MW-22S	TURB	Turbidity	10/4/2023 15:32	0.72	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-23	COND	Conductivity	10/4/2023 10:51	7964.85	uS/cm
MR-AP-MW-23	DO	DO	10/4/2023 10:51	0.47	mg/L
MR-AP-MW-23	DTW	Depth to Water Detail	10/4/2023 10:51	54.31	ft
MR-AP-MW-23	ORP	Oxidation Reduction Potention	10/4/2023 10:51	-73.83	mv
MR-AP-MW-23	PH	pH	10/4/2023 10:51	7.61	SU
MR-AP-MW-23	TEMP	Temperature	10/4/2023 10:51	20.34	C
MR-AP-MW-23	TURB	Turbidity	10/4/2023 10:51	1.07	NTU
MR-AP-MW-23	COND	Conductivity	10/4/2023 10:56	7964.95	uS/cm
MR-AP-MW-23	DO	DO	10/4/2023 10:56	0.44	mg/L
MR-AP-MW-23	DTW	Depth to Water Detail	10/4/2023 10:56	54.5	ft
MR-AP-MW-23	ORP	Oxidation Reduction Potention	10/4/2023 10:56	-101.39	mv
MR-AP-MW-23	PH	pH	10/4/2023 10:56	7.63	SU
MR-AP-MW-23	TEMP	Temperature	10/4/2023 10:56	20.25	C
MR-AP-MW-23	TURB	Turbidity	10/4/2023 10:56	0.77	NTU
MR-AP-MW-23	COND	Conductivity	10/4/2023 11:01	7957.69	uS/cm
MR-AP-MW-23	DO	DO	10/4/2023 11:01	0.45	mg/L
MR-AP-MW-23	DTW	Depth to Water Detail	10/4/2023 11:01	54.64	ft
MR-AP-MW-23	ORP	Oxidation Reduction Potention	10/4/2023 11:01	-107.53	mv
MR-AP-MW-23	PH	pH	10/4/2023 11:01	7.62	SU
MR-AP-MW-23	TEMP	Temperature	10/4/2023 11:01	20.36	C
MR-AP-MW-23	TURB	Turbidity	10/4/2023 11:01	0.92	NTU
MR-AP-MW-23	COND	Conductivity	10/4/2023 11:06	7940.63	uS/cm
MR-AP-MW-23	DO	DO	10/4/2023 11:06	0.43	mg/L
MR-AP-MW-23	DTW	Depth to Water Detail	10/4/2023 11:06	54.77	ft
MR-AP-MW-23	ORP	Oxidation Reduction Potention	10/4/2023 11:06	-108.47	mv
MR-AP-MW-23	PH	pH	10/4/2023 11:06	7.63	SU
MR-AP-MW-23	SULFIDE	Sulfide	10/4/2023 11:06	0	mg/L
MR-AP-MW-23	TEMP	Temperature	10/4/2023 11:06	20.33	C
MR-AP-MW-23	TURB	Turbidity	10/4/2023 11:06	1.43	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-23A	COND	Conductivity	10/4/2023 11:43	8204.22	uS/cm
MR-AP-MW-23A	DO	DO	10/4/2023 11:43	0.34	mg/L
MR-AP-MW-23A	DTW	Depth to Water Detail	10/4/2023 11:43	45.58	ft
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	10/4/2023 11:43	-93.64	mv
MR-AP-MW-23A	PH	pH	10/4/2023 11:43	7.7	SU
MR-AP-MW-23A	TEMP	Temperature	10/4/2023 11:43	20.85	C
MR-AP-MW-23A	TURB	Turbidity	10/4/2023 11:43	0.58	NTU
MR-AP-MW-23A	COND	Conductivity	10/4/2023 11:48	8173.26	uS/cm
MR-AP-MW-23A	DO	DO	10/4/2023 11:48	0.29	mg/L
MR-AP-MW-23A	DTW	Depth to Water Detail	10/4/2023 11:48	45.86	ft
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	10/4/2023 11:48	-89.75	mv
MR-AP-MW-23A	PH	pH	10/4/2023 11:48	7.64	SU
MR-AP-MW-23A	TEMP	Temperature	10/4/2023 11:48	20.84	C
MR-AP-MW-23A	TURB	Turbidity	10/4/2023 11:48	0.72	NTU
MR-AP-MW-23A	COND	Conductivity	10/4/2023 11:53	8131.32	uS/cm
MR-AP-MW-23A	DO	DO	10/4/2023 11:53	0.25	mg/L
MR-AP-MW-23A	DTW	Depth to Water Detail	10/4/2023 11:53	45.98	ft
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	10/4/2023 11:53	-85.51	mv
MR-AP-MW-23A	PH	pH	10/4/2023 11:53	7.56	SU
MR-AP-MW-23A	TEMP	Temperature	10/4/2023 11:53	20.82	C
MR-AP-MW-23A	TURB	Turbidity	10/4/2023 11:53	0.7	NTU
MR-AP-MW-23A	COND	Conductivity	10/4/2023 11:58	8083.76	uS/cm
MR-AP-MW-23A	DO	DO	10/4/2023 11:58	0.22	mg/L
MR-AP-MW-23A	DTW	Depth to Water Detail	10/4/2023 11:58	46.11	ft
MR-AP-MW-23A	ORP	Oxidation Reduction Potention	10/4/2023 11:58	-83.94	mv
MR-AP-MW-23A	PH	pH	10/4/2023 11:58	7.54	SU
MR-AP-MW-23A	SULFIDE	Sulfide	10/4/2023 11:58	0	mg/L
MR-AP-MW-23A	TEMP	Temperature	10/4/2023 11:58	20.66	C
MR-AP-MW-23A	TURB	Turbidity	10/4/2023 11:58	0.62	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-10	COND	Conductivity	10/9/2023 14:28	2288.06	uS/cm
MR-AP-MW-10	DO	DO	10/9/2023 14:28	0.23	mg/L
MR-AP-MW-10	DTW	Depth to Water Detail	10/9/2023 14:28	155.12	ft
MR-AP-MW-10	ORP	Oxidation Reduction Potention	10/9/2023 14:28	-36.39	mv
MR-AP-MW-10	PH	pH	10/9/2023 14:28	7.05	SU
MR-AP-MW-10	TEMP	Temperature	10/9/2023 14:28	17.9	C
MR-AP-MW-10	TURB	Turbidity	10/9/2023 14:28	17.6	NTU
MR-AP-MW-10	COND	Conductivity	10/9/2023 14:33	2434.8	uS/cm
MR-AP-MW-10	DO	DO	10/9/2023 14:33	0.16	mg/L
MR-AP-MW-10	DTW	Depth to Water Detail	10/9/2023 14:33	155.16	ft
MR-AP-MW-10	ORP	Oxidation Reduction Potention	10/9/2023 14:33	-49.26	mv
MR-AP-MW-10	PH	pH	10/9/2023 14:33	7.07	SU
MR-AP-MW-10	TEMP	Temperature	10/9/2023 14:33	17.74	C
MR-AP-MW-10	TURB	Turbidity	10/9/2023 14:33	18.6	NTU
MR-AP-MW-10	COND	Conductivity	10/9/2023 14:38	2583.02	uS/cm
MR-AP-MW-10	DO	DO	10/9/2023 14:38	0.16	mg/L
MR-AP-MW-10	DTW	Depth to Water Detail	10/9/2023 14:38	155.18	ft
MR-AP-MW-10	ORP	Oxidation Reduction Potention	10/9/2023 14:38	-56.36	mv
MR-AP-MW-10	PH	pH	10/9/2023 14:38	7.12	SU
MR-AP-MW-10	TEMP	Temperature	10/9/2023 14:38	17.64	C
MR-AP-MW-10	TURB	Turbidity	10/9/2023 14:38	4.28	NTU
MR-AP-MW-10	COND	Conductivity	10/9/2023 14:43	2667.42	uS/cm
MR-AP-MW-10	DO	DO	10/9/2023 14:43	0.16	mg/L
MR-AP-MW-10	DTW	Depth to Water Detail	10/9/2023 14:43	155.2	ft
MR-AP-MW-10	ORP	Oxidation Reduction Potention	10/9/2023 14:43	-61.21	mv
MR-AP-MW-10	PH	pH	10/9/2023 14:43	7.14	SU
MR-AP-MW-10	TEMP	Temperature	10/9/2023 14:43	17.65	C
MR-AP-MW-10	TURB	Turbidity	10/9/2023 14:43	3.77	NTU
MR-AP-MW-10	COND	Conductivity	10/9/2023 14:48	2732.17	uS/cm
MR-AP-MW-10	DO	DO	10/9/2023 14:48	0.16	mg/L
MR-AP-MW-10	DTW	Depth to Water Detail	10/9/2023 14:48	155.2	ft
MR-AP-MW-10	ORP	Oxidation Reduction Potention	10/9/2023 14:48	-63.21	mv
MR-AP-MW-10	PH	pH	10/9/2023 14:48	7.15	SU
MR-AP-MW-10	TEMP	Temperature	10/9/2023 14:48	17.62	C
MR-AP-MW-10	TURB	Turbidity	10/9/2023 14:48	2.96	NTU
MR-AP-MW-10	COND	Conductivity	10/9/2023 14:53	2780.49	uS/cm
MR-AP-MW-10	DO	DO	10/9/2023 14:53	0.15	mg/L
MR-AP-MW-10	DTW	Depth to Water Detail	10/9/2023 14:53	155.2	ft
MR-AP-MW-10	ORP	Oxidation Reduction Potention	10/9/2023 14:53	-66.55	mv
MR-AP-MW-10	PH	pH	10/9/2023 14:53	7.16	SU
MR-AP-MW-10	SULFIDE	Sulfide	10/9/2023 14:53	0	mg/L
MR-AP-MW-10	TEMP	Temperature	10/9/2023 14:53	17.59	C
MR-AP-MW-10	TURB	Turbidity	10/9/2023 14:53	2.81	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-35H	COND	Conductivity	10/10/2023 10:17	630.37	uS/cm
MR-AP-MW-35H	DO	DO	10/10/2023 10:17	0.07	mg/L
MR-AP-MW-35H	DTW	Depth to Water Detail	10/10/2023 10:17	13.61	ft
MR-AP-MW-35H	ORP	Oxidation Reduction Potention	10/10/2023 10:17	18.85	mv
MR-AP-MW-35H	PH	pH	10/10/2023 10:17	6.78	SU
MR-AP-MW-35H	TEMP	Temperature	10/10/2023 10:17	19.03	C
MR-AP-MW-35H	TURB	Turbidity	10/10/2023 10:17	1.67	NTU
MR-AP-MW-35H	COND	Conductivity	10/10/2023 10:22	613.75	uS/cm
MR-AP-MW-35H	DO	DO	10/10/2023 10:22	0.06	mg/L
MR-AP-MW-35H	DTW	Depth to Water Detail	10/10/2023 10:22	13.62	ft
MR-AP-MW-35H	ORP	Oxidation Reduction Potention	10/10/2023 10:22	-8.93	mv
MR-AP-MW-35H	PH	pH	10/10/2023 10:22	6.71	SU
MR-AP-MW-35H	TEMP	Temperature	10/10/2023 10:22	19	C
MR-AP-MW-35H	TURB	Turbidity	10/10/2023 10:22	1.69	NTU
MR-AP-MW-35H	COND	Conductivity	10/10/2023 10:27	606.7	uS/cm
MR-AP-MW-35H	DO	DO	10/10/2023 10:27	0.05	mg/L
MR-AP-MW-35H	DTW	Depth to Water Detail	10/10/2023 10:27	13.62	ft
MR-AP-MW-35H	ORP	Oxidation Reduction Potention	10/10/2023 10:27	-16.49	mv
MR-AP-MW-35H	PH	pH	10/10/2023 10:27	6.66	SU
MR-AP-MW-35H	TEMP	Temperature	10/10/2023 10:27	18.97	C
MR-AP-MW-35H	TURB	Turbidity	10/10/2023 10:27	1.48	NTU
MR-AP-MW-35H	COND	Conductivity	10/10/2023 10:32	603.18	uS/cm
MR-AP-MW-35H	DO	DO	10/10/2023 10:32	0.05	mg/L
MR-AP-MW-35H	DTW	Depth to Water Detail	10/10/2023 10:32	13.62	ft
MR-AP-MW-35H	ORP	Oxidation Reduction Potention	10/10/2023 10:32	-20.25	mv
MR-AP-MW-35H	PH	pH	10/10/2023 10:32	6.65	SU
MR-AP-MW-35H	SULFIDE	Sulfide	10/10/2023 10:32	0	mg/L
MR-AP-MW-35H	TEMP	Temperature	10/10/2023 10:32	19	C
MR-AP-MW-35H	TURB	Turbidity	10/10/2023 10:32	1.16	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-37H	COND	Conductivity	10/9/2023 13:02	501.24	uS/cm
MR-AP-MW-37H	DO	DO	10/9/2023 13:02	0.37	mg/L
MR-AP-MW-37H	DTW	Depth to Water Detail	10/9/2023 13:02	112.16	ft
MR-AP-MW-37H	ORP	Oxidation Reduction Potention	10/9/2023 13:02	-18.06	mv
MR-AP-MW-37H	PH	pH	10/9/2023 13:02	6.96	SU
MR-AP-MW-37H	TEMP	Temperature	10/9/2023 13:02	17.89	C
MR-AP-MW-37H	TURB	Turbidity	10/9/2023 13:02	1.93	NTU
MR-AP-MW-37H	COND	Conductivity	10/9/2023 13:07	481.04	uS/cm
MR-AP-MW-37H	DO	DO	10/9/2023 13:07	0.56	mg/L
MR-AP-MW-37H	DTW	Depth to Water Detail	10/9/2023 13:07	113.81	ft
MR-AP-MW-37H	ORP	Oxidation Reduction Potention	10/9/2023 13:07	-33.8	mv
MR-AP-MW-37H	PH	pH	10/9/2023 13:07	7.03	SU
MR-AP-MW-37H	TEMP	Temperature	10/9/2023 13:07	17.81	C
MR-AP-MW-37H	TURB	Turbidity	10/9/2023 13:07	1.3	NTU
MR-AP-MW-37H	COND	Conductivity	10/9/2023 13:12	469.59	uS/cm
MR-AP-MW-37H	DO	DO	10/9/2023 13:12	0.54	mg/L
MR-AP-MW-37H	DTW	Depth to Water Detail	10/9/2023 13:12	113.97	ft
MR-AP-MW-37H	ORP	Oxidation Reduction Potention	10/9/2023 13:12	-43.18	mv
MR-AP-MW-37H	PH	pH	10/9/2023 13:12	7.08	SU
MR-AP-MW-37H	TEMP	Temperature	10/9/2023 13:12	17.84	C
MR-AP-MW-37H	TURB	Turbidity	10/9/2023 13:12	1.4	NTU
MR-AP-MW-37H	COND	Conductivity	10/9/2023 13:17	462.33	uS/cm
MR-AP-MW-37H	DO	DO	10/9/2023 13:17	0.5	mg/L
MR-AP-MW-37H	DTW	Depth to Water Detail	10/9/2023 13:17	113.08	ft
MR-AP-MW-37H	ORP	Oxidation Reduction Potention	10/9/2023 13:17	-49.23	mv
MR-AP-MW-37H	PH	pH	10/9/2023 13:17	7.12	SU
MR-AP-MW-37H	SULFIDE	Sulfide	10/9/2023 13:17	0	mg/L
MR-AP-MW-37H	TEMP	Temperature	10/9/2023 13:17	17.81	C
MR-AP-MW-37H	TURB	Turbidity	10/9/2023 13:17	1.09	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-36HR	COND	Conductivity	10/12/2023 11:27	3303.45	uS/cm
MR-AP-MW-36HR	DO	DO	10/12/2023 11:27	0.14	mg/L
MR-AP-MW-36HR	DTW	Depth to Water Detail	10/12/2023 11:27	248.94	ft
MR-AP-MW-36HR	ORP	Oxidation Reduction Potention	10/12/2023 11:27	5.23	mv
MR-AP-MW-36HR	PH	pH	10/12/2023 11:27	6.77	SU
MR-AP-MW-36HR	TEMP	Temperature	10/12/2023 11:27	18.1	C
MR-AP-MW-36HR	TURB	Turbidity	10/12/2023 11:27	4.34	NTU
MR-AP-MW-36HR	COND	Conductivity	10/12/2023 11:32	3386.29	uS/cm
MR-AP-MW-36HR	DO	DO	10/12/2023 11:32	0.21	mg/L
MR-AP-MW-36HR	DTW	Depth to Water Detail	10/12/2023 11:32	249.02	ft
MR-AP-MW-36HR	ORP	Oxidation Reduction Potention	10/12/2023 11:32	5.61	mv
MR-AP-MW-36HR	PH	pH	10/12/2023 11:32	6.79	SU
MR-AP-MW-36HR	TEMP	Temperature	10/12/2023 11:32	18.43	C
MR-AP-MW-36HR	TURB	Turbidity	10/12/2023 11:32	2.84	NTU
MR-AP-MW-36HR	COND	Conductivity	10/12/2023 11:37	3404.79	uS/cm
MR-AP-MW-36HR	DO	DO	10/12/2023 11:37	0.22	mg/L
MR-AP-MW-36HR	DTW	Depth to Water Detail	10/12/2023 11:37	249.02	ft
MR-AP-MW-36HR	ORP	Oxidation Reduction Potention	10/12/2023 11:37	5.04	mv
MR-AP-MW-36HR	PH	pH	10/12/2023 11:37	6.82	SU
MR-AP-MW-36HR	TEMP	Temperature	10/12/2023 11:37	18.46	C
MR-AP-MW-36HR	TURB	Turbidity	10/12/2023 11:37	3.29	NTU
MR-AP-MW-36HR	COND	Conductivity	10/12/2023 11:42	3592.47	uS/cm
MR-AP-MW-36HR	DO	DO	10/12/2023 11:42	0.25	mg/L
MR-AP-MW-36HR	DTW	Depth to Water Detail	10/12/2023 11:42	249.02	ft
MR-AP-MW-36HR	ORP	Oxidation Reduction Potention	10/12/2023 11:42	3.41	mv
MR-AP-MW-36HR	PH	pH	10/12/2023 11:42	6.86	SU
MR-AP-MW-36HR	TEMP	Temperature	10/12/2023 11:42	18.43	C
MR-AP-MW-36HR	TURB	Turbidity	10/12/2023 11:42	3.43	NTU
MR-AP-MW-36HR	COND	Conductivity	10/12/2023 11:47	3583.99	uS/cm
MR-AP-MW-36HR	DO	DO	10/12/2023 11:47	0.26	mg/L
MR-AP-MW-36HR	DTW	Depth to Water Detail	10/12/2023 11:47	249.02	ft
MR-AP-MW-36HR	ORP	Oxidation Reduction Potention	10/12/2023 11:47	1.48	mv
MR-AP-MW-36HR	PH	pH	10/12/2023 11:47	6.89	SU
MR-AP-MW-36HR	TEMP	Temperature	10/12/2023 11:47	18.43	C
MR-AP-MW-36HR	TURB	Turbidity	10/12/2023 11:47	3.3	NTU
MR-AP-MW-36HR	COND	Conductivity	10/12/2023 11:52	3558.57	uS/cm
MR-AP-MW-36HR	DO	DO	10/12/2023 11:52	0.27	mg/L
MR-AP-MW-36HR	DTW	Depth to Water Detail	10/12/2023 11:52	249.02	ft
MR-AP-MW-36HR	ORP	Oxidation Reduction Potention	10/12/2023 11:52	0.67	mv
MR-AP-MW-36HR	PH	pH	10/12/2023 11:52	6.91	SU
MR-AP-MW-36HR	SULFIDE	Sulfide	10/12/2023 11:52	0	mg/L
MR-AP-MW-36HR	TEMP	Temperature	10/12/2023 11:52	18.42	C
MR-AP-MW-36HR	TURB	Turbidity	10/12/2023 11:52	2.81	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:07	3322.14	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:07	0.28	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:07	204.7	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:07	-337.16	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:07	11.81	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:07	17.92	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:07	4.55	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:12	3074.47	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:12	0.25	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:12	205.7	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:12	-343.41	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:12	11.81	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:12	17.98	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:12	5.5	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:17	2692.36	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:17	0.23	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:17	206.85	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:17	-345.63	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:17	11.77	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:17	17.95	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:17	5.6	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:22	2292.5	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:22	0.25	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:22	207.55	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:22	-344.72	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:22	11.72	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:22	17.96	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:22	5.99	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:27	2145.77	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:27	0.49	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:27	206.92	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:27	-326.71	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:27	11.87	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:27	18.39	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:27	6.22	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:32	2091.84	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:32	0.92	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:32	205.6	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:32	-309.39	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:32	11.9	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:32	18.49	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:32	11.2	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:37	1829.6	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:37	0.45	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:37	205.95	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:37	-328.26	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:37	11.92	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:37	18.28	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:37	15	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:42	1776.11	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:42	0.3	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:42	206.28	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:42	-333.12	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:42	11.89	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:42	18.12	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:42	17	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:47	933.12	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:47	0.27	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:47	206.63	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:47	-320.09	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:47	11.04	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:47	18.13	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:47	15.8	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:52	900.22	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:52	0.24	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:52	207.1	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:52	-309.72	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:52	10.75	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:52	18.15	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:52	15.7	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 11:57	922.94	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 11:57	0.23	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 11:57	207.5	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 11:57	-314.1	mv
MR-AP-MW-1	PH	pH	10/11/2023 11:57	10.92	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 11:57	18.06	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 11:57	14.9	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:02	930.47	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:02	0.2	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:02	207.64	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:02	-316.67	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:02	10.96	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:02	18.13	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:02	13.9	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:07	915.75	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:07	0.19	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:07	207.92	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:07	-316.81	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:07	10.86	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:07	18.06	C

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:07	15.9	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:12	908.84	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:12	0.39	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:12	207.4	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:12	-298.97	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:12	10.7	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:12	18.42	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:12	3.5	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:17	897.2	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:17	0.51	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:17	206.78	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:17	-289.14	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:17	10.54	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:17	18.67	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:17	12.8	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:22	889.01	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:22	0.54	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:22	206.1	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:22	-281.78	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:22	10.39	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:22	18.72	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:22	16.7	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:27	925.27	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:27	0.56	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:27	205.45	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:27	-272.68	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:27	10.15	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:27	18.6	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:27	17.8	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:32	1073.39	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:32	0.56	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:32	205	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:32	-256.07	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:32	9.78	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:32	18.7	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:32	18.7	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:37	1161.04	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:37	0.54	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:37	204.5	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:37	-232.06	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:37	9.23	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:37	18.74	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:37	16.2	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:42	1252.47	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:42	0.57	mg/L

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:42	204.2	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:42	-209.98	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:42	8.77	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:42	18.63	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:42	11.5	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:47	1300.9	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:47	0.53	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:47	203.82	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:47	-199.21	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:47	8.5	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:47	18.62	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:47	8.58	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:52	1344.28	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:52	0.54	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:52	203.5	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:52	-193.99	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:52	8.31	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:52	18.64	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:52	5.57	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 12:57	1363.47	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 12:57	0.52	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 12:57	203.25	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 12:57	-190.27	mv
MR-AP-MW-1	PH	pH	10/11/2023 12:57	8.15	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 12:57	18.66	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 12:57	4.84	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 13:02	1364.31	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 13:02	0.47	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 13:02	203.02	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 13:02	-192.76	mv
MR-AP-MW-1	PH	pH	10/11/2023 13:02	8.04	SU
MR-AP-MW-1	TEMP	Temperature	10/11/2023 13:02	18.62	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 13:02	4.27	NTU
MR-AP-MW-1	COND	Conductivity	10/11/2023 13:07	1358.38	uS/cm
MR-AP-MW-1	DO	DO	10/11/2023 13:07	0.4	mg/L
MR-AP-MW-1	DTW	Depth to Water Detail	10/11/2023 13:07	203.02	ft
MR-AP-MW-1	ORP	Oxidation Reduction Potention	10/11/2023 13:07	-190.45	mv
MR-AP-MW-1	PH	pH	10/11/2023 13:07	7.96	SU
MR-AP-MW-1	SULFIDE	Sulfide	10/11/2023 13:07	0	mg/L
MR-AP-MW-1	TEMP	Temperature	10/11/2023 13:07	18.6	C
MR-AP-MW-1	TURB	Turbidity	10/11/2023 13:07	3.39	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-2	COND	Conductivity	10/10/2023 13:28	1635.88	uS/cm
MR-AP-MW-2	DO	DO	10/10/2023 13:28	1.22	mg/L
MR-AP-MW-2	DTW	Depth to Water Detail	10/10/2023 13:28	204.81	ft
MR-AP-MW-2	ORP	Oxidation Reduction Potention	10/10/2023 13:28	11.2	mv
MR-AP-MW-2	PH	pH	10/10/2023 13:28	5.6	SU
MR-AP-MW-2	TEMP	Temperature	10/10/2023 13:28	21.17	C
MR-AP-MW-2	TURB	Turbidity	10/10/2023 13:28	5.17	NTU
MR-AP-MW-2	COND	Conductivity	10/10/2023 13:33	1262.6	uS/cm
MR-AP-MW-2	DO	DO	10/10/2023 13:33	0.38	mg/L
MR-AP-MW-2	DTW	Depth to Water Detail	10/10/2023 13:33	205	ft
MR-AP-MW-2	ORP	Oxidation Reduction Potention	10/10/2023 13:33	-71.92	mv
MR-AP-MW-2	PH	pH	10/10/2023 13:33	6.12	SU
MR-AP-MW-2	TEMP	Temperature	10/10/2023 13:33	20.94	C
MR-AP-MW-2	TURB	Turbidity	10/10/2023 13:33	4.96	NTU
MR-AP-MW-2	COND	Conductivity	10/10/2023 13:38	1673.19	uS/cm
MR-AP-MW-2	DO	DO	10/10/2023 13:38	0.31	mg/L
MR-AP-MW-2	DTW	Depth to Water Detail	10/10/2023 13:38	205.08	ft
MR-AP-MW-2	ORP	Oxidation Reduction Potention	10/10/2023 13:38	-69.29	mv
MR-AP-MW-2	PH	pH	10/10/2023 13:38	6.02	SU
MR-AP-MW-2	TEMP	Temperature	10/10/2023 13:38	20.54	C
MR-AP-MW-2	TURB	Turbidity	10/10/2023 13:38	4.37	NTU
MR-AP-MW-2	COND	Conductivity	10/10/2023 13:43	2515.92	uS/cm
MR-AP-MW-2	DO	DO	10/10/2023 13:43	0.28	mg/L
MR-AP-MW-2	DTW	Depth to Water Detail	10/10/2023 13:43	205.13	ft
MR-AP-MW-2	ORP	Oxidation Reduction Potention	10/10/2023 13:43	-79.96	mv
MR-AP-MW-2	PH	pH	10/10/2023 13:43	6.03	SU
MR-AP-MW-2	TEMP	Temperature	10/10/2023 13:43	20.87	C
MR-AP-MW-2	TURB	Turbidity	10/10/2023 13:43	4.02	NTU
MR-AP-MW-2	COND	Conductivity	10/10/2023 13:48	2917.88	uS/cm
MR-AP-MW-2	DO	DO	10/10/2023 13:48	0.25	mg/L
MR-AP-MW-2	DTW	Depth to Water Detail	10/10/2023 13:48	205.18	ft
MR-AP-MW-2	ORP	Oxidation Reduction Potention	10/10/2023 13:48	-86.58	mv
MR-AP-MW-2	PH	pH	10/10/2023 13:48	6.09	SU
MR-AP-MW-2	TEMP	Temperature	10/10/2023 13:48	20.47	C
MR-AP-MW-2	TURB	Turbidity	10/10/2023 13:48	3.58	NTU
MR-AP-MW-2	COND	Conductivity	10/10/2023 13:53	3028.81	uS/cm
MR-AP-MW-2	DO	DO	10/10/2023 13:53	0.24	mg/L
MR-AP-MW-2	DTW	Depth to Water Detail	10/10/2023 13:53	205.24	ft
MR-AP-MW-2	ORP	Oxidation Reduction Potention	10/10/2023 13:53	-89.51	mv
MR-AP-MW-2	PH	pH	10/10/2023 13:53	6.14	SU
MR-AP-MW-2	TEMP	Temperature	10/10/2023 13:53	20.47	C
MR-AP-MW-2	TURB	Turbidity	10/10/2023 13:53	3.33	NTU
MR-AP-MW-2	COND	Conductivity	10/10/2023 13:58	3074.62	uS/cm
MR-AP-MW-2	DO	DO	10/10/2023 13:58	0.24	mg/L
MR-AP-MW-2	DTW	Depth to Water Detail	10/10/2023 13:58	205.26	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-2	ORP	Oxidation Reduction Potention	10/10/2023 13:58	-90.46	mv
MR-AP-MW-2	PH	pH	10/10/2023 13:58	6.17	SU
MR-AP-MW-2	TEMP	Temperature	10/10/2023 13:58	20.31	C
MR-AP-MW-2	TURB	Turbidity	10/10/2023 13:58	3.12	NTU
MR-AP-MW-2	COND	Conductivity	10/10/2023 14:03	3056.2	uS/cm
MR-AP-MW-2	DO	DO	10/10/2023 14:03	0.24	mg/L
MR-AP-MW-2	DTW	Depth to Water Detail	10/10/2023 14:03	205.27	ft
MR-AP-MW-2	ORP	Oxidation Reduction Potention	10/10/2023 14:03	-89.35	mv
MR-AP-MW-2	PH	pH	10/10/2023 14:03	6.18	SU
MR-AP-MW-2	SULFIDE	Sulfide	10/10/2023 14:03	0	mg/L
MR-AP-MW-2	TEMP	Temperature	10/10/2023 14:03	20.44	C
MR-AP-MW-2	TURB	Turbidity	10/10/2023 14:03	3.18	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-11	COND	Conductivity	10/11/2023 10:28	1657.46	uS/cm
MR-AP-MW-11	DO	DO	10/11/2023 10:28	2.13	mg/L
MR-AP-MW-11	DTW	Depth to Water Detail	10/11/2023 10:28	239.89	ft
MR-AP-MW-11	ORP	Oxidation Reduction Potention	10/11/2023 10:28	-58.21	mv
MR-AP-MW-11	PH	pH	10/11/2023 10:28	6.83	SU
MR-AP-MW-11	TEMP	Temperature	10/11/2023 10:28	17.95	C
MR-AP-MW-11	TURB	Turbidity	10/11/2023 10:28	5.89	NTU
MR-AP-MW-11	COND	Conductivity	10/11/2023 10:33	1658.47	uS/cm
MR-AP-MW-11	DO	DO	10/11/2023 10:33	0.59	mg/L
MR-AP-MW-11	DTW	Depth to Water Detail	10/11/2023 10:33	241.01	ft
MR-AP-MW-11	ORP	Oxidation Reduction Potention	10/11/2023 10:33	-46.66	mv
MR-AP-MW-11	PH	pH	10/11/2023 10:33	6.59	SU
MR-AP-MW-11	TEMP	Temperature	10/11/2023 10:33	17.84	C
MR-AP-MW-11	TURB	Turbidity	10/11/2023 10:33	5.15	NTU
MR-AP-MW-11	COND	Conductivity	10/11/2023 10:38	1655.16	uS/cm
MR-AP-MW-11	DO	DO	10/11/2023 10:38	0.62	mg/L
MR-AP-MW-11	DTW	Depth to Water Detail	10/11/2023 10:38	241.39	ft
MR-AP-MW-11	ORP	Oxidation Reduction Potention	10/11/2023 10:38	-48.48	mv
MR-AP-MW-11	PH	pH	10/11/2023 10:38	6.58	SU
MR-AP-MW-11	TEMP	Temperature	10/11/2023 10:38	18.07	C
MR-AP-MW-11	TURB	Turbidity	10/11/2023 10:38	6.13	NTU
MR-AP-MW-11	COND	Conductivity	10/11/2023 10:43	1653.32	uS/cm
MR-AP-MW-11	DO	DO	10/11/2023 10:43	0.64	mg/L
MR-AP-MW-11	DTW	Depth to Water Detail	10/11/2023 10:43	241.66	ft
MR-AP-MW-11	ORP	Oxidation Reduction Potention	10/11/2023 10:43	-49.41	mv
MR-AP-MW-11	PH	pH	10/11/2023 10:43	6.58	SU
MR-AP-MW-11	TEMP	Temperature	10/11/2023 10:43	18.2	C
MR-AP-MW-11	TURB	Turbidity	10/11/2023 10:43	6.78	NTU
MR-AP-MW-11	COND	Conductivity	10/11/2023 10:48	1651.26	uS/cm
MR-AP-MW-11	DO	DO	10/11/2023 10:48	0.62	mg/L
MR-AP-MW-11	DTW	Depth to Water Detail	10/11/2023 10:48	241.92	ft
MR-AP-MW-11	ORP	Oxidation Reduction Potention	10/11/2023 10:48	-50.15	mv
MR-AP-MW-11	PH	pH	10/11/2023 10:48	6.59	SU
MR-AP-MW-11	TEMP	Temperature	10/11/2023 10:48	18.24	C
MR-AP-MW-11	TURB	Turbidity	10/11/2023 10:48	8.35	NTU
MR-AP-MW-11	COND	Conductivity	10/11/2023 10:53	1651.61	uS/cm
MR-AP-MW-11	DO	DO	10/11/2023 10:53	0.89	mg/L
MR-AP-MW-11	DTW	Depth to Water Detail	10/11/2023 10:53	242.16	ft
MR-AP-MW-11	ORP	Oxidation Reduction Potention	10/11/2023 10:53	-50.54	mv
MR-AP-MW-11	PH	pH	10/11/2023 10:53	6.59	SU
MR-AP-MW-11	TEMP	Temperature	10/11/2023 10:53	18.48	C
MR-AP-MW-11	TURB	Turbidity	10/11/2023 10:53	8.14	NTU
MR-AP-MW-11	COND	Conductivity	10/11/2023 10:58	1650.18	uS/cm
MR-AP-MW-11	DO	DO	10/11/2023 10:58	0.84	mg/L
MR-AP-MW-11	DTW	Depth to Water Detail	10/11/2023 10:58	242.25	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-11	ORP	Oxidation Reduction Potention	10/11/2023 10:58	-50.87	mv
MR-AP-MW-11	PH	pH	10/11/2023 10:58	6.59	SU
MR-AP-MW-11	TEMP	Temperature	10/11/2023 10:58	18.62	C
MR-AP-MW-11	TURB	Turbidity	10/11/2023 10:58	8.33	NTU
MR-AP-MW-11	COND	Conductivity	10/11/2023 11:03	1649.17	uS/cm
MR-AP-MW-11	DO	DO	10/11/2023 11:03	0.82	mg/L
MR-AP-MW-11	DTW	Depth to Water Detail	10/11/2023 11:03	242.36	ft
MR-AP-MW-11	ORP	Oxidation Reduction Potention	10/11/2023 11:03	-50.45	mv
MR-AP-MW-11	PH	pH	10/11/2023 11:03	6.59	SU
MR-AP-MW-11	SULFIDE	Sulfide	10/11/2023 11:03	0	mg/L
MR-AP-MW-11	TEMP	Temperature	10/11/2023 11:03	18.59	C
MR-AP-MW-11	TURB	Turbidity	10/11/2023 11:03	8.24	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 9:19	1782.99	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 9:19	0.57	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 9:19	120.35	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 9:19	-228.64	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 9:19	8.25	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 9:19	19.68	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 9:19	2.85	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 9:24	1643.18	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 9:24	0.41	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 9:24	123.87	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 9:24	-283.45	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 9:24	8.29	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 9:24	19.63	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 9:24	2.98	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 9:29	1544.65	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 9:29	0.34	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 9:29	124.68	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 9:29	-288.59	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 9:29	8.22	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 9:29	19.76	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 9:29	3.44	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 9:34	1535.26	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 9:34	0.37	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 9:34	125.71	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 9:34	-290.93	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 9:34	8.15	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 9:34	20.76	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 9:34	2.56	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 9:39	1506.32	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 9:39	0.32	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 9:39	126.98	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 9:39	-286.44	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 9:39	8.01	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 9:39	20.13	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 9:39	2.23	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 9:44	1474.82	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 9:44	0.3	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 9:44	127.96	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 9:44	-294.49	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 9:44	8.06	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 9:44	20.25	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 9:44	2.12	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 9:49	1454.78	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 9:49	0.29	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 9:49	129.04	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 9:49	-291.94	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 9:49	7.93	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 9:49	20.57	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 9:49	2.1	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 9:54	1422.96	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 9:54	0.29	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 9:54	130.09	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 9:54	-298.56	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 9:54	8.01	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 9:54	20.43	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 9:54	1.89	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 9:59	1415.12	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 9:59	0.31	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 9:59	130.46	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 9:59	-300.76	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 9:59	7.99	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 9:59	21.46	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 9:59	2.01	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:04	1400.82	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:04	0.35	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:04	130.88	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:04	-300.85	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:04	7.97	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:04	21.85	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:04	2.18	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:09	1381.18	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:09	0.33	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:09	131.07	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:09	-302.41	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:09	7.97	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:09	22.21	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:09	1.99	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:14	1360.5	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:14	0.33	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:14	131.32	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:14	-302.58	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:14	7.98	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:14	22.01	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:14	1.96	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:19	1361.24	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:19	0.32	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:19	131.49	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:19	-304.57	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:19	8	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:19	22.26	C

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:19	1.9	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:24	1344.51	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:24	0.33	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:24	131.86	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:24	-304.48	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:24	7.99	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:24	21.94	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:24	1.92	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:27	1333.56	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:27	0.31	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:27	132.06	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:27	-307.19	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:27	8.01	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:27	22.13	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:27	1.82	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:32	1320.48	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:32	0.32	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:32	132.3	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:32	-304.77	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:32	7.98	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:32	21.78	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:32	1.76	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:37	1303.6	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:37	0.31	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:37	132.56	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:37	-308.55	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:37	8.03	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:37	21.76	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:37	1.8	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:42	1293.72	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:42	0.42	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:42	132.76	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:42	-304.25	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:42	7.98	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:42	23.16	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:42	1.89	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:47	1598.32	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:47	0.43	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:47	132.84	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:47	-307.06	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:47	8.03	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:47	23.25	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:47	2.75	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:52	1526.37	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:52	0.44	mg/L

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:52	132.88	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:52	-303.02	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:52	7.96	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:52	24	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:52	3.08	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 10:57	1507.64	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 10:57	0.46	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 10:57	132.91	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 10:57	-307.25	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 10:57	8.03	SU
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 10:57	23.78	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 10:57	3.05	NTU
MR-AP-MW-19HA	COND	Conductivity	10/10/2023 11:02	1466.12	uS/cm
MR-AP-MW-19HA	DO	DO	10/10/2023 11:02	0.42	mg/L
MR-AP-MW-19HA	DTW	Depth to Water Detail	10/10/2023 11:02	132.93	ft
MR-AP-MW-19HA	ORP	Oxidation Reduction Potention	10/10/2023 11:02	-303.59	mv
MR-AP-MW-19HA	PH	pH	10/10/2023 11:02	7.94	SU
MR-AP-MW-19HA	SULFIDE	Sulfide	10/10/2023 11:02	8	mg/L
MR-AP-MW-19HA	TEMP	Temperature	10/10/2023 11:02	24.3	C
MR-AP-MW-19HA	TURB	Turbidity	10/10/2023 11:02	2.89	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-22D	COND	Conductivity	10/12/2023 11:16	1503.72	uS/cm
MR-AP-MW-22D	DO	DO	10/12/2023 11:16	0.46	mg/L
MR-AP-MW-22D	DTW	Depth to Water Detail	10/12/2023 11:16	82.11	ft
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	10/12/2023 11:16	-177.49	mv
MR-AP-MW-22D	PH	pH	10/12/2023 11:16	9.88	SU
MR-AP-MW-22D	TEMP	Temperature	10/12/2023 11:16	18.71	C
MR-AP-MW-22D	TURB	Turbidity	10/12/2023 11:16	3.75	NTU
MR-AP-MW-22D	COND	Conductivity	10/12/2023 11:21	1574.9	uS/cm
MR-AP-MW-22D	DO	DO	10/12/2023 11:21	0.38	mg/L
MR-AP-MW-22D	DTW	Depth to Water Detail	10/12/2023 11:21	82.2	ft
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	10/12/2023 11:21	-174.72	mv
MR-AP-MW-22D	PH	pH	10/12/2023 11:21	9.86	SU
MR-AP-MW-22D	TEMP	Temperature	10/12/2023 11:21	18.54	C
MR-AP-MW-22D	TURB	Turbidity	10/12/2023 11:21	3.61	NTU
MR-AP-MW-22D	COND	Conductivity	10/12/2023 11:26	2628.86	uS/cm
MR-AP-MW-22D	DO	DO	10/12/2023 11:26	0.37	mg/L
MR-AP-MW-22D	DTW	Depth to Water Detail	10/12/2023 11:26	82.25	ft
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	10/12/2023 11:26	-170.3	mv
MR-AP-MW-22D	PH	pH	10/12/2023 11:26	9.4	SU
MR-AP-MW-22D	TEMP	Temperature	10/12/2023 11:26	18.66	C
MR-AP-MW-22D	TURB	Turbidity	10/12/2023 11:26	3.64	NTU
MR-AP-MW-22D	COND	Conductivity	10/12/2023 11:31	3482.68	uS/cm
MR-AP-MW-22D	DO	DO	10/12/2023 11:31	0.38	mg/L
MR-AP-MW-22D	DTW	Depth to Water Detail	10/12/2023 11:31	82.32	ft
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	10/12/2023 11:31	-173.71	mv
MR-AP-MW-22D	PH	pH	10/12/2023 11:31	9.01	SU
MR-AP-MW-22D	TEMP	Temperature	10/12/2023 11:31	18.54	C
MR-AP-MW-22D	TURB	Turbidity	10/12/2023 11:31	3.58	NTU
MR-AP-MW-22D	COND	Conductivity	10/12/2023 11:36	3775	uS/cm
MR-AP-MW-22D	DO	DO	10/12/2023 11:36	0.38	mg/L
MR-AP-MW-22D	DTW	Depth to Water Detail	10/12/2023 11:36	82.37	ft
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	10/12/2023 11:36	-181.34	mv
MR-AP-MW-22D	PH	pH	10/12/2023 11:36	8.84	SU
MR-AP-MW-22D	TEMP	Temperature	10/12/2023 11:36	18.59	C
MR-AP-MW-22D	TURB	Turbidity	10/12/2023 11:36	3.54	NTU
MR-AP-MW-22D	COND	Conductivity	10/12/2023 11:41	3870.68	uS/cm
MR-AP-MW-22D	DO	DO	10/12/2023 11:41	0.38	mg/L
MR-AP-MW-22D	DTW	Depth to Water Detail	10/12/2023 11:41	82.41	ft
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	10/12/2023 11:41	-189.05	mv
MR-AP-MW-22D	PH	pH	10/12/2023 11:41	8.79	SU
MR-AP-MW-22D	TEMP	Temperature	10/12/2023 11:41	18.55	C
MR-AP-MW-22D	TURB	Turbidity	10/12/2023 11:41	3.39	NTU
MR-AP-MW-22D	COND	Conductivity	10/12/2023 11:46	3937.27	uS/cm
MR-AP-MW-22D	DO	DO	10/12/2023 11:46	0.36	mg/L
MR-AP-MW-22D	DTW	Depth to Water Detail	10/12/2023 11:46	82.44	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	10/12/2023 11:46	-195.06	mv
MR-AP-MW-22D	PH	pH	10/12/2023 11:46	8.77	SU
MR-AP-MW-22D	TEMP	Temperature	10/12/2023 11:46	18.6	C
MR-AP-MW-22D	TURB	Turbidity	10/12/2023 11:46	3.43	NTU
MR-AP-MW-22D	COND	Conductivity	10/12/2023 11:51	4012.64	uS/cm
MR-AP-MW-22D	DO	DO	10/12/2023 11:51	0.36	mg/L
MR-AP-MW-22D	DTW	Depth to Water Detail	10/12/2023 11:51	82.46	ft
MR-AP-MW-22D	ORP	Oxidation Reduction Potention	10/12/2023 11:51	-197.35	mv
MR-AP-MW-22D	PH	pH	10/12/2023 11:51	8.75	SU
MR-AP-MW-22D	SULFIDE	Sulfide	10/12/2023 11:51	1	mg/L
MR-AP-MW-22D	TEMP	Temperature	10/12/2023 11:51	18.61	C
MR-AP-MW-22D	TURB	Turbidity	10/12/2023 11:51	3.5	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-30H	COND	Conductivity	10/11/2023 8:12	2002.02	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 8:12	0.45	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 8:12	247.68	ft
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 8:12	-90.68	mv
MR-AP-MW-30H	PH	pH	10/11/2023 8:12	6.84	SU
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 8:12	17.64	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 8:12	21.2	NTU
MR-AP-MW-30H	COND	Conductivity	10/11/2023 8:17	1978.53	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 8:17	0.38	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 8:17	249.71	ft
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 8:17	-84.32	mv
MR-AP-MW-30H	PH	pH	10/11/2023 8:17	6.86	SU
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 8:17	17.64	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 8:17	19.1	NTU
MR-AP-MW-30H	COND	Conductivity	10/11/2023 8:22	1951.6	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 8:22	0.38	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 8:22	251.28	ft
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 8:22	-80.02	mv
MR-AP-MW-30H	PH	pH	10/11/2023 8:22	6.86	SU
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 8:22	17.64	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 8:22	11.8	NTU
MR-AP-MW-30H	COND	Conductivity	10/11/2023 8:27	1927.2	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 8:27	0.59	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 8:27	252.97	ft
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 8:27	-77.59	mv
MR-AP-MW-30H	PH	pH	10/11/2023 8:27	6.86	SU
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 8:27	17.64	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 8:27	11.1	NTU
MR-AP-MW-30H	COND	Conductivity	10/11/2023 8:32	1910	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 8:32	0.6	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 8:32	254.95	ft
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 8:32	-75.89	mv
MR-AP-MW-30H	PH	pH	10/11/2023 8:32	6.87	SU
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 8:32	17.64	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 8:32	10.2	NTU
MR-AP-MW-30H	COND	Conductivity	10/11/2023 8:37	1894.22	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 8:37	0.55	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 8:37	256.22	ft
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 8:37	-75.51	mv
MR-AP-MW-30H	PH	pH	10/11/2023 8:37	6.87	SU
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 8:37	17.64	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 8:37	8.22	NTU
MR-AP-MW-30H	COND	Conductivity	10/11/2023 8:42	1885.61	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 8:42	0.5	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 8:42	257.81	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 8:42	-74.55	mv
MR-AP-MW-30H	PH	pH	10/11/2023 8:42	6.85	SU
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 8:42	17.67	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 8:42	9.45	NTU
MR-AP-MW-30H	COND	Conductivity	10/11/2023 8:47	1891.89	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 8:47	0.45	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 8:47	258.02	ft
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 8:47	-75.25	mv
MR-AP-MW-30H	PH	pH	10/11/2023 8:47	6.85	SU
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 8:47	17.95	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 8:47	9.89	NTU
MR-AP-MW-30H	COND	Conductivity	10/11/2023 8:52	1880.66	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 8:52	0.49	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 8:52	258	ft
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 8:52	-74.81	mv
MR-AP-MW-30H	PH	pH	10/11/2023 8:52	6.85	SU
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 8:52	17.97	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 8:52	9.66	NTU
MR-AP-MW-30H	COND	Conductivity	10/11/2023 8:57	1883.96	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 8:57	0.49	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 8:57	258	ft
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 8:57	-74.07	mv
MR-AP-MW-30H	PH	pH	10/11/2023 8:57	6.85	SU
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 8:57	17.99	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 8:57	6.46	NTU
MR-AP-MW-30H	COND	Conductivity	10/11/2023 9:02	1871.61	uS/cm
MR-AP-MW-30H	DO	DO	10/11/2023 9:02	0.56	mg/L
MR-AP-MW-30H	DTW	Depth to Water Detail	10/11/2023 9:02	258	ft
MR-AP-MW-30H	ORP	Oxidation Reduction Potention	10/11/2023 9:02	-73.57	mv
MR-AP-MW-30H	PH	pH	10/11/2023 9:02	6.85	SU
MR-AP-MW-30H	SULFIDE	Sulfide	10/11/2023 9:02	0	mg/L
MR-AP-MW-30H	TEMP	Temperature	10/11/2023 9:02	17.95	C
MR-AP-MW-30H	TURB	Turbidity	10/11/2023 9:02	6.12	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:00	1143.58	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:00	0.76	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:00	239.35	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	10/9/2023 14:00	-56.58	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:00	6.98	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:00	18.99	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:00	30.5	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:05	1138.72	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:05	0.43	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:05	240.45	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	10/9/2023 14:05	-40.48	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:05	6.94	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:05	18.73	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:05	29.9	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:10	1124.83	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:10	0.36	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:10	242.02	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	10/9/2023 14:10	-36	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:10	6.94	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:10	18.48	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:10	26.2	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:15	1112.71	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:15	0.31	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:15	243	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	10/9/2023 14:15	-33.22	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:15	6.95	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:15	18.37	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:15	19.8	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:20	1118.17	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:20	0.47	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:20	243.82	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	10/9/2023 14:20	-31.85	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:20	6.95	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:20	19.53	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:20	14.8	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:25	1105.06	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:25	0.52	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:25	244.07	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	10/9/2023 14:25	-30.49	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:25	6.96	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:25	19.73	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:25	15.3	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:30	1098.78	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:30	0.51	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:30	244.38	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-31H	ORP	Oxidation Reduction Potential	10/9/2023 14:30	-29.31	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:30	6.97	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:30	19.64	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:30	16.2	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:35	1089.21	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:35	0.51	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:35	244.6	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potential	10/9/2023 14:35	-29.37	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:35	6.96	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:35	19.57	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:35	12.4	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:40	1089.1	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:40	0.53	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:40	245.02	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potential	10/9/2023 14:40	-29.5	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:40	6.95	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:40	19.79	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:40	8.32	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:45	1079.62	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:45	0.6	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:45	245.32	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potential	10/9/2023 14:45	-30.74	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:45	6.96	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:45	19.75	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:45	7.98	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:50	1066.5	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:50	0.54	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:50	245.6	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potential	10/9/2023 14:50	-31.65	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:50	6.96	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:50	19.59	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:50	8.12	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 14:55	1058.07	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 14:55	0.49	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 14:55	245.81	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potential	10/9/2023 14:55	-32.85	mv
MR-AP-MW-31H	PH	pH	10/9/2023 14:55	6.95	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 14:55	19.46	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 14:55	10.3	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 15:00	1056.46	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 15:00	0.47	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 15:00	246	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potential	10/9/2023 15:00	-33.88	mv
MR-AP-MW-31H	PH	pH	10/9/2023 15:00	6.95	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 15:00	19.59	C

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 15:00	8.8	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 15:05	1046.69	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 15:05	0.43	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 15:05	246.16	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	10/9/2023 15:05	-34.97	mv
MR-AP-MW-31H	PH	pH	10/9/2023 15:05	6.95	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 15:05	19.49	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 15:05	8.17	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 15:10	1044.84	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 15:10	0.46	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 15:10	246.38	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	10/9/2023 15:10	-36.08	mv
MR-AP-MW-31H	PH	pH	10/9/2023 15:10	6.95	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 15:10	19.77	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 15:10	8.11	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 15:15	1039.75	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 15:15	0.46	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 15:15	246.5	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	10/9/2023 15:15	-36.5	mv
MR-AP-MW-31H	PH	pH	10/9/2023 15:15	6.94	SU
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 15:15	19.75	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 15:15	8.68	NTU
MR-AP-MW-31H	COND	Conductivity	10/9/2023 15:20	1039.61	uS/cm
MR-AP-MW-31H	DO	DO	10/9/2023 15:20	0.46	mg/L
MR-AP-MW-31H	DTW	Depth to Water Detail	10/9/2023 15:20	246.64	ft
MR-AP-MW-31H	ORP	Oxidation Reduction Potention	10/9/2023 15:20	-36.94	mv
MR-AP-MW-31H	PH	pH	10/9/2023 15:20	6.94	SU
MR-AP-MW-31H	SULFIDE	Sulfide	10/9/2023 15:20	0	mg/L
MR-AP-MW-31H	TEMP	Temperature	10/9/2023 15:20	19.87	C
MR-AP-MW-31H	TURB	Turbidity	10/9/2023 15:20	8.44	NTU

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-34H	COND	Conductivity	10/10/2023 12:06	1822.21	uS/cm
MR-AP-MW-34H	DO	DO	10/10/2023 12:06	0.24	mg/L
MR-AP-MW-34H	DTW	Depth to Water Detail	10/10/2023 12:06	155.97	ft
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	10/10/2023 12:06	-296.56	mv
MR-AP-MW-34H	PH	pH	10/10/2023 12:06	8.31	SU
MR-AP-MW-34H	TEMP	Temperature	10/10/2023 12:06	18.35	C
MR-AP-MW-34H	TURB	Turbidity	10/10/2023 12:06	9.21	NTU
MR-AP-MW-34H	COND	Conductivity	10/10/2023 12:09	2047.19	uS/cm
MR-AP-MW-34H	DO	DO	10/10/2023 12:09	0.23	mg/L
MR-AP-MW-34H	DTW	Depth to Water Detail	10/10/2023 12:09	156.71	ft
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	10/10/2023 12:09	-293.08	mv
MR-AP-MW-34H	PH	pH	10/10/2023 12:09	8.27	SU
MR-AP-MW-34H	TEMP	Temperature	10/10/2023 12:09	18.28	C
MR-AP-MW-34H	TURB	Turbidity	10/10/2023 12:09	6.54	NTU
MR-AP-MW-34H	COND	Conductivity	10/10/2023 12:14	2008.61	uS/cm
MR-AP-MW-34H	DO	DO	10/10/2023 12:14	0.17	mg/L
MR-AP-MW-34H	DTW	Depth to Water Detail	10/10/2023 12:14	157.79	ft
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	10/10/2023 12:14	-286.12	mv
MR-AP-MW-34H	PH	pH	10/10/2023 12:14	8.1	SU
MR-AP-MW-34H	TEMP	Temperature	10/10/2023 12:14	18.27	C
MR-AP-MW-34H	TURB	Turbidity	10/10/2023 12:14	4.36	NTU
MR-AP-MW-34H	COND	Conductivity	10/10/2023 12:19	1954.53	uS/cm
MR-AP-MW-34H	DO	DO	10/10/2023 12:19	0.16	mg/L
MR-AP-MW-34H	DTW	Depth to Water Detail	10/10/2023 12:19	158.66	ft
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	10/10/2023 12:19	-282.81	mv
MR-AP-MW-34H	PH	pH	10/10/2023 12:19	7.97	SU
MR-AP-MW-34H	TEMP	Temperature	10/10/2023 12:19	18.09	C
MR-AP-MW-34H	TURB	Turbidity	10/10/2023 12:19	4.05	NTU
MR-AP-MW-34H	COND	Conductivity	10/10/2023 12:24	1913.61	uS/cm
MR-AP-MW-34H	DO	DO	10/10/2023 12:24	0.28	mg/L
MR-AP-MW-34H	DTW	Depth to Water Detail	10/10/2023 12:24	159.26	ft
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	10/10/2023 12:24	-273.4	mv
MR-AP-MW-34H	PH	pH	10/10/2023 12:24	8.01	SU
MR-AP-MW-34H	TEMP	Temperature	10/10/2023 12:24	18.49	C
MR-AP-MW-34H	TURB	Turbidity	10/10/2023 12:24	3.87	NTU
MR-AP-MW-34H	COND	Conductivity	10/10/2023 12:29	1912	uS/cm
MR-AP-MW-34H	DO	DO	10/10/2023 12:29	0.29	mg/L
MR-AP-MW-34H	DTW	Depth to Water Detail	10/10/2023 12:29	159.26	ft
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	10/10/2023 12:29	-286.16	mv
MR-AP-MW-34H	PH	pH	10/10/2023 12:29	7.99	SU
MR-AP-MW-34H	TEMP	Temperature	10/10/2023 12:29	18.81	C
MR-AP-MW-34H	TURB	Turbidity	10/10/2023 12:29	3.96	NTU
MR-AP-MW-34H	COND	Conductivity	10/10/2023 12:34	1901.34	uS/cm
MR-AP-MW-34H	DO	DO	10/10/2023 12:34	0.14	mg/L
MR-AP-MW-34H	DTW	Depth to Water Detail	10/10/2023 12:34	159.26	ft

**Field Parameters
Plant Miller Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
MR-AP-MW-34H	ORP	Oxidation Reduction Potention	10/10/2023 12:34	-290.69	mv
MR-AP-MW-34H	PH	pH	10/10/2023 12:34	8.04	SU
MR-AP-MW-34H	SULFIDE	Sulfide	10/10/2023 12:34	7	mg/L
MR-AP-MW-34H	TEMP	Temperature	10/10/2023 12:34	18.07	C
MR-AP-MW-34H	TURB	Turbidity	10/10/2023 12:34	3.8	NTU

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

Analytical Report



Sample Group : WMWMILAP_1426

Project/Site : Miller Ash Pond
Quinton, AL 35130

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

Attention : Dustin Brooks & Greg Budd

Released By : Brooke Caton
tbwill@southernco.com
(205) 664-6101

November 21, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between September 28, 2023 and October 12, 2023. 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, 2024

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

Sincerely,

Quality Control: **Brooke
Caton**

Digitally signed by Brooke
Caton
Date: 2023.11.21
15:40:15 -06'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske, o=US
United States, ou=US United States
e=tdmaske@southernco.com
Reason: I am the author of this document
Location:
Date: 2023-11-22 08:03:06-00



REPORT OF LABORATORY ANALYSIS

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Case Narrative

Total Metals ICP

Miller Ash Pond

WMWMILAP_1426

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>
BD18198	767641	WMWMILAP_1426
BD18199	767641	WMWMILAP_1426
BD18200	767641	WMWMILAP_1426
BD18201	767641	WMWMILAP_1426
BD18202	767641	WMWMILAP_1426
BD18203	767641	WMWMILAP_1426
BD18204	767641	WMWMILAP_1426
BD18205	767641	WMWMILAP_1426
BD18579	768035	WMWMILAP_1426
BD18580	768035	WMWMILAP_1426
BD18581	768035	WMWMILAP_1426
BD18582	768035	WMWMILAP_1426
BD18583	768035	WMWMILAP_1426
BD18584	768035	WMWMILAP_1426
BD18585	768035	WMWMILAP_1426
BD18586	768035	WMWMILAP_1426
BD18587	768035	WMWMILAP_1426
BD18588	768035	WMWMILAP_1426
BD18589	768036	WMWMILAP_1426
BD18590	768036	WMWMILAP_1426
BD18591	768036	WMWMILAP_1426
BD18592	768036	WMWMILAP_1426
BD18593	768036	WMWMILAP_1426
BD18594	768036	WMWMILAP_1426
BD18595	768036	WMWMILAP_1426
BD18596	768036	WMWMILAP_1426
BD18597	768036	WMWMILAP_1426
BD18598	768036	WMWMILAP_1426
BD18599	768037	WMWMILAP_1426
BD18600	768037	WMWMILAP_1426
BD18601	768037	WMWMILAP_1426
BD18961	768763	WMWMILAP_1426

BD18962	768763	WMWMILAP_1426
BD18963	768763	WMWMILAP_1426
BD18964	768763	WMWMILAP_1426
BD18965	768763	WMWMILAP_1426
BD18966	768763	WMWMILAP_1426
BD18967	768763	WMWMILAP_1426
BD18968	768763	WMWMILAP_1426
BD18969	768763	WMWMILAP_1426
BD18970	768763	WMWMILAP_1426
BD18971	768764	WMWMILAP_1426
BD18972	768764	WMWMILAP_1426
BD18993	768764	WMWMILAP_1426
BD18994	768764	WMWMILAP_1426
BD18995	768764	WMWMILAP_1426
BD18996	768764	WMWMILAP_1426
BD18997	768764	WMWMILAP_1426
BD18998	768764	WMWMILAP_1426
BD18999	768764	WMWMILAP_1426
BD19000	768764	WMWMILAP_1426
BD19001	768765	WMWMILAP_1426
BD19002	768765	WMWMILAP_1426
BD19003	768765	WMWMILAP_1426

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 all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- 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:
 - BD18588 Calcium & Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD18598 Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD18970 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD19000 Calcium, Magnesium, & Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD19003 Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - 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>
BD18198	Calcium, Sodium	10.15
BD18199	Calcium, Iron, Magnesium	10.15
BD18200	Calcium, Iron, Sodium	10.15
BD18201	Calcium	10.15
BD18202	Calcium, Sodium	10.15
BD18203	Calcium, Iron, Mg, Sodium	10.15
BD18204	Calcium, Iron, Magnesium	10.15
BD18579	Calcium, Sodium	10.15
BD18580	Calcium, Fe	10.15
BD18581	Calcium, Magnesium, Sodium	10.15
BD18582	Calcium, Iron, Magnesium, Sodium	10.15
BD18583	Calcium, Iron	10.15
BD18584	Calcium, Iron	10.15
BD18586	Calcium	10.15
BD18587	Calcium, Iron, Magnesium, Sodium	10.15
BD18588	Calcium, Sodium	10.15

Case Narrative

BD18589	Calcium, Sodium	10.15
BD18590	Sodium	10.15
BD18591	Calcium, Sodium	10.15
BD18592	Sodium	10.15
BD18593	Sodium	10.15
BD18594	Calcium, Sodium	10.15
BD18595	Sodium	10.15
BD18596	Calcium, Magnesium	10.15
BD18596	Sodium	101.5
BD18597	Calcium, Magnesium	10.15
BD18597	Sodium	101.5
BD18598	Sodium	10.15
BD18599	Sodium	10.15
BD18600	Calcium, Magnesium, Sodium	10.15
BD18961	Sodium	10.15
BD18962	Calcium, Magnesium	10.15
BD18962	Sodium	101.5
BD18963	Calcium	10.15
BD18964	Calcium	10.15
BD18965	Sodium	10.15
BD18966	Sodium	10.15
BD18968	Calcium	10.15
BD18969	Calcium, Sodium	10.15
BD18970	Calcium	10.15
BD18972	Calcium, Sodium	10.15
BD18993	Calcium, Iron, Sodium	10.15
BD18994	Calcium	10.15
BD18994	Sodium	101.5
BD18995	Calcium, Magnesium, Sodium	10.15
BD18996	Sodium	10.15
BD18997	Sodium	101.5
BD18999	Calcium, Magnesium, Sodium	10.15
BD18999	Iron	101.5
BD19000	Calcium, Magnesium, Sodium	10.15
BD19001	Calcium, Iron, Magnesium, Sodium	10.15
BD19003	Sodium	101.5

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

Case Narrative

Dissolved Metals ICP

Miller Ash Pond

WMWMILAP_1426

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>
BD18198	767621	WMWMILAP_1426
BD18199	767621	WMWMILAP_1426
BD18200	767621	WMWMILAP_1426
BD18201	767621	WMWMILAP_1426
BD18202	767621	WMWMILAP_1426
BD18203	767621	WMWMILAP_1426
BD18204	767621	WMWMILAP_1426
BD18579	767978	WMWMILAP_1426
BD18580	767978	WMWMILAP_1426
BD18581	767978	WMWMILAP_1426
BD18582	767978	WMWMILAP_1426
BD18583	767978	WMWMILAP_1426
BD18584	767978	WMWMILAP_1426
BD18586	767978	WMWMILAP_1426
BD18587	767978	WMWMILAP_1426
BD18588	767978	WMWMILAP_1426
BD18589	767978	WMWMILAP_1426
BD18590	767979	WMWMILAP_1426
BD18591	767979	WMWMILAP_1426
BD18592	767979	WMWMILAP_1426
BD18593	767979	WMWMILAP_1426
BD18594	767979	WMWMILAP_1426
BD18595	767979	WMWMILAP_1426
BD18596	767979	WMWMILAP_1426
BD18597	767979	WMWMILAP_1426
BD18598	767979	WMWMILAP_1426
BD18599	767979	WMWMILAP_1426
BD18600	767980	WMWMILAP_1426
BD18961	768716	WMWMILAP_1426
BD18962	768716	WMWMILAP_1426
BD18963	768716	WMWMILAP_1426
BD18964	768716	WMWMILAP_1426

BD18965	768716	WMWMILAP_1426
BD18966	768716	WMWMILAP_1426
BD18968	768716	WMWMILAP_1426
BD18969	768716	WMWMILAP_1426
BD18970	768716	WMWMILAP_1426
BD18972	768716	WMWMILAP_1426
BD18993	768717	WMWMILAP_1426
BD18994	768717	WMWMILAP_1426
BD18995	768717	WMWMILAP_1426
BD18996	768717	WMWMILAP_1426
BD18997	768717	WMWMILAP_1426
BD18999	768717	WMWMILAP_1426
BD19000	768717	WMWMILAP_1426
BD19001	768717	WMWMILAP_1426
BD19003	768717	WMWMILAP_1426

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 all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- 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.
- 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, except for the following:
 - BD18204 Calcium, Iron, & Magnesium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD18589 Calcium & Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD18599 Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD18600 Calcium, Magnesium, & Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD18972 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD19003 Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were 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>
BD18198	Calcium, Sodium	10.15
BD18199	Calcium, Iron, Magnesium	10.15
BD18200	Calcium, Iron, Sodium	10.15
BD18201	Calcium	10.15
BD18202	Calcium, Sodium	10.15
BD18203	Calcium, Iron, Mg, Sodium	10.15
BD18204	Calcium, Iron, Magnesium	10.15
BD18579	Calcium, Sodium	10.15
BD18580	Calcium, Fe	10.15
BD18581	Calcium, Magnesium, Sodium	10.15
BD18582	Calcium, Iron, Magnesium, Sodium	10.15
BD18583	Calcium, Iron	10.15
BD18584	Calcium, Iron	10.15
BD18586	Calcium	10.15
BD18587	Calcium, Iron, Magnesium, Sodium	10.15
BD18588	Calcium, Sodium	10.15
BD18589	Calcium, Sodium	10.15
BD18590	Sodium	10.15
BD18591	Calcium, Sodium	10.15
BD18592	Sodium	10.15
BD18593	Sodium	10.15

Case Narrative

BD18594	Calcium, Sodium	10.15
BD18595	Sodium	10.15
BD18596	Calcium, Magnesium	10.15
BD18596	Sodium	101.5
BD18597	Calcium, Magnesium	10.15
BD18597	Sodium	101.5
BD18598	Sodium	10.15
BD18599	Sodium	10.15
BD18600	Calcium, Magnesium, Sodium	10.15
BD18961	Sodium	10.15
BD18962	Calcium, Magnesium	10.15
BD18962	Sodium	101.5
BD18963	Calcium	10.15
BD18964	Calcium	10.15
BD18965	Sodium	10.15
BD18966	Sodium	10.15
BD18968	Calcium	10.15
BD18969	Calcium, Sodium	10.15
BD18972	Calcium, Sodium	10.15
BD18993	Calcium, Iron, Sodium	10.15
BD18994	Calcium	10.15
BD18994	Sodium	101.5
BD18995	Calcium, Magnesium, Sodium	10.15
BD18996	Sodium	10.15
BD18997	Sodium	101.5
BD18999	Calcium, Magnesium, Sodium	10.15
BD18999	Iron	101.5
BD19000	Calcium, Magnesium, Sodium	10.15
BD19001	Calcium, Magnesium, Sodium	10.15
BD19003	Sodium	101.5

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

Case Narrative

Total Metals ICPMS

Miller Ash Pond

WMWMILAP_1426

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>
BD18198	768242	WMWMILAP_1426
BD18199	768242	WMWMILAP_1426
BD18200	768242	WMWMILAP_1426
BD18201	768242	WMWMILAP_1426
BD18202	768242	WMWMILAP_1426
BD18203	768242	WMWMILAP_1426
BD18204	768242	WMWMILAP_1426
BD18205	768242	WMWMILAP_1426
BD18579	768862	WMWMILAP_1426
BD18580	768862	WMWMILAP_1426
BD18581	768862	WMWMILAP_1426
BD18582	768862	WMWMILAP_1426
BD18583	768862	WMWMILAP_1426
BD18584	768862	WMWMILAP_1426
BD18585	768862	WMWMILAP_1426
BD18586	768862	WMWMILAP_1426
BD18587	768862	WMWMILAP_1426
BD18588	768862	WMWMILAP_1426
BD18589	768863	WMWMILAP_1426
BD18590	768863, 770868	WMWMILAP_1426
BD18591	768863	WMWMILAP_1426
BD18592	768863	WMWMILAP_1426
BD18593	768863	WMWMILAP_1426
BD18594	768863	WMWMILAP_1426
BD18595	768863	WMWMILAP_1426
BD18596	768863	WMWMILAP_1426
BD18597	768863	WMWMILAP_1426
BD18598	768863	WMWMILAP_1426
BD18599	769075	WMWMILAP_1426
BD18600	769075	WMWMILAP_1426
BD18601	769075	WMWMILAP_1426
BD18961	769352	WMWMILAP_1426

BD18962	769352	WMWMILAP_1426
BD18963	769352	WMWMILAP_1426
BD18964	769352	WMWMILAP_1426
BD18965	769352	WMWMILAP_1426
BD18966	769352	WMWMILAP_1426
BD18967	769352	WMWMILAP_1426
BD18968	769352	WMWMILAP_1426
BD18969	769352	WMWMILAP_1426
BD18970	769352	WMWMILAP_1426
BD18971	769353	WMWMILAP_1426
BD18972	769353	WMWMILAP_1426
BD18993	769353	WMWMILAP_1426
BD18994	769353	WMWMILAP_1426
BD18995	769353	WMWMILAP_1426
BD18996	769353	WMWMILAP_1426
BD18997	769353	WMWMILAP_1426
BD18998	769353	WMWMILAP_1426
BD18999	769353	WMWMILAP_1426
BD19000	769353	WMWMILAP_1426
BD19001	769354, 770870	WMWMILAP_1426
BD19002	769354	WMWMILAP_1426
BD19003	769354	WMWMILAP_1426

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.
- 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, except the following:
 - BD18588 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD18970 Aluminum MS and/or MSD recovery is outside of specification limit.
 - BD19003 Barium MS and/or MSD recovery is outside of specification limit.
 - 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>
BD18199	Manganese	5.075
BD18200	Manganese	5.075
BD18203	Manganese	5.075
BD18580	Manganese	5.075
BD18581	Manganese	5.075
BD18582	Manganese	5.075
BD18588	Manganese	5.075
BD18589	Manganese	5.075
BD18591	Manganese	5.075
BD18596	Barium	92.365
BD18597	Barium	5.075
BD18968	Manganese	5.075
BD18972	Manganese	5.075
BD18999	Manganese	5.075

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

Case Narrative

Dissolved Metals ICPMS

Miller Ash Pond

WMWMILAP_1426

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>
BD18198	768215	WMWMILAP_1426
BD18199	768215	WMWMILAP_1426
BD18200	768215	WMWMILAP_1426
BD18201	768215	WMWMILAP_1426
BD18202	768215	WMWMILAP_1426
BD18203	768215	WMWMILAP_1426
BD18204	768215	WMWMILAP_1426
BD18579	768631	WMWMILAP_1426
BD18580	768631	WMWMILAP_1426
BD18581	768631	WMWMILAP_1426
BD18582	768631	WMWMILAP_1426
BD18583	768631	WMWMILAP_1426
BD18584	768631	WMWMILAP_1426
BD18586	768631	WMWMILAP_1426
BD18587	768631	WMWMILAP_1426
BD18588	768631	WMWMILAP_1426
BD18589	768631	WMWMILAP_1426
BD18590	768632, 770863	WMWMILAP_1426
BD18591	768632	WMWMILAP_1426
BD18592	768632	WMWMILAP_1426
BD18593	768632	WMWMILAP_1426
BD18594	768632	WMWMILAP_1426
BD18595	768632	WMWMILAP_1426
BD18596	768632	WMWMILAP_1426
BD18597	768632	WMWMILAP_1426
BD18598	768632	WMWMILAP_1426
BD18599	768632	WMWMILAP_1426
BD18600	768633	WMWMILAP_1426
BD18961	769355	WMWMILAP_1426
BD18962	769355	WMWMILAP_1426
BD18963	769355	WMWMILAP_1426
BD18964	769355	WMWMILAP_1426

BD18965	769355	WMWMILAP_1426
BD18966	769355	WMWMILAP_1426
BD18968	769355	WMWMILAP_1426
BD18969	769355	WMWMILAP_1426
BD18970	769355	WMWMILAP_1426
BD18972	769355	WMWMILAP_1426
BD18993	769356	WMWMILAP_1426
BD18994	769356	WMWMILAP_1426
BD18995	769356	WMWMILAP_1426
BD18996	769356, 770863	WMWMILAP_1426
BD18997	769356, 770863	WMWMILAP_1426
BD18999	769356	WMWMILAP_1426
BD19000	769356	WMWMILAP_1426
BD19001	769356, 770865	WMWMILAP_1426
BD19003	769356	WMWMILAP_1426

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.
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General Quality Control Procedures:

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- 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.
- 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, except for the following:
 - BD18589 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were 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>
BD18199	Manganese	5.075
BD18200	Manganese	5.075
BD18203	Manganese	5.075
BD18580	Manganese	5.075
BD18581	Manganese	5.075
BD18582	Manganese	5.075
BD18588	Manganese	5.075
BD18589	Manganese	5.075
BD18591	Manganese	5.075
BD18596	Barium	92.365
BD18597	Barium	5.075
BD18968	Manganese	5.075
BD18972	Manganese	5.075
BD18999	Manganese	5.075

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

Case Narrative

Mercury

Miller Ash Pond

WMWMILAP_1426

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>
BD18198	767710	WMWMILAP_1426
BD18199	767710	WMWMILAP_1426
BD18200	767710	WMWMILAP_1426
BD18201	767710	WMWMILAP_1426
BD18202	767710	WMWMILAP_1426
BD18203	767710	WMWMILAP_1426
BD18204	767710	WMWMILAP_1426
BD18205	767710	WMWMILAP_1426
BD18579	767965	WMWMILAP_1426
BD18580	767965	WMWMILAP_1426
BD18581	767965	WMWMILAP_1426
BD18582	767965	WMWMILAP_1426
BD18583	767965	WMWMILAP_1426
BD18584	767965	WMWMILAP_1426
BD18585	767965	WMWMILAP_1426
BD18586	767965	WMWMILAP_1426
BD18587	767965	WMWMILAP_1426
BD18588	767965	WMWMILAP_1426
BD18589	767966	WMWMILAP_1426
BD18590	767966	WMWMILAP_1426
BD18591	767966	WMWMILAP_1426
BD18592	767966	WMWMILAP_1426
BD18593	767966	WMWMILAP_1426
BD18594	767966	WMWMILAP_1426
BD18595	767966	WMWMILAP_1426
BD18596	767966	WMWMILAP_1426
BD18597	767966	WMWMILAP_1426
BD18598	767966	WMWMILAP_1426
BD18599	767967	WMWMILAP_1426
BD18600	767967	WMWMILAP_1426
BD18601	767967	WMWMILAP_1426
BD18961	768503	WMWMILAP_1426

BD18962	768503	WMWMILAP_1426
BD18963	768503	WMWMILAP_1426
BD18964	768503	WMWMILAP_1426
BD18965	768503	WMWMILAP_1426
BD18966	768503	WMWMILAP_1426
BD18967	768503	WMWMILAP_1426
BD18968	768503	WMWMILAP_1426
BD18969	768503	WMWMILAP_1426
BD18970	768503	WMWMILAP_1426
BD18971	768504	WMWMILAP_1426
BD18972	768504	WMWMILAP_1426
BD18993	768504	WMWMILAP_1426
BD18994	768504	WMWMILAP_1426
BD18995	768504	WMWMILAP_1426
BD18996	768504	WMWMILAP_1426
BD18997	768504	WMWMILAP_1426
BD18998	768504	WMWMILAP_1426
BD18999	768504	WMWMILAP_1426
BD19000	768504	WMWMILAP_1426
BD19001	769156	WMWMILAP_1426
BD19002	769156	WMWMILAP_1426
BD19003	769156	WMWMILAP_1426

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.
- 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 analytical batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

Case Narrative

Total Dissolved Solids

Miller Ash Pond

WMWMILAP_1426

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>
BD18198	767632	WMWMILAP_1426
BD18199	767632	WMWMILAP_1426
BD18200	767632	WMWMILAP_1426
BD18201	767632	WMWMILAP_1426
BD18202	767632	WMWMILAP_1426
BD18203	767632	WMWMILAP_1426
BD18204	767632	WMWMILAP_1426
BD18205	767632	WMWMILAP_1426
BD18579	767970	WMWMILAP_1426
BD18580	767970	WMWMILAP_1426
BD18581	767970	WMWMILAP_1426
BD18582	767970	WMWMILAP_1426
BD18583	767971	WMWMILAP_1426
BD18584	767971	WMWMILAP_1426
BD18585	767971	WMWMILAP_1426
BD18586	767971	WMWMILAP_1426
BD18587	767971	WMWMILAP_1426
BD18588	767971	WMWMILAP_1426
BD18589	767971	WMWMILAP_1426
BD18590	767971	WMWMILAP_1426
BD18591	767971	WMWMILAP_1426
BD18592	767971	WMWMILAP_1426
BD18593	767972	WMWMILAP_1426
BD18594	767972	WMWMILAP_1426
BD18595	767972	WMWMILAP_1426
BD18596	767972	WMWMILAP_1426
BD18597	767972	WMWMILAP_1426
BD18598	767972	WMWMILAP_1426
BD18599	767972	WMWMILAP_1426
BD18600	767972	WMWMILAP_1426
BD18601	767972	WMWMILAP_1426
BD18961	768486	WMWMILAP_1426

BD18962	768486	WMWMILAP_1426
BD18963	768486	WMWMILAP_1426
BD18964	768486	WMWMILAP_1426
BD18965	768486	WMWMILAP_1426
BD18966	768486	WMWMILAP_1426
BD18967	768487	WMWMILAP_1426
BD18968	768486	WMWMILAP_1426
BD18969	768487	WMWMILAP_1426
BD18970	768487	WMWMILAP_1426
BD18971	768487	WMWMILAP_1426
BD18972	768487	WMWMILAP_1426
BD18993	768524	WMWMILAP_1426
BD18994	768524	WMWMILAP_1426
BD18995	768524	WMWMILAP_1426
BD18996	768524	WMWMILAP_1426
BD18997	768524	WMWMILAP_1426
BD18998	768524	WMWMILAP_1426
BD18999	768524	WMWMILAP_1426
BD19000	768524	WMWMILAP_1426
BD19001	768524	WMWMILAP_1426
BD19002	768524	WMWMILAP_1426
BD19003	768525	WMWMILAP_1426

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, and RPD was $\leq 10\%$.
- 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 $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BD18205
 - BD18585
 - BD18601
 - BD18967
 - BD18971
 - BD18998
 - BD19002

Case Narrative

Alkalinity

Miller Ash Pond

WMWMILAP_1426

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>
BD18198	768193, 768194, 768195, 768196	WMWMILAP_1426
BD18199	768193, 768194, 768195, 768196	WMWMILAP_1426
BD18200	768193, 768194, 768195, 768196	WMWMILAP_1426
BD18201	768193, 768194, 768195, 768196	WMWMILAP_1426
BD18202	768193, 768194, 768195, 768196	WMWMILAP_1426
BD18203	768193, 768194, 768195, 768196	WMWMILAP_1426
BD18204	768193, 768194, 768195, 768196	WMWMILAP_1426
BD18579	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18580	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18581	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18582	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18583	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18584	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18586	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18587	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18588	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18589	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18590	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18591	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18592	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18593	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18594	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18595	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18596	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18597	768673, 768674, 768675, 768676	WMWMILAP_1426
BD18598	768799, 768800, 768801, 768802	WMWMILAP_1426
BD18599	768799, 768800, 768801, 768802	WMWMILAP_1426
BD18600	768799, 768800, 768801, 768802	WMWMILAP_1426
BD18961	768799, 768800, 768801, 768802	WMWMILAP_1426
BD18962	768799, 768800, 768801, 768802	WMWMILAP_1426
BD18963	768799, 768800, 768801, 768802	WMWMILAP_1426
BD18964	768799, 768800, 768801, 768802	WMWMILAP_1426

BD18965	768799, 768800, 768801, 768802	WMWMILAP_1426
BD18966	768799, 768800, 768801, 768802	WMWMILAP_1426
BD18968	768799, 768800, 768801, 768802	WMWMILAP_1426
BD18969	768799, 768800, 768801, 768802	WMWMILAP_1426
BD18970	769456, 769457, 769458, 769459	WMWMILAP_1426
BD18972	769456, 769457, 769458, 769459	WMWMILAP_1426
BD18993	769456, 769457, 769458, 769459	WMWMILAP_1426
BD18994	769456, 769457, 769458, 769459	WMWMILAP_1426
BD18995	769456, 769457, 769458, 769459	WMWMILAP_1426
BD18996	769456, 769457, 769458, 769459	WMWMILAP_1426
BD18997	769456, 769457, 769458, 769459	WMWMILAP_1426
BD18999	769456, 769457, 769458, 769459	WMWMILAP_1426
BD19000	769456, 769457, 769458, 769459	WMWMILAP_1426
BD19001	769456, 769457, 769458, 769459	WMWMILAP_1426
BD19003	769456, 769457, 769458, 769459	WMWMILAP_1426

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
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:

- 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.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
 - BD18198
 - BD18199
 - BD18200
 - BD18203
 - BD18204
 - BD18580
 - BD18581
 - BD18582
 - BD18587
 - BD18588
 - BD18589
 - BD18590
 - BD18591

Case Narrative

- BD18592
- BD18593
- BD18594
- BD18595
- BD18596
- BD18597
- BD18598
- BD18599
- BD18600
- BD18962
- BD18965
- BD18966
- BD18968
- BD18972
- BD18993
- BD18994
- BD18995
- BD18996
- BD18997
- BD18999
- BD19000
- BD19001
- BD19003

Case Narrative

Anions

Miller Ash Pond

WMWMILAP_1426

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>
BD18198	767848, 767849, 768480	WMWMILAP_1426
BD18199	767848, 767849, 768480	WMWMILAP_1426
BD18200	767848, 767849, 768480	WMWMILAP_1426
BD18201	767848, 767849, 768480	WMWMILAP_1426
BD18202	767848, 767849, 768480	WMWMILAP_1426
BD18203	767848, 767849, 768480	WMWMILAP_1426
BD18204	767848, 767849, 768480	WMWMILAP_1426
BD18205	767848, 767849, 768480	WMWMILAP_1426
BD18579	768094, 768114, 768481	WMWMILAP_1426
BD18580	768094, 768114, 768481	WMWMILAP_1426
BD18581	768094, 768114, 768481	WMWMILAP_1426
BD18582	768094, 768114, 768481	WMWMILAP_1426
BD18583	768094, 768114, 768481	WMWMILAP_1426
BD18584	768094, 768114, 768481	WMWMILAP_1426
BD18585	768094, 768114, 768481	WMWMILAP_1426
BD18586	768094, 768114, 768481	WMWMILAP_1426
BD18587	768094, 768114, 768481	WMWMILAP_1426
BD18588	768094, 768114, 768481	WMWMILAP_1426
BD18589	768095, 768115, 768482	WMWMILAP_1426
BD18590	768095, 768115, 768482	WMWMILAP_1426
BD18591	768095, 768115, 768482	WMWMILAP_1426
BD18592	768095, 768115, 768482	WMWMILAP_1426
BD18593	768095, 768115, 768482	WMWMILAP_1426
BD18594	768095, 768115, 768482	WMWMILAP_1426
BD18595	768095, 768115, 768482	WMWMILAP_1426
BD18596	768095, 768115, 768482	WMWMILAP_1426
BD18597	768095, 768115, 768482	WMWMILAP_1426
BD18598	768095, 768115, 768482	WMWMILAP_1426
BD18599	768096, 768116, 768483	WMWMILAP_1426
BD18600	768096, 768116, 768483	WMWMILAP_1426
BD18601	768096, 768116, 768483	WMWMILAP_1426

BD18961	769158, 769161, 768483	WMWMILAP_1426
BD18962	769158, 769161, 768483	WMWMILAP_1426
BD18963	769158, 769161, 768483	WMWMILAP_1426
BD18964	769158, 769161, 768483	WMWMILAP_1426
BD18965	769158, 769161, 768483	WMWMILAP_1426
BD18966	769158, 769161, 768483	WMWMILAP_1426
BD18967	769158, 769161, 768483	WMWMILAP_1426
BD18968	769158, 769161, 768484	WMWMILAP_1426
BD18969	769158, 769161, 768484	WMWMILAP_1426
BD18970	769159, 769162, 768484	WMWMILAP_1426
BD18971	769159, 769162, 768484	WMWMILAP_1426
BD18972	769159, 769162, 768484	WMWMILAP_1426
BD18993	769159, 769162, 770023	WMWMILAP_1426
BD18994	769159, 769162, 770023	WMWMILAP_1426
BD18995	769159, 769162, 770023	WMWMILAP_1426
BD18996	769159, 769162, 770023	WMWMILAP_1426
BD18997	769159, 769162, 770023	WMWMILAP_1426
BD18998	769159, 769162, 770023	WMWMILAP_1426
BD18999	769159, 769162, 770023	WMWMILAP_1426
BD19000	769160, 769163, 770023	WMWMILAP_1426
BD19001	769160, 769163, 770023	WMWMILAP_1426
BD19002	769160, 769163, 770025	WMWMILAP_1426
BD19003	769160, 769163, 770025	WMWMILAP_1426

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) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half 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.
- 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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each 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>
BD18198	Chloride, Sulfate	8, 16
BD18199	Sulfate	40
BD18200	Sulfate	32
BD18201	Sulfate	8
BD18202	Sulfate	3
BD18203	Sulfate	40
BD18204	Sulfate	32
BD18579	Sulfate	3
BD18580	Chloride, Sulfate	2, 25
BD18581	Chloride, Sulfate	3, 25
BD18582	Chloride, Sulfate	2, 16
BD18583	Chloride, Sulfate	2, 10
BD18584	Chloride, Sulfate	2, 10
BD18587	Chloride, Sulfate	2, 40
BD18588	Chloride, Sulfate	3, 40
BD18589	Chloride, Sulfate	2, 32
BD18590	Chloride	2
BD18591	Chloride, Sulfate	10, 32
BD18592	Sulfate	32
BD18593	Chloride, Sulfate	8, 8
BD18594	Sulfate	16
BD18595	Sulfate	10
BD18596	Chloride	160
BD18597	Chloride, Sulfate	160, 3
BD18598	Chloride	10
BD18599	Chloride	8
BD18600	Chloride, Sulfate	16, 10
BD18962	Sulfate	50

Case Narrative

BD18963	Sulfate	10
BD18964	Sulfate	10
BD18965	Sulfate	3
BD18966	Sulfate	3
BD18968	Chloride, Sulfate	2, 32
BD18969	Sulfate	8
BD18970	Sulfate	3
BD18972	Sulfate	40
BD18993	Sulfate	32
BD18994	Chloride, Sulfate	50, 40
BD18995	Sulfate	25
BD18996	Chloride, Sulfate	25, 4
BD18997	Chloride, Sulfate	25, 10
BD18999	Sulfate	80
BD19000	Chloride, Sulfate	4, 40
BD19001	Sulfate	50
BD19003	Chloride, Sulfate	80, 16

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

Case Narrative

Nitrate-Nitrite

Miller Ash Pond

WMWMILAP_1426

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>
BD18198	767880	WMWMILAP_1426
BD18199	767880	WMWMILAP_1426
BD18200	767880	WMWMILAP_1426
BD18201	767880	WMWMILAP_1426
BD18202	767880	WMWMILAP_1426
BD18203	767880	WMWMILAP_1426
BD18204	767880	WMWMILAP_1426
BD18205	767880	WMWMILAP_1426
BD18579	768351	WMWMILAP_1426
BD18580	768351	WMWMILAP_1426
BD18581	768351	WMWMILAP_1426
BD18582	768352	WMWMILAP_1426
BD18583	768352	WMWMILAP_1426
BD18584	768352	WMWMILAP_1426
BD18585	768352	WMWMILAP_1426
BD18586	768352	WMWMILAP_1426
BD18587	768352	WMWMILAP_1426
BD18588	768352	WMWMILAP_1426
BD18589	768352	WMWMILAP_1426
BD18590	768352	WMWMILAP_1426
BD18591	768352	WMWMILAP_1426
BD18593	768353	WMWMILAP_1426
BD18594	768353	WMWMILAP_1426
BD18595	768353	WMWMILAP_1426
BD18596	768353	WMWMILAP_1426
BD18597	768353	WMWMILAP_1426
BD18598	768353	WMWMILAP_1426
BD18599	768353	WMWMILAP_1426
BD18600	768353	WMWMILAP_1426
BD18601	768353	WMWMILAP_1426
BD18961	769186	WMWMILAP_1426

BD18962	769186	WMWMILAP_1426
BD18963	769186	WMWMILAP_1426
BD18964	769186	WMWMILAP_1426
BD18965	769186	WMWMILAP_1426
BD18966	769186	WMWMILAP_1426
BD18967	769186	WMWMILAP_1426
BD18968	769186	WMWMILAP_1426
BD18969	769186	WMWMILAP_1426
BD18970	769186	WMWMILAP_1426
BD18971	769187	WMWMILAP_1426
BD18972	769187	WMWMILAP_1426
BD18973	769187	WMWMILAP_1426
BD18993	769187	WMWMILAP_1426
BD18994	769187	WMWMILAP_1426
BD18995	769187	WMWMILAP_1426
BD18996	769187	WMWMILAP_1426
BD18997	769187	WMWMILAP_1426
BD18998	769187	WMWMILAP_1426
BD18999	769187	WMWMILAP_1426
BD19000	769188	WMWMILAP_1426
BD19001	769188	WMWMILAP_1426
BD19002	769188	WMWMILAP_1426
BD19003	769188	WMWMILAP_1426

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
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:

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

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:

Case Narrative

- A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met, except for the following:
 - BD18999 MS and/or MSD recovery is outside of specification limit.
7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Case Narrative

Total Organic Carbon

Miller Ash Pond

WMWMILAP_1426

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>
BD18198	767735	WMWMILAP_1426
BD18199	767735	WMWMILAP_1426
BD18200	767735	WMWMILAP_1426
BD18201	767735	WMWMILAP_1426
BD18202	767735	WMWMILAP_1426
BD18203	767735	WMWMILAP_1426
BD18204	767735	WMWMILAP_1426
BD18205	767735	WMWMILAP_1426
BD18579	768146	WMWMILAP_1426
BD18580	768146	WMWMILAP_1426
BD18581	768146	WMWMILAP_1426
BD18582	768146	WMWMILAP_1426
BD18583	768146	WMWMILAP_1426
BD18584	768147	WMWMILAP_1426
BD18585	768147	WMWMILAP_1426
BD18586	768147	WMWMILAP_1426
BD18587	768147	WMWMILAP_1426
BD18588	768147	WMWMILAP_1426
BD18589	768147	WMWMILAP_1426
BD18590	768147	WMWMILAP_1426
BD18591	768147	WMWMILAP_1426
BD18593	768147	WMWMILAP_1426
BD18594	768148	WMWMILAP_1426
BD18595	768148	WMWMILAP_1426
BD18596	768148	WMWMILAP_1426
BD18597	768148	WMWMILAP_1426
BD18598	768148	WMWMILAP_1426
BD18599	768148	WMWMILAP_1426
BD18600	768148	WMWMILAP_1426
BD18601	768148	WMWMILAP_1426
BD18961	768498	WMWMILAP_1426
BD18962	768498	WMWMILAP_1426

BD18963	768498	WMWMILAP_1426
BD18964	768498	WMWMILAP_1426
BD18965	768498	WMWMILAP_1426
BD18966	768498	WMWMILAP_1426
BD18967	768498	WMWMILAP_1426
BD18968	768498	WMWMILAP_1426
BD18969	768498	WMWMILAP_1426
BD18970	768499	WMWMILAP_1426
BD18971	768499	WMWMILAP_1426
BD18972	768499	WMWMILAP_1426
BD18973	768499	WMWMILAP_1426
BD18993	768499	WMWMILAP_1426
BD18994	768499	WMWMILAP_1426
BD18995	768499	WMWMILAP_1426
BD18996	768499	WMWMILAP_1426
BD18997	768499	WMWMILAP_1426
BD18998	768499	WMWMILAP_1426
BD18999	768500	WMWMILAP_1426
BD19000	768500	WMWMILAP_1426
BD19001	768500	WMWMILAP_1426
BD19002	768500	WMWMILAP_1426
BD19003	768500	WMWMILAP_1426

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
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 criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met, expect the following:
 - BD18997 MS and/or MSD recovery is outside of specification limit.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

Case Narrative

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

Certificate Of Analysis

Description: Miller Ash Pond - MW-13DR

Location Code: WMWMILAP
Collected: 9/26/23 11:25
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18198

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/3/23 07:45	10/3/23 16:19		1.015	0.0590	mg/L	0.030000	0.1015	J
* Calcium, Total	10/3/23 07:45	10/4/23 15:23		10.15	83.5	mg/L	0.70035	4.06	
* Iron, Total	10/3/23 07:45	10/3/23 16:19		1.015	0.209	mg/L	0.008120	0.0406	
* Lithium, Total	10/3/23 07:45	10/3/23 16:19		1.015	0.0435	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/3/23 07:45	10/3/23 16:19		1.015	33.1	mg/L	0.021315	0.406	
* Molybdenum, Total	10/3/23 07:45	10/3/23 16:19		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/3/23 07:45	10/3/23 16:19		1	22.3	mg/L			
* Silicon, Total	10/3/23 07:45	10/3/23 16:19		1.015	10.4	mg/L	0.02030	0.25375	
* Sodium, Total	10/3/23 07:45	10/4/23 15:23		10.15	119	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	9/28/23 15:32	9/28/23 16:13		1.015	0.0600	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	9/28/23 15:32	9/28/23 16:59		10.15	85.8	mg/L	0.70035	4.06	
* Iron, Dissolved	9/28/23 15:32	9/28/23 16:13		1.015	0.198	mg/L	0.008120	0.0406	
* Lithium, Dissolved	9/28/23 15:32	9/28/23 16:13		1.015	0.0436	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	9/28/23 15:32	9/28/23 16:13		1.015	33.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	9/28/23 15:32	10/3/23 12:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	9/28/23 15:32	9/28/23 16:13		1	22.0	mg/L			
* Silicon, Dissolved	9/28/23 15:32	9/28/23 16:13		1.015	10.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	9/28/23 15:32	9/28/23 16:59		10.15	127	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/3/23 07:45	10/3/23 12:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/3/23 07:45	10/3/23 12:02		1.015	0.000510	mg/L	0.000112	0.000203	
* Aluminum, Total	10/3/23 07:45	10/3/23 12:02		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/3/23 07:45	10/3/23 12:02		1.015	0.0562	mg/L	0.000508	0.001015	
* Beryllium, Total	10/3/23 07:45	10/3/23 12:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/3/23 07:45	10/3/23 12:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/3/23 07:45	10/3/23 12:02		1.015	0.000263	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/3/23 07:45	10/3/23 12:02		1.015	0.00101	mg/L	0.000068	0.000203	
* Lead, Total	10/3/23 07:45	10/3/23 12:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/3/23 07:45	10/3/23 12:02		1.015	0.114	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13DR

Location Code: WMWMILAP
Collected: 9/26/23 11:25
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18198

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/3/23 07:45	10/3/23 12:02		1.015	2.33	mg/L	0.169505	0.5075	
* Selenium, Total	10/3/23 07:45	10/3/23 12:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/3/23 07:45	10/3/23 12:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	0.000434	mg/L	0.000112	0.000203	
* Barium, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	0.0536	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	0.00110	mg/L	0.000068	0.000203	
* Lead, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	0.129	mg/L	0.000152	0.001015	
* Potassium, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	2.32	mg/L	0.169505	0.5075	
* Selenium, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	9/28/23 15:32	10/2/23 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/2/23 18:30	10/2/23 23:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/4/23 09:41	10/4/23 09:41		1	0.298	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/6/23 14:13	10/6/23 15:00		1	4.48	SU		2	
* Alkalinity	10/6/23 14:13	10/6/23 15:00		1	202	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/28/23 13:45	10/2/23 13:25		1	724	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	202	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/3/23 11:10	10/3/23 11:10		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13DR

Location Code: WMWMILAP
Collected: 9/26/23 11:25
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18198

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/3/23 12:20	10/3/23 12:20		8	108	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/3/23 14:19	10/3/23 14:19		1	0.221	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 09:38	10/12/23 09:38		16	217	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/26/23 11:20	9/26/23 11:20			1110.02	uS/cm			FA
pH	9/26/23 11:20	9/26/23 11:20			7.08	SU			FA
Temperature	9/26/23 11:20	9/26/23 11:20			21.49	C			FA
Turbidity	9/26/23 11:20	9/26/23 11:20			0.49	NTU			FA
Sulfide	9/26/23 11:20	9/26/23 11:20			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/26/23 11:25
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-13DR

Laboratory ID Number: BD18198

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Aluminum, Dissolved	mg/L	-0.00120	0.0198	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18198	Aluminum, Total	mg/L	0.000657	0.0198	0.100	0.112	0.111	0.101	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD18204	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0968	0.0959	0.0948	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0
BD18198	Antimony, Total	mg/L	0.000255	0.00100	0.100	0.0999	0.0997	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BD18204	Arsenic, Dissolved	mg/L	0.0000048	0.000200	0.100	0.104	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD18198	Arsenic, Total	mg/L	0.0000182	0.000200	0.100	0.101	0.102	0.101	0.0850 to 0.115	100	70.0 to 130	0.985	20.0
BD18204	Barium, Dissolved	mg/L	-0.0000054	0.00100	0.100	0.116	0.119	0.0993	0.0850 to 0.115	96.1	70.0 to 130	2.55	20.0
BD18198	Barium, Total	mg/L	0.0000074	0.00100	0.100	0.158	0.157	0.102	0.0850 to 0.115	102	70.0 to 130	0.635	20.0
BD18204	Beryllium, Dissolved	mg/L	0.0000100	0.000880	0.100	0.0917	0.0966	0.0902	0.0850 to 0.115	91.7	70.0 to 130	5.20	20.0
BD18198	Beryllium, Total	mg/L	0.0000533	0.000880	0.100	0.0958	0.0947	0.0953	0.0850 to 0.115	95.8	70.0 to 130	1.15	20.0
BD18204	Boron, Dissolved	mg/L	-0.000238	0.0650	1.00	1.15	1.15	1.00	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18205	Boron, Total	mg/L	0.000788	0.0650	1.00	0.985	0.981	0.991	0.850 to 1.15	98.5	70.0 to 130	0.407	20.0
BD18204	Cadmium, Dissolved	mg/L	0.0000056	0.000147	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18198	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0985	0.0964	0.101	0.0850 to 0.115	98.5	70.0 to 130	2.15	20.0
BD18204	Calcium, Dissolved	mg/L	-0.0186	0.152	5.00	120	125	4.93	4.25 to 5.75	-100	70.0 to 130	4.08	20.0
BD18205	Calcium, Total	mg/L	-0.00156	0.152	5.00	4.91	4.90	4.92	4.25 to 5.75	98.2	70.0 to 130	0.204	20.0
BD18205	Chloride	mg/L	-0.00228	1.00	10.0	10.2	10.1	10.2	9.00 to 11.0	102	80.0 to 120	0.985	20.0
BD18204	Chromium, Dissolved	mg/L	-0.0000879	0.000440	0.100	0.0975	0.0952	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.39	20.0
BD18198	Chromium, Total	mg/L	-0.0000508	0.000440	0.100	0.0976	0.0974	0.103	0.0850 to 0.115	97.3	70.0 to 130	0.205	20.0
BD18204	Cobalt, Dissolved	mg/L	-0.0000371	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD18198	Cobalt, Total	mg/L	-0.0000052	0.000147	0.100	0.0984	0.0993	0.104	0.0850 to 0.115	97.4	70.0 to 130	0.910	20.0
BD18205	Fluoride	mg/L	0.0658	0.125	2.50	2.52	2.61	2.50	2.25 to 2.75	101	80.0 to 120	3.51	20.0
BD18204	Iron, Dissolved	mg/L	0.00183	0.0176	0.2	5.44	5.52	0.201	0.170 to 0.230	-95.0	70.0 to 130	1.46	20.0
BD18205	Iron, Total	mg/L	-0.000895	0.0176	0.2	0.201	0.200	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/26/23 11:25
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-13DR

Laboratory ID Number: BD18198

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Lead, Dissolved	mg/L	0.0000059	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0982	0.0992	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.01	20.0
BD18204	Lithium, Dissolved	mg/L	0.000119	0.0154	0.200	0.255	0.255	0.202	0.170 to 0.230	107	70.0 to 130	0.00	20.0
BD18205	Lithium, Total	mg/L	0.000895	0.0154	0.200	0.195	0.199	0.201	0.170 to 0.230	97.5	70.0 to 130	2.03	20.0
BD18204	Magnesium, Dissolved	mg/L	-0.00851	0.0462	5.00	66.1	68.6	5.07	4.25 to 5.75	0.00	70.0 to 130	3.71	20.0
BD18205	Magnesium, Total	mg/L	-0.0173	0.0462	5.00	4.92	4.95	4.96	4.25 to 5.75	98.4	70.0 to 130	0.608	20.0
BD18204	Manganese, Dissolved	mg/L	0.0000102	0.00033	0.100	0.629	0.618	0.104	0.0850 to 0.115	91.0	70.0 to 130	1.76	20.0
BD18198	Manganese, Total	mg/L	-0.0000016	0.00033	0.100	0.209	0.210	0.103	0.0850 to 0.115	95.0	70.0 to 130	0.477	20.0
BD18205	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00402	0.00404	0.00404	0.00340 to 0.00460	100	70.0 to 130	0.496	20.0
BD18204	Molybdenum, Dissolved	mg/L	-0.000237	0.0100	0.2	0.206	0.207	0.204	0.170 to 0.230	103	70.0 to 130	0.484	20.0
BD18205	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD18204	Potassium, Dissolved	mg/L	-0.00514	0.367	10.0	11.9	11.7	10.4	8.50 to 11.5	99.8	70.0 to 130	1.69	20.0
BD18198	Potassium, Total	mg/L	0.0000647	0.367	10.0	11.9	12.1	10.0	8.50 to 11.5	95.7	70.0 to 130	1.67	20.0
BD18204	Selenium, Dissolved	mg/L	0.0000156	0.00100	0.100	0.0988	0.0978	0.101	0.0850 to 0.115	98.8	70.0 to 130	1.02	20.0
BD18198	Selenium, Total	mg/L	0.0000709	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD18204	Silicon, Dissolved	mg/L	-0.000670	0.0440	1.00	13.6	13.7	1.03	0.850 to 1.15	90.0	70.0 to 130	0.733	20.0
BD18205	Silicon, Total	mg/L	0.000603	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD18204	Sodium, Dissolved	mg/L	0.00589	0.0880	5.00	36.9	36.8	4.97	4.25 to 5.75	108	70.0 to 130	0.271	20.0
BD18205	Sodium, Total	mg/L	0.00466	0.0880	5.00	4.84	4.90	4.92	4.25 to 5.75	96.8	70.0 to 130	1.23	20.0
BD18205	Sulfate	mg/L	-0.232	2.0	20.0	19.8	19.3	19.3	18.0 to 22.0	99.0	80.0 to 120	2.56	20.0
BD18204	Thallium, Dissolved	mg/L	-0.0000297	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Thallium, Total	mg/L	0.0000045	0.000147	0.100	0.0997	0.101	0.102	0.0850 to 0.115	99.7	70.0 to 130	1.30	20.0
BD18204	Total Organic Carbon	mg/L	0.106	1.00	10.0	11.4	11.4	25.8		114	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 9/26/23 11:25

Customer ID:

Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-13DR

Laboratory ID Number: BD18198

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18204	Alkalinity	mg CaCO3/L					212	51.3	45.0 to 55.0			0.00	10.0
BD18205	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.97	0.037	2.02	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BD18204	Solids, Dissolved	mg/L	1.00	25.0			726	52.0	40.0 to 60.0			0.549	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13SR

Location Code: WMWMLAP
Collected: 9/26/23 14:05
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18199

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	10/3/23 07:45	10/3/23 16:23		1.015	0.0417	mg/L	0.030000	0.1015	J
* Calcium, Total	10/3/23 07:45	10/4/23 15:26		10.15	62.9	mg/L	0.70035	4.06	
* Iron, Total	10/3/23 07:45	10/4/23 15:26		10.15	12.2	mg/L	0.08120	0.406	
* Lithium, Total	10/3/23 07:45	10/3/23 16:23		1.015	0.0222	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/3/23 07:45	10/4/23 15:26		10.15	138	mg/L	0.21315	4.06	
* Molybdenum, Total	10/3/23 07:45	10/3/23 16:23		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/3/23 07:45	10/3/23 16:23		1	18.5	mg/L			
* Silicon, Total	10/3/23 07:45	10/3/23 16:23		1.015	8.63	mg/L	0.02030	0.25375	
* Sodium, Total	10/3/23 07:45	10/3/23 16:23		1.015	21.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	9/28/23 15:32	9/28/23 16:17		1.015	0.0405	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	9/28/23 15:32	9/28/23 17:02		10.15	59.3	mg/L	0.70035	4.06	
* Iron, Dissolved	9/28/23 15:32	9/28/23 17:02		10.15	12.6	mg/L	0.08120	0.406	
* Lithium, Dissolved	9/28/23 15:32	9/28/23 16:17		1.015	0.0215	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	9/28/23 15:32	9/28/23 17:02		10.15	132	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	9/28/23 15:32	10/3/23 12:48		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	9/28/23 15:32	9/28/23 16:17		1	18.6	mg/L			
* Silicon, Dissolved	9/28/23 15:32	9/28/23 16:17		1.015	8.68	mg/L	0.02030	0.25375	
* Sodium, Dissolved	9/28/23 15:32	9/28/23 16:17		1.015	22.1	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	10/3/23 07:45	10/3/23 12:13		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/3/23 07:45	10/3/23 12:13		1.015	0.658	mg/L	0.009135	0.05075	
* Arsenic, Total	10/3/23 07:45	10/3/23 12:13		1.015	0.00102	mg/L	0.000112	0.000203	
* Barium, Total	10/3/23 07:45	10/3/23 12:13		1.015	0.0172	mg/L	0.000508	0.001015	
* Beryllium, Total	10/3/23 07:45	10/3/23 12:13		1.015	0.00188	mg/L	0.000406	0.001015	
* Cadmium, Total	10/3/23 07:45	10/3/23 12:13		1.015	0.000822	mg/L	0.000068	0.000203	
* Chromium, Total	10/3/23 07:45	10/3/23 12:13		1.015	0.000364	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/3/23 07:45	10/3/23 12:13		1.015	0.0872	mg/L	0.000068	0.000203	
* Lead, Total	10/3/23 07:45	10/3/23 12:13		1.015	0.000686	mg/L	0.000068	0.000203	
* Manganese, Total	10/3/23 07:45	10/3/23 12:51		5.075	2.86	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13SR

Location Code: WMWMILAP
Collected: 9/26/23 14:05
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18199

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/3/23 07:45	10/3/23 12:13		1.015	3.94	mg/L	0.169505	0.5075	
* Selenium, Total	10/3/23 07:45	10/3/23 12:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/3/23 07:45	10/3/23 12:13		1.015	0.000169	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	0.720	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	0.00105	mg/L	0.000112	0.000203	
* Barium, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	0.0171	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	0.00183	mg/L	0.000406	0.001015	
* Cadmium, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	0.000852	mg/L	0.000068	0.000203	
* Chromium, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	0.0915	mg/L	0.000068	0.000203	
* Lead, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	0.000697	mg/L	0.000068	0.000203	
* Manganese, Dissolved	9/28/23 15:32	10/3/23 13:06		5.075	2.89	mg/L	0.000761	0.005075	
* Potassium, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	4.15	mg/L	0.169505	0.5075	
* Selenium, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	9/28/23 15:32	10/2/23 14:35		1.015	0.000139	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/2/23 18:30	10/2/23 23:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/4/23 09:43	10/4/23 09:43		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/6/23 14:13	10/6/23 15:00		1	4.19	SU		2	
* Alkalinity	10/6/23 14:13	10/6/23 15:00		1	13.7	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/28/23 13:45	10/2/23 13:25		1	997	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	13.7	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/3/23 11:26	10/3/23 11:26		1	1.56	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-13SR

Location Code: WMWMILAP
Collected: 9/26/23 14:05
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18199

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/3/23 12:09	10/3/23 12:09		1	4.32	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/3/23 14:20	10/3/23 14:20		1	0.169	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 09:39	10/12/23 09:39		40	667	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/26/23 14:01	9/26/23 14:01			1245.36	uS/cm			FA
pH	9/26/23 14:01	9/26/23 14:01			5.05	SU			FA
Temperature	9/26/23 14:01	9/26/23 14:01			20.50	C			FA
Turbidity	9/26/23 14:01	9/26/23 14:01			1	NTU			FA
Sulfide	9/26/23 14:01	9/26/23 14:01			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/26/23 14:05
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-13SR

Laboratory ID Number: BD18199

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Aluminum, Dissolved	mg/L	-0.00120	0.0198	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18198	Aluminum, Total	mg/L	0.000657	0.0198	0.100	0.112	0.111	0.101	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD18204	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0968	0.0959	0.0948	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0
BD18198	Antimony, Total	mg/L	0.000255	0.00100	0.100	0.0999	0.0997	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BD18204	Arsenic, Dissolved	mg/L	0.0000048	0.000200	0.100	0.104	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD18198	Arsenic, Total	mg/L	0.0000182	0.000200	0.100	0.101	0.102	0.101	0.0850 to 0.115	100	70.0 to 130	0.985	20.0
BD18204	Barium, Dissolved	mg/L	-0.0000054	0.00100	0.100	0.116	0.119	0.0993	0.0850 to 0.115	96.1	70.0 to 130	2.55	20.0
BD18198	Barium, Total	mg/L	0.0000074	0.00100	0.100	0.158	0.157	0.102	0.0850 to 0.115	102	70.0 to 130	0.635	20.0
BD18204	Beryllium, Dissolved	mg/L	0.0000100	0.000880	0.100	0.0917	0.0966	0.0902	0.0850 to 0.115	91.7	70.0 to 130	5.20	20.0
BD18198	Beryllium, Total	mg/L	0.0000533	0.000880	0.100	0.0958	0.0947	0.0953	0.0850 to 0.115	95.8	70.0 to 130	1.15	20.0
BD18204	Boron, Dissolved	mg/L	-0.000238	0.0650	1.00	1.15	1.15	1.00	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18205	Boron, Total	mg/L	0.000788	0.0650	1.00	0.985	0.981	0.991	0.850 to 1.15	98.5	70.0 to 130	0.407	20.0
BD18204	Cadmium, Dissolved	mg/L	0.0000056	0.000147	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18198	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0985	0.0964	0.101	0.0850 to 0.115	98.5	70.0 to 130	2.15	20.0
BD18204	Calcium, Dissolved	mg/L	-0.0186	0.152	5.00	120	125	4.93	4.25 to 5.75	-100	70.0 to 130	4.08	20.0
BD18205	Calcium, Total	mg/L	-0.00156	0.152	5.00	4.91	4.90	4.92	4.25 to 5.75	98.2	70.0 to 130	0.204	20.0
BD18205	Chloride	mg/L	-0.00228	1.00	10.0	10.2	10.1	10.2	9.00 to 11.0	102	80.0 to 120	0.985	20.0
BD18204	Chromium, Dissolved	mg/L	-0.0000879	0.000440	0.100	0.0975	0.0952	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.39	20.0
BD18198	Chromium, Total	mg/L	-0.0000508	0.000440	0.100	0.0976	0.0974	0.103	0.0850 to 0.115	97.3	70.0 to 130	0.205	20.0
BD18204	Cobalt, Dissolved	mg/L	-0.0000371	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD18198	Cobalt, Total	mg/L	-0.0000052	0.000147	0.100	0.0984	0.0993	0.104	0.0850 to 0.115	97.4	70.0 to 130	0.910	20.0
BD18205	Fluoride	mg/L	0.0658	0.125	2.50	2.52	2.61	2.50	2.25 to 2.75	101	80.0 to 120	3.51	20.0
BD18204	Iron, Dissolved	mg/L	0.00183	0.0176	0.2	5.44	5.52	0.201	0.170 to 0.230	-95.0	70.0 to 130	1.46	20.0
BD18205	Iron, Total	mg/L	-0.000895	0.0176	0.2	0.201	0.200	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/26/23 14:05
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-13SR

Laboratory ID Number: BD18199

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Lead, Dissolved	mg/L	0.0000059	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0982	0.0992	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.01	20.0
BD18204	Lithium, Dissolved	mg/L	0.000119	0.0154	0.200	0.255	0.255	0.202	0.170 to 0.230	107	70.0 to 130	0.00	20.0
BD18205	Lithium, Total	mg/L	0.000895	0.0154	0.200	0.195	0.199	0.201	0.170 to 0.230	97.5	70.0 to 130	2.03	20.0
BD18204	Magnesium, Dissolved	mg/L	-0.00851	0.0462	5.00	66.1	68.6	5.07	4.25 to 5.75	0.00	70.0 to 130	3.71	20.0
BD18205	Magnesium, Total	mg/L	-0.0173	0.0462	5.00	4.92	4.95	4.96	4.25 to 5.75	98.4	70.0 to 130	0.608	20.0
BD18204	Manganese, Dissolved	mg/L	0.0000102	0.00033	0.100	0.629	0.618	0.104	0.0850 to 0.115	91.0	70.0 to 130	1.76	20.0
BD18198	Manganese, Total	mg/L	-0.0000016	0.00033	0.100	0.209	0.210	0.103	0.0850 to 0.115	95.0	70.0 to 130	0.477	20.0
BD18205	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00402	0.00404	0.00404	0.00340 to 0.00460	100	70.0 to 130	0.496	20.0
BD18204	Molybdenum, Dissolved	mg/L	-0.000237	0.0100	0.2	0.206	0.207	0.204	0.170 to 0.230	103	70.0 to 130	0.484	20.0
BD18205	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD18204	Potassium, Dissolved	mg/L	-0.00514	0.367	10.0	11.9	11.7	10.4	8.50 to 11.5	99.8	70.0 to 130	1.69	20.0
BD18198	Potassium, Total	mg/L	0.0000647	0.367	10.0	11.9	12.1	10.0	8.50 to 11.5	95.7	70.0 to 130	1.67	20.0
BD18204	Selenium, Dissolved	mg/L	0.0000156	0.00100	0.100	0.0988	0.0978	0.101	0.0850 to 0.115	98.8	70.0 to 130	1.02	20.0
BD18198	Selenium, Total	mg/L	0.0000709	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD18204	Silicon, Dissolved	mg/L	-0.000670	0.0440	1.00	13.6	13.7	1.03	0.850 to 1.15	90.0	70.0 to 130	0.733	20.0
BD18205	Silicon, Total	mg/L	0.000603	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD18204	Sodium, Dissolved	mg/L	0.00589	0.0880	5.00	36.9	36.8	4.97	4.25 to 5.75	108	70.0 to 130	0.271	20.0
BD18205	Sodium, Total	mg/L	0.00466	0.0880	5.00	4.84	4.90	4.92	4.25 to 5.75	96.8	70.0 to 130	1.23	20.0
BD18205	Sulfate	mg/L	-0.232	2.0	20.0	19.8	19.3	19.3	18.0 to 22.0	99.0	80.0 to 120	2.56	20.0
BD18204	Thallium, Dissolved	mg/L	-0.0000297	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Thallium, Total	mg/L	0.0000045	0.000147	0.100	0.0997	0.101	0.102	0.0850 to 0.115	99.7	70.0 to 130	1.30	20.0
BD18204	Total Organic Carbon	mg/L	0.106	1.00	10.0	11.4	11.4	25.8		114	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 9/26/23 14:05

Customer ID:

Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-13SR

Laboratory ID Number: BD18199

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18204	Alkalinity	mg CaCO3/L					212	51.3	45.0 to 55.0			0.00	10.0
BD18205	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.97	0.037	2.02	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BD18204	Solids, Dissolved	mg/L	1.00	25.0			726	52.0	40.0 to 60.0			0.549	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-15

Location Code: WMWMILAP
Collected: 9/26/23 15:25
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18200

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/3/23 07:45	10/3/23 16:26		1.015	2.31	mg/L	0.030000	0.1015	
* Calcium, Total	10/3/23 07:45	10/4/23 15:29		10.15	82.2	mg/L	0.70035	4.06	
* Iron, Total	10/3/23 07:45	10/4/23 15:29		10.15	17.8	mg/L	0.08120	0.406	
* Lithium, Total	10/3/23 07:45	10/3/23 16:26		1.015	0.0229	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/3/23 07:45	10/3/23 16:26		1.015	24.2	mg/L	0.021315	0.406	
* Molybdenum, Total	10/3/23 07:45	10/3/23 16:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/3/23 07:45	10/3/23 16:26		1	29.5	mg/L			
* Silicon, Total	10/3/23 07:45	10/3/23 16:26		1.015	13.8	mg/L	0.02030	0.25375	
* Sodium, Total	10/3/23 07:45	10/4/23 15:29		10.15	98.4	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	9/28/23 15:32	9/28/23 16:20		1.015	2.32	mg/L	0.030000	0.1015	
* Calcium, Dissolved	9/28/23 15:32	9/28/23 17:05		10.15	78.8	mg/L	0.70035	4.06	
* Iron, Dissolved	9/28/23 15:32	9/28/23 17:05		10.15	17.9	mg/L	0.08120	0.406	
* Lithium, Dissolved	9/28/23 15:32	9/28/23 16:20		1.015	0.0221	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	9/28/23 15:32	9/28/23 16:20		1.015	24.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	9/28/23 15:32	10/3/23 12:51		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	9/28/23 15:32	9/28/23 16:20		1	29.5	mg/L			
* Silicon, Dissolved	9/28/23 15:32	9/28/23 16:20		1.015	13.8	mg/L	0.02030	0.25375	
* Sodium, Dissolved	9/28/23 15:32	9/28/23 17:05		10.15	95.0	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/3/23 07:45	10/3/23 12:17		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/3/23 07:45	10/3/23 12:17		1.015	0.00103	mg/L	0.000112	0.000203	
* Aluminum, Total	10/3/23 07:45	10/3/23 12:17		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/3/23 07:45	10/3/23 12:17		1.015	0.0307	mg/L	0.000508	0.001015	
* Beryllium, Total	10/3/23 07:45	10/3/23 12:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/3/23 07:45	10/3/23 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/3/23 07:45	10/3/23 12:17		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/3/23 07:45	10/3/23 12:17		1.015	0.0320	mg/L	0.000068	0.000203	
* Lead, Total	10/3/23 07:45	10/3/23 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/3/23 07:45	10/3/23 12:55		5.075	2.62	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-15

Location Code: WMWMILAP
Collected: 9/26/23 15:25
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18200

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/3/23 07:45	10/3/23 12:17		1.015	4.44	mg/L	0.169505	0.5075	
* Selenium, Total	10/3/23 07:45	10/3/23 12:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/3/23 07:45	10/3/23 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	0.00107	mg/L	0.000112	0.000203	
* Barium, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	0.0296	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	0.0341	mg/L	0.000068	0.000203	
* Lead, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	9/28/23 15:32	10/3/23 13:10		5.075	2.60	mg/L	0.000761	0.005075	
* Potassium, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	4.55	mg/L	0.169505	0.5075	
* Selenium, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	9/28/23 15:32	10/2/23 14:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/2/23 18:30	10/2/23 23:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/4/23 09:45	10/4/23 09:45		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/6/23 14:13	10/6/23 15:00		1	4.43	SU		2	
* Alkalinity	10/6/23 14:13	10/6/23 15:00		1	41.2	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/28/23 13:45	10/2/23 13:25		1	702	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	41.2	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/3/23 11:41	10/3/23 11:41		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-15

Location Code: WMWMILAP
Collected: 9/26/23 15:25
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18200

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/3/23 12:11	10/3/23 12:11		1	16.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/3/23 14:22	10/3/23 14:22		1	0.128	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 09:41	10/12/23 09:41		32	438	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/26/23 15:23	9/26/23 15:23			948.90	uS/cm			FA
pH	9/26/23 15:23	9/26/23 15:23			5.89	SU			FA
Temperature	9/26/23 15:23	9/26/23 15:23			20.18	C			FA
Turbidity	9/26/23 15:23	9/26/23 15:23			1.08	NTU			FA
Sulfide	9/26/23 15:23	9/26/23 15:23			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/26/23 15:25
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-15

Laboratory ID Number: BD18200

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Aluminum, Dissolved	mg/L	-0.00120	0.0198	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18198	Aluminum, Total	mg/L	0.000657	0.0198	0.100	0.112	0.111	0.101	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD18204	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0968	0.0959	0.0948	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0
BD18198	Antimony, Total	mg/L	0.000255	0.00100	0.100	0.0999	0.0997	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BD18204	Arsenic, Dissolved	mg/L	0.0000048	0.000200	0.100	0.104	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD18198	Arsenic, Total	mg/L	0.0000182	0.000200	0.100	0.101	0.102	0.101	0.0850 to 0.115	100	70.0 to 130	0.985	20.0
BD18204	Barium, Dissolved	mg/L	-0.0000054	0.00100	0.100	0.116	0.119	0.0993	0.0850 to 0.115	96.1	70.0 to 130	2.55	20.0
BD18198	Barium, Total	mg/L	0.0000074	0.00100	0.100	0.158	0.157	0.102	0.0850 to 0.115	102	70.0 to 130	0.635	20.0
BD18204	Beryllium, Dissolved	mg/L	0.0000100	0.000880	0.100	0.0917	0.0966	0.0902	0.0850 to 0.115	91.7	70.0 to 130	5.20	20.0
BD18198	Beryllium, Total	mg/L	0.0000533	0.000880	0.100	0.0958	0.0947	0.0953	0.0850 to 0.115	95.8	70.0 to 130	1.15	20.0
BD18204	Boron, Dissolved	mg/L	-0.000238	0.0650	1.00	1.15	1.15	1.00	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18205	Boron, Total	mg/L	0.000788	0.0650	1.00	0.985	0.981	0.991	0.850 to 1.15	98.5	70.0 to 130	0.407	20.0
BD18204	Cadmium, Dissolved	mg/L	0.0000056	0.000147	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18198	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0985	0.0964	0.101	0.0850 to 0.115	98.5	70.0 to 130	2.15	20.0
BD18204	Calcium, Dissolved	mg/L	-0.0186	0.152	5.00	120	125	4.93	4.25 to 5.75	-100	70.0 to 130	4.08	20.0
BD18205	Calcium, Total	mg/L	-0.00156	0.152	5.00	4.91	4.90	4.92	4.25 to 5.75	98.2	70.0 to 130	0.204	20.0
BD18205	Chloride	mg/L	-0.00228	1.00	10.0	10.2	10.1	10.2	9.00 to 11.0	102	80.0 to 120	0.985	20.0
BD18204	Chromium, Dissolved	mg/L	-0.0000879	0.000440	0.100	0.0975	0.0952	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.39	20.0
BD18198	Chromium, Total	mg/L	-0.0000508	0.000440	0.100	0.0976	0.0974	0.103	0.0850 to 0.115	97.3	70.0 to 130	0.205	20.0
BD18204	Cobalt, Dissolved	mg/L	-0.0000371	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD18198	Cobalt, Total	mg/L	-0.0000052	0.000147	0.100	0.0984	0.0993	0.104	0.0850 to 0.115	97.4	70.0 to 130	0.910	20.0
BD18205	Fluoride	mg/L	0.0658	0.125	2.50	2.52	2.61	2.50	2.25 to 2.75	101	80.0 to 120	3.51	20.0
BD18204	Iron, Dissolved	mg/L	0.00183	0.0176	0.2	5.44	5.52	0.201	0.170 to 0.230	-95.0	70.0 to 130	1.46	20.0
BD18205	Iron, Total	mg/L	-0.000895	0.0176	0.2	0.201	0.200	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/26/23 15:25
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-15

Laboratory ID Number: BD18200

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Lead, Dissolved	mg/L	0.0000059	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0982	0.0992	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.01	20.0
BD18204	Lithium, Dissolved	mg/L	0.000119	0.0154	0.200	0.255	0.255	0.202	0.170 to 0.230	107	70.0 to 130	0.00	20.0
BD18205	Lithium, Total	mg/L	0.000895	0.0154	0.200	0.195	0.199	0.201	0.170 to 0.230	97.5	70.0 to 130	2.03	20.0
BD18204	Magnesium, Dissolved	mg/L	-0.00851	0.0462	5.00	66.1	68.6	5.07	4.25 to 5.75	0.00	70.0 to 130	3.71	20.0
BD18205	Magnesium, Total	mg/L	-0.0173	0.0462	5.00	4.92	4.95	4.96	4.25 to 5.75	98.4	70.0 to 130	0.608	20.0
BD18204	Manganese, Dissolved	mg/L	0.0000102	0.00033	0.100	0.629	0.618	0.104	0.0850 to 0.115	91.0	70.0 to 130	1.76	20.0
BD18198	Manganese, Total	mg/L	-0.0000016	0.00033	0.100	0.209	0.210	0.103	0.0850 to 0.115	95.0	70.0 to 130	0.477	20.0
BD18205	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00402	0.00404	0.00404	0.00340 to 0.00460	100	70.0 to 130	0.496	20.0
BD18204	Molybdenum, Dissolved	mg/L	-0.000237	0.0100	0.2	0.206	0.207	0.204	0.170 to 0.230	103	70.0 to 130	0.484	20.0
BD18205	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD18204	Potassium, Dissolved	mg/L	-0.00514	0.367	10.0	11.9	11.7	10.4	8.50 to 11.5	99.8	70.0 to 130	1.69	20.0
BD18198	Potassium, Total	mg/L	0.0000647	0.367	10.0	11.9	12.1	10.0	8.50 to 11.5	95.7	70.0 to 130	1.67	20.0
BD18204	Selenium, Dissolved	mg/L	0.0000156	0.00100	0.100	0.0988	0.0978	0.101	0.0850 to 0.115	98.8	70.0 to 130	1.02	20.0
BD18198	Selenium, Total	mg/L	0.0000709	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD18204	Silicon, Dissolved	mg/L	-0.000670	0.0440	1.00	13.6	13.7	1.03	0.850 to 1.15	90.0	70.0 to 130	0.733	20.0
BD18205	Silicon, Total	mg/L	0.000603	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD18204	Sodium, Dissolved	mg/L	0.00589	0.0880	5.00	36.9	36.8	4.97	4.25 to 5.75	108	70.0 to 130	0.271	20.0
BD18205	Sodium, Total	mg/L	0.00466	0.0880	5.00	4.84	4.90	4.92	4.25 to 5.75	96.8	70.0 to 130	1.23	20.0
BD18205	Sulfate	mg/L	-0.232	2.0	20.0	19.8	19.3	19.3	18.0 to 22.0	99.0	80.0 to 120	2.56	20.0
BD18204	Thallium, Dissolved	mg/L	-0.0000297	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Thallium, Total	mg/L	0.0000045	0.000147	0.100	0.0997	0.101	0.102	0.0850 to 0.115	99.7	70.0 to 130	1.30	20.0
BD18204	Total Organic Carbon	mg/L	0.106	1.00	10.0	11.4	11.4	25.8		114	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 9/26/23 15:25

Customer ID:

Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-15

Laboratory ID Number: BD18200

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18204	Alkalinity	mg CaCO3/L					212	51.3	45.0 to 55.0			0.00	10.0
BD18205	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.97	0.037	2.02	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BD18204	Solids, Dissolved	mg/L	1.00	25.0			726	52.0	40.0 to 60.0			0.549	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-27HR

Location Code: WMWMILAP
Collected: 9/27/23 11:15
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18201

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/3/23 07:45	10/3/23 16:29		1.015	0.0411	mg/L	0.030000	0.1015	J
* Calcium, Total	10/3/23 07:45	10/4/23 15:32		10.15	58.2	mg/L	0.70035	4.06	
* Iron, Total	10/3/23 07:45	10/3/23 16:29		1.015	0.547	mg/L	0.008120	0.0406	
* Lithium, Total	10/3/23 07:45	10/3/23 16:29		1.015	0.0574	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/3/23 07:45	10/3/23 16:29		1.015	28.3	mg/L	0.021315	0.406	
* Molybdenum, Total	10/3/23 07:45	10/3/23 16:29		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/3/23 07:45	10/3/23 16:29		1	31.0	mg/L			
* Silicon, Total	10/3/23 07:45	10/3/23 16:29		1.015	14.5	mg/L	0.02030	0.25375	
* Sodium, Total	10/3/23 07:45	10/3/23 16:29		1.015	30.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	9/28/23 15:32	9/28/23 16:23		1.015	0.0402	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	9/28/23 15:32	9/28/23 17:08		10.15	50.5	mg/L	0.70035	4.06	
* Iron, Dissolved	9/28/23 15:32	9/28/23 16:23		1.015	0.110	mg/L	0.008120	0.0406	
* Lithium, Dissolved	9/28/23 15:32	9/28/23 16:23		1.015	0.0575	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	9/28/23 15:32	9/28/23 16:23		1.015	28.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	9/28/23 15:32	10/3/23 12:54		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	9/28/23 15:32	9/28/23 16:23		1	31.0	mg/L			
* Silicon, Dissolved	9/28/23 15:32	9/28/23 16:23		1.015	14.5	mg/L	0.02030	0.25375	
* Sodium, Dissolved	9/28/23 15:32	9/28/23 16:23		1.015	31.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/3/23 07:45	10/3/23 12:20		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/3/23 07:45	10/3/23 12:20		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/3/23 07:45	10/3/23 12:20		1.015	0.000242	mg/L	0.000112	0.000203	
* Barium, Total	10/3/23 07:45	10/3/23 12:20		1.015	0.0439	mg/L	0.000508	0.001015	
* Beryllium, Total	10/3/23 07:45	10/3/23 12:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/3/23 07:45	10/3/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/3/23 07:45	10/3/23 12:20		1.015	0.000204	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/3/23 07:45	10/3/23 12:20		1.015	0.000128	mg/L	0.000068	0.000203	J
* Lead, Total	10/3/23 07:45	10/3/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/3/23 07:45	10/3/23 12:20		1.015	0.384	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-27HR

Location Code: WMWMILAP
Collected: 9/27/23 11:15
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18201

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/3/23 07:45	10/3/23 12:20		1.015	3.38	mg/L	0.169505	0.5075	
* Selenium, Total	10/3/23 07:45	10/3/23 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/3/23 07:45	10/3/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	0.0429	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	0.000122	mg/L	0.000068	0.000203	J
* Lead, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	0.367	mg/L	0.000152	0.001015	
* Potassium, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	3.40	mg/L	0.169505	0.5075	
* Selenium, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	9/28/23 15:32	10/2/23 14:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/2/23 18:30	10/3/23 00:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/4/23 09:46	10/4/23 09:46		1	0.279	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/6/23 14:13	10/6/23 15:00		1	4.48	SU		2	
* Alkalinity	10/6/23 14:13	10/6/23 15:00		1	159	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/28/23 13:45	10/2/23 13:25		1	378	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	159	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/3/23 11:59	10/3/23 11:59		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-27HR

Location Code: WMWMILAP
Collected: 9/27/23 11:15
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18201

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/3/23 12:12	10/3/23 12:12		1	15.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/3/23 14:23	10/3/23 14:23		1	0.143	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 09:42	10/12/23 09:42		8	124	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/27/23 11:11	9/27/23 11:11			580.69	uS/cm			FA
pH	9/27/23 11:11	9/27/23 11:11			5.62	SU			FA
Temperature	9/27/23 11:11	9/27/23 11:11			19.21	C			FA
Turbidity	9/27/23 11:11	9/27/23 11:11			0.66	NTU			FA
Sulfide	9/27/23 11:11	9/27/23 11:11			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 11:15
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-27HR

Laboratory ID Number: BD18201

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Aluminum, Dissolved	mg/L	-0.00120	0.0198	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18198	Aluminum, Total	mg/L	0.000657	0.0198	0.100	0.112	0.111	0.101	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD18204	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0968	0.0959	0.0948	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0
BD18198	Antimony, Total	mg/L	0.000255	0.00100	0.100	0.0999	0.0997	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BD18204	Arsenic, Dissolved	mg/L	0.0000048	0.000200	0.100	0.104	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD18198	Arsenic, Total	mg/L	0.0000182	0.000200	0.100	0.101	0.102	0.101	0.0850 to 0.115	100	70.0 to 130	0.985	20.0
BD18204	Barium, Dissolved	mg/L	-0.0000054	0.00100	0.100	0.116	0.119	0.0993	0.0850 to 0.115	96.1	70.0 to 130	2.55	20.0
BD18198	Barium, Total	mg/L	0.0000074	0.00100	0.100	0.158	0.157	0.102	0.0850 to 0.115	102	70.0 to 130	0.635	20.0
BD18204	Beryllium, Dissolved	mg/L	0.0000100	0.000880	0.100	0.0917	0.0966	0.0902	0.0850 to 0.115	91.7	70.0 to 130	5.20	20.0
BD18198	Beryllium, Total	mg/L	0.0000533	0.000880	0.100	0.0958	0.0947	0.0953	0.0850 to 0.115	95.8	70.0 to 130	1.15	20.0
BD18204	Boron, Dissolved	mg/L	-0.000238	0.0650	1.00	1.15	1.15	1.00	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18205	Boron, Total	mg/L	0.000788	0.0650	1.00	0.985	0.981	0.991	0.850 to 1.15	98.5	70.0 to 130	0.407	20.0
BD18204	Cadmium, Dissolved	mg/L	0.0000056	0.000147	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18198	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0985	0.0964	0.101	0.0850 to 0.115	98.5	70.0 to 130	2.15	20.0
BD18204	Calcium, Dissolved	mg/L	-0.0186	0.152	5.00	120	125	4.93	4.25 to 5.75	-100	70.0 to 130	4.08	20.0
BD18205	Calcium, Total	mg/L	-0.00156	0.152	5.00	4.91	4.90	4.92	4.25 to 5.75	98.2	70.0 to 130	0.204	20.0
BD18205	Chloride	mg/L	-0.00228	1.00	10.0	10.2	10.1	10.2	9.00 to 11.0	102	80.0 to 120	0.985	20.0
BD18204	Chromium, Dissolved	mg/L	-0.0000879	0.000440	0.100	0.0975	0.0952	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.39	20.0
BD18198	Chromium, Total	mg/L	-0.0000508	0.000440	0.100	0.0976	0.0974	0.103	0.0850 to 0.115	97.3	70.0 to 130	0.205	20.0
BD18204	Cobalt, Dissolved	mg/L	-0.0000371	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD18198	Cobalt, Total	mg/L	-0.0000052	0.000147	0.100	0.0984	0.0993	0.104	0.0850 to 0.115	97.4	70.0 to 130	0.910	20.0
BD18205	Fluoride	mg/L	0.0658	0.125	2.50	2.52	2.61	2.50	2.25 to 2.75	101	80.0 to 120	3.51	20.0
BD18204	Iron, Dissolved	mg/L	0.00183	0.0176	0.2	5.44	5.52	0.201	0.170 to 0.230	-95.0	70.0 to 130	1.46	20.0
BD18205	Iron, Total	mg/L	-0.000895	0.0176	0.2	0.201	0.200	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 11:15
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-27HR

Laboratory ID Number: BD18201

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18204	Lead, Dissolved	mg/L	0.0000059	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0982	0.0992	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.01	20.0
BD18204	Lithium, Dissolved	mg/L	0.000119	0.0154	0.200	0.255	0.255	0.202	0.170 to 0.230	107	70.0 to 130	0.00	20.0
BD18205	Lithium, Total	mg/L	0.000895	0.0154	0.200	0.195	0.199	0.201	0.170 to 0.230	97.5	70.0 to 130	2.03	20.0
BD18204	Magnesium, Dissolved	mg/L	-0.00851	0.0462	5.00	66.1	68.6	5.07	4.25 to 5.75	0.00	70.0 to 130	3.71	20.0
BD18205	Magnesium, Total	mg/L	-0.0173	0.0462	5.00	4.92	4.95	4.96	4.25 to 5.75	98.4	70.0 to 130	0.608	20.0
BD18204	Manganese, Dissolved	mg/L	0.0000102	0.00033	0.100	0.629	0.618	0.104	0.0850 to 0.115	91.0	70.0 to 130	1.76	20.0
BD18198	Manganese, Total	mg/L	-0.0000016	0.00033	0.100	0.209	0.210	0.103	0.0850 to 0.115	95.0	70.0 to 130	0.477	20.0
BD18205	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00402	0.00404	0.00404	0.00340 to 0.00460	100	70.0 to 130	0.496	20.0
BD18204	Molybdenum, Dissolved	mg/L	-0.000237	0.0100	0.2	0.206	0.207	0.204	0.170 to 0.230	103	70.0 to 130	0.484	20.0
BD18205	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD18204	Potassium, Dissolved	mg/L	-0.00514	0.367	10.0	11.9	11.7	10.4	8.50 to 11.5	99.8	70.0 to 130	1.69	20.0
BD18198	Potassium, Total	mg/L	0.0000647	0.367	10.0	11.9	12.1	10.0	8.50 to 11.5	95.7	70.0 to 130	1.67	20.0
BD18204	Selenium, Dissolved	mg/L	0.0000156	0.00100	0.100	0.0988	0.0978	0.101	0.0850 to 0.115	98.8	70.0 to 130	1.02	20.0
BD18198	Selenium, Total	mg/L	0.0000709	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD18204	Silicon, Dissolved	mg/L	-0.000670	0.0440	1.00	13.6	13.7	1.03	0.850 to 1.15	90.0	70.0 to 130	0.733	20.0
BD18205	Silicon, Total	mg/L	0.000603	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD18204	Sodium, Dissolved	mg/L	0.00589	0.0880	5.00	36.9	36.8	4.97	4.25 to 5.75	108	70.0 to 130	0.271	20.0
BD18205	Sodium, Total	mg/L	0.00466	0.0880	5.00	4.84	4.90	4.92	4.25 to 5.75	96.8	70.0 to 130	1.23	20.0
BD18205	Sulfate	mg/L	-0.232	2.0	20.0	19.8	19.3	19.3	18.0 to 22.0	99.0	80.0 to 120	2.56	20.0
BD18204	Thallium, Dissolved	mg/L	-0.0000297	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Thallium, Total	mg/L	0.0000045	0.000147	0.100	0.0997	0.101	0.102	0.0850 to 0.115	99.7	70.0 to 130	1.30	20.0
BD18204	Total Organic Carbon	mg/L	0.106	1.00	10.0	11.4	11.4	25.8		114	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 9/27/23 11:15

Customer ID:

Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-27HR

Laboratory ID Number: BD18201

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18204	Alkalinity	mg CaCO3/L					212	51.3	45.0 to 55.0			0.00	10.0
BD18205	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.97	0.037	2.02	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BD18204	Solids, Dissolved	mg/L	1.00	25.0			726	52.0	40.0 to 60.0			0.549	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-28H

Location Code: WMWMILAP
Collected: 9/27/23 12:30
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18202

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/3/23 07:45	10/3/23 16:32		1.015	0.190	mg/L	0.030000	0.1015	
* Calcium, Total	10/3/23 07:45	10/4/23 15:35		10.15	49.6	mg/L	0.70035	4.06	
* Iron, Total	10/3/23 07:45	10/3/23 16:32		1.015	0.842	mg/L	0.008120	0.0406	
* Lithium, Total	10/3/23 07:45	10/3/23 16:32		1.015	0.0490	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/3/23 07:45	10/3/23 16:32		1.015	22.7	mg/L	0.021315	0.406	
* Molybdenum, Total	10/3/23 07:45	10/3/23 16:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/3/23 07:45	10/3/23 16:32		1	34.7	mg/L			
* Silicon, Total	10/3/23 07:45	10/3/23 16:32		1.015	16.2	mg/L	0.02030	0.25375	
* Sodium, Total	10/3/23 07:45	10/4/23 15:35		10.15	45.6	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	9/28/23 15:32	9/28/23 16:26		1.015	0.190	mg/L	0.030000	0.1015	
* Calcium, Dissolved	9/28/23 15:32	9/28/23 17:12		10.15	51.0	mg/L	0.70035	4.06	
* Iron, Dissolved	9/28/23 15:32	9/28/23 16:26		1.015	0.646	mg/L	0.008120	0.0406	
* Lithium, Dissolved	9/28/23 15:32	9/28/23 16:26		1.015	0.0485	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	9/28/23 15:32	9/28/23 16:26		1.015	22.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	9/28/23 15:32	10/3/23 12:57		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	9/28/23 15:32	9/28/23 16:26		1	34.7	mg/L			
* Silicon, Dissolved	9/28/23 15:32	9/28/23 16:26		1.015	16.2	mg/L	0.02030	0.25375	
* Sodium, Dissolved	9/28/23 15:32	9/28/23 17:12		10.15	50.0	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/3/23 07:45	10/3/23 12:24		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/3/23 07:45	10/3/23 12:24		1.015	0.00108	mg/L	0.000112	0.000203	
* Aluminum, Total	10/3/23 07:45	10/3/23 12:24		1.015	0.0119	mg/L	0.009135	0.05075	J
* Barium, Total	10/3/23 07:45	10/3/23 12:24		1.015	0.0555	mg/L	0.000508	0.001015	
* Beryllium, Total	10/3/23 07:45	10/3/23 12:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/3/23 07:45	10/3/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/3/23 07:45	10/3/23 12:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/3/23 07:45	10/3/23 12:24		1.015	0.000199	mg/L	0.000068	0.000203	J
* Lead, Total	10/3/23 07:45	10/3/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/3/23 07:45	10/3/23 12:24		1.015	0.0589	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-28H

Location Code: WMWMILAP
Collected: 9/27/23 12:30
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18202

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/3/23 07:45	10/3/23 12:24		1.015	1.91	mg/L	0.169505	0.5075	
* Selenium, Total	10/3/23 07:45	10/3/23 12:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/3/23 07:45	10/3/23 12:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	0.000885	mg/L	0.000112	0.000203	
* Barium, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	0.0547	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	0.000170	mg/L	0.000068	0.000203	J
* Lead, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	0.0610	mg/L	0.000152	0.001015	
* Potassium, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	1.95	mg/L	0.169505	0.5075	
* Selenium, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	9/28/23 15:32	10/2/23 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/2/23 18:30	10/3/23 00:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/4/23 09:47	10/4/23 09:47		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/6/23 14:13	10/6/23 15:00		1	4.47	SU		2	
* Alkalinity	10/6/23 14:13	10/6/23 15:00		1	197	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/28/23 13:45	10/2/23 13:25		1	329	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	197	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/3/23 12:14	10/3/23 12:14		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-28H

Location Code: WMWMILAP
Collected: 9/27/23 12:30
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18202

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/3/23 12:13	10/3/23 12:13		1	18.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/3/23 14:24	10/3/23 14:24		1	0.154	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 09:43	10/12/23 09:43		3	79.4	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/27/23 12:28	9/27/23 12:28			487.45	uS/cm			FA
pH	9/27/23 12:28	9/27/23 12:28			6.22	SU			FA
Temperature	9/27/23 12:28	9/27/23 12:28			22.05	C			FA
Turbidity	9/27/23 12:28	9/27/23 12:28			3.33	NTU			FA
Sulfide	9/27/23 12:28	9/27/23 12:28			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 12:30
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-28H

Laboratory ID Number: BD18202

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Aluminum, Dissolved	mg/L	-0.00120	0.0198	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18198	Aluminum, Total	mg/L	0.000657	0.0198	0.100	0.112	0.111	0.101	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD18204	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0968	0.0959	0.0948	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0
BD18198	Antimony, Total	mg/L	0.000255	0.00100	0.100	0.0999	0.0997	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BD18204	Arsenic, Dissolved	mg/L	0.0000048	0.000200	0.100	0.104	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD18198	Arsenic, Total	mg/L	0.0000182	0.000200	0.100	0.101	0.102	0.101	0.0850 to 0.115	100	70.0 to 130	0.985	20.0
BD18204	Barium, Dissolved	mg/L	-0.0000054	0.00100	0.100	0.116	0.119	0.0993	0.0850 to 0.115	96.1	70.0 to 130	2.55	20.0
BD18198	Barium, Total	mg/L	0.0000074	0.00100	0.100	0.158	0.157	0.102	0.0850 to 0.115	102	70.0 to 130	0.635	20.0
BD18204	Beryllium, Dissolved	mg/L	0.0000100	0.000880	0.100	0.0917	0.0966	0.0902	0.0850 to 0.115	91.7	70.0 to 130	5.20	20.0
BD18198	Beryllium, Total	mg/L	0.0000533	0.000880	0.100	0.0958	0.0947	0.0953	0.0850 to 0.115	95.8	70.0 to 130	1.15	20.0
BD18204	Boron, Dissolved	mg/L	-0.000238	0.0650	1.00	1.15	1.15	1.00	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18205	Boron, Total	mg/L	0.000788	0.0650	1.00	0.985	0.981	0.991	0.850 to 1.15	98.5	70.0 to 130	0.407	20.0
BD18204	Cadmium, Dissolved	mg/L	0.0000056	0.000147	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18198	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0985	0.0964	0.101	0.0850 to 0.115	98.5	70.0 to 130	2.15	20.0
BD18204	Calcium, Dissolved	mg/L	-0.0186	0.152	5.00	120	125	4.93	4.25 to 5.75	-100	70.0 to 130	4.08	20.0
BD18205	Calcium, Total	mg/L	-0.00156	0.152	5.00	4.91	4.90	4.92	4.25 to 5.75	98.2	70.0 to 130	0.204	20.0
BD18205	Chloride	mg/L	-0.00228	1.00	10.0	10.2	10.1	10.2	9.00 to 11.0	102	80.0 to 120	0.985	20.0
BD18204	Chromium, Dissolved	mg/L	-0.0000879	0.000440	0.100	0.0975	0.0952	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.39	20.0
BD18198	Chromium, Total	mg/L	-0.0000508	0.000440	0.100	0.0976	0.0974	0.103	0.0850 to 0.115	97.3	70.0 to 130	0.205	20.0
BD18204	Cobalt, Dissolved	mg/L	-0.0000371	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD18198	Cobalt, Total	mg/L	-0.0000052	0.000147	0.100	0.0984	0.0993	0.104	0.0850 to 0.115	97.4	70.0 to 130	0.910	20.0
BD18205	Fluoride	mg/L	0.0658	0.125	2.50	2.52	2.61	2.50	2.25 to 2.75	101	80.0 to 120	3.51	20.0
BD18204	Iron, Dissolved	mg/L	0.00183	0.0176	0.2	5.44	5.52	0.201	0.170 to 0.230	-95.0	70.0 to 130	1.46	20.0
BD18205	Iron, Total	mg/L	-0.000895	0.0176	0.2	0.201	0.200	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 12:30
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-28H

Laboratory ID Number: BD18202

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BD18204	Lead, Dissolved	mg/L	0.0000059	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0982	0.0992	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.01	20.0
BD18204	Lithium, Dissolved	mg/L	0.000119	0.0154	0.200	0.255	0.255	0.202	0.170 to 0.230	107	70.0 to 130	0.00	20.0
BD18205	Lithium, Total	mg/L	0.000895	0.0154	0.200	0.195	0.199	0.201	0.170 to 0.230	97.5	70.0 to 130	2.03	20.0
BD18204	Magnesium, Dissolved	mg/L	-0.00851	0.0462	5.00	66.1	68.6	5.07	4.25 to 5.75	0.00	70.0 to 130	3.71	20.0
BD18205	Magnesium, Total	mg/L	-0.0173	0.0462	5.00	4.92	4.95	4.96	4.25 to 5.75	98.4	70.0 to 130	0.608	20.0
BD18204	Manganese, Dissolved	mg/L	0.0000102	0.00033	0.100	0.629	0.618	0.104	0.0850 to 0.115	91.0	70.0 to 130	1.76	20.0
BD18198	Manganese, Total	mg/L	-0.0000016	0.00033	0.100	0.209	0.210	0.103	0.0850 to 0.115	95.0	70.0 to 130	0.477	20.0
BD18205	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00402	0.00404	0.00404	0.00340 to 0.00460	100	70.0 to 130	0.496	20.0
BD18204	Molybdenum, Dissolved	mg/L	-0.000237	0.0100	0.2	0.206	0.207	0.204	0.170 to 0.230	103	70.0 to 130	0.484	20.0
BD18205	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD18204	Potassium, Dissolved	mg/L	-0.00514	0.367	10.0	11.9	11.7	10.4	8.50 to 11.5	99.8	70.0 to 130	1.69	20.0
BD18198	Potassium, Total	mg/L	0.0000647	0.367	10.0	11.9	12.1	10.0	8.50 to 11.5	95.7	70.0 to 130	1.67	20.0
BD18204	Selenium, Dissolved	mg/L	0.0000156	0.00100	0.100	0.0988	0.0978	0.101	0.0850 to 0.115	98.8	70.0 to 130	1.02	20.0
BD18198	Selenium, Total	mg/L	0.0000709	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD18204	Silicon, Dissolved	mg/L	-0.000670	0.0440	1.00	13.6	13.7	1.03	0.850 to 1.15	90.0	70.0 to 130	0.733	20.0
BD18205	Silicon, Total	mg/L	0.000603	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD18204	Sodium, Dissolved	mg/L	0.00589	0.0880	5.00	36.9	36.8	4.97	4.25 to 5.75	108	70.0 to 130	0.271	20.0
BD18205	Sodium, Total	mg/L	0.00466	0.0880	5.00	4.84	4.90	4.92	4.25 to 5.75	96.8	70.0 to 130	1.23	20.0
BD18205	Sulfate	mg/L	-0.232	2.0	20.0	19.8	19.3	19.3	18.0 to 22.0	99.0	80.0 to 120	2.56	20.0
BD18204	Thallium, Dissolved	mg/L	-0.0000297	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Thallium, Total	mg/L	0.0000045	0.000147	0.100	0.0997	0.101	0.102	0.0850 to 0.115	99.7	70.0 to 130	1.30	20.0
BD18204	Total Organic Carbon	mg/L	0.106	1.00	10.0	11.4	11.4	25.8		114	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 12:30
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-28H

Laboratory ID Number: BD18202

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18204	Alkalinity	mg CaCO3/L					212	51.3	45.0 to 55.0			0.00	10.0
BD18205	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.97	0.037	2.02	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BD18204	Solids, Dissolved	mg/L	1.00	25.0			726	52.0	40.0 to 60.0			0.549	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9DR

Location Code: WMWMILAP
Collected: 9/27/23 14:15
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18203

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/3/23 07:45	10/3/23 16:35		1.015	0.228	mg/L	0.030000	0.1015	
* Calcium, Total	10/3/23 07:45	10/4/23 15:38		10.15	173	mg/L	0.70035	4.06	
* Iron, Total	10/3/23 07:45	10/4/23 15:38		10.15	23.8	mg/L	0.08120	0.406	
* Lithium, Total	10/3/23 07:45	10/3/23 16:35		1.015	0.0583	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/3/23 07:45	10/4/23 15:38		10.15	99.6	mg/L	0.21315	4.06	
* Molybdenum, Total	10/3/23 07:45	10/3/23 16:35		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/3/23 07:45	10/3/23 16:35		1	29.1	mg/L			
* Silicon, Total	10/3/23 07:45	10/3/23 16:35		1.015	13.6	mg/L	0.02030	0.25375	
* Sodium, Total	10/3/23 07:45	10/4/23 15:38		10.15	44.5	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	9/28/23 15:32	9/28/23 16:29		1.015	0.232	mg/L	0.030000	0.1015	
* Calcium, Dissolved	9/28/23 15:32	9/28/23 17:15		10.15	168	mg/L	0.70035	4.06	
* Iron, Dissolved	9/28/23 15:32	9/28/23 17:15		10.15	23.9	mg/L	0.08120	0.406	
* Lithium, Dissolved	9/28/23 15:32	9/28/23 16:29		1.015	0.0620	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	9/28/23 15:32	9/28/23 17:15		10.15	96.2	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	9/28/23 15:32	10/3/23 13:01		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	9/28/23 15:32	9/28/23 16:29		1	29.3	mg/L			
* Silicon, Dissolved	9/28/23 15:32	9/28/23 16:29		1.015	13.7	mg/L	0.02030	0.25375	
* Sodium, Dissolved	9/28/23 15:32	9/28/23 17:15		10.15	42.5	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/3/23 07:45	10/3/23 12:28		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/3/23 07:45	10/3/23 12:28		1.015	0.000510	mg/L	0.000112	0.000203	
* Aluminum, Total	10/3/23 07:45	10/3/23 12:28		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/3/23 07:45	10/3/23 12:28		1.015	0.0202	mg/L	0.000508	0.001015	
* Beryllium, Total	10/3/23 07:45	10/3/23 12:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/3/23 07:45	10/3/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/3/23 07:45	10/3/23 12:28		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/3/23 07:45	10/3/23 12:28		1.015	0.0000905	mg/L	0.000068	0.000203	J
* Lead, Total	10/3/23 07:45	10/3/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/3/23 07:45	10/3/23 12:58		5.075	1.57	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9DR

Location Code: WMWMILAP
Collected: 9/27/23 14:15
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18203

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/3/23 07:45	10/3/23 12:28		1.015	2.19	mg/L	0.169505	0.5075	
* Selenium, Total	10/3/23 07:45	10/3/23 12:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/3/23 07:45	10/3/23 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	0.000474	mg/L	0.000112	0.000203	
* Barium, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	0.0197	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	9/28/23 15:32	10/3/23 13:13		5.075	1.54	mg/L	0.000761	0.005075	
* Potassium, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	2.30	mg/L	0.169505	0.5075	
* Selenium, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	9/28/23 15:32	10/2/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/2/23 18:30	10/3/23 00:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/4/23 09:48	10/4/23 09:48		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/6/23 14:13	10/6/23 15:00		1	4.48	SU		2	
* Alkalinity	10/6/23 14:13	10/6/23 15:00		1	170	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/28/23 13:45	10/2/23 13:25		1	1120	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	170	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/3/23 12:32	10/3/23 12:32		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9DR

Location Code: WMWMILAP
Collected: 9/27/23 14:15
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18203

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/3/23 12:14	10/3/23 12:14		1	9.11	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/3/23 14:25	10/3/23 14:25		1	0.188	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 09:44	10/12/23 09:44		40	666	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/27/23 14:10	9/27/23 14:10			1377.07	uS/cm			FA
pH	9/27/23 14:10	9/27/23 14:10			6.35	SU			FA
Temperature	9/27/23 14:10	9/27/23 14:10			17.61	C			FA
Turbidity	9/27/23 14:10	9/27/23 14:10			0.53	NTU			FA
Sulfide	9/27/23 14:10	9/27/23 14:10			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 14:15
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-9DR

Laboratory ID Number: BD18203

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Aluminum, Dissolved	mg/L	-0.00120	0.0198	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18198	Aluminum, Total	mg/L	0.000657	0.0198	0.100	0.112	0.111	0.101	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD18204	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0968	0.0959	0.0948	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0
BD18198	Antimony, Total	mg/L	0.000255	0.00100	0.100	0.0999	0.0997	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BD18204	Arsenic, Dissolved	mg/L	0.0000048	0.000200	0.100	0.104	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD18198	Arsenic, Total	mg/L	0.0000182	0.000200	0.100	0.101	0.102	0.101	0.0850 to 0.115	100	70.0 to 130	0.985	20.0
BD18204	Barium, Dissolved	mg/L	-0.0000054	0.00100	0.100	0.116	0.119	0.0993	0.0850 to 0.115	96.1	70.0 to 130	2.55	20.0
BD18198	Barium, Total	mg/L	0.0000074	0.00100	0.100	0.158	0.157	0.102	0.0850 to 0.115	102	70.0 to 130	0.635	20.0
BD18204	Beryllium, Dissolved	mg/L	0.0000100	0.000880	0.100	0.0917	0.0966	0.0902	0.0850 to 0.115	91.7	70.0 to 130	5.20	20.0
BD18198	Beryllium, Total	mg/L	0.0000533	0.000880	0.100	0.0958	0.0947	0.0953	0.0850 to 0.115	95.8	70.0 to 130	1.15	20.0
BD18204	Boron, Dissolved	mg/L	-0.000238	0.0650	1.00	1.15	1.15	1.00	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18205	Boron, Total	mg/L	0.000788	0.0650	1.00	0.985	0.981	0.991	0.850 to 1.15	98.5	70.0 to 130	0.407	20.0
BD18204	Cadmium, Dissolved	mg/L	0.0000056	0.000147	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18198	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0985	0.0964	0.101	0.0850 to 0.115	98.5	70.0 to 130	2.15	20.0
BD18204	Calcium, Dissolved	mg/L	-0.0186	0.152	5.00	120	125	4.93	4.25 to 5.75	-100	70.0 to 130	4.08	20.0
BD18205	Calcium, Total	mg/L	-0.00156	0.152	5.00	4.91	4.90	4.92	4.25 to 5.75	98.2	70.0 to 130	0.204	20.0
BD18205	Chloride	mg/L	-0.00228	1.00	10.0	10.2	10.1	10.2	9.00 to 11.0	102	80.0 to 120	0.985	20.0
BD18204	Chromium, Dissolved	mg/L	-0.0000879	0.000440	0.100	0.0975	0.0952	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.39	20.0
BD18198	Chromium, Total	mg/L	-0.0000508	0.000440	0.100	0.0976	0.0974	0.103	0.0850 to 0.115	97.3	70.0 to 130	0.205	20.0
BD18204	Cobalt, Dissolved	mg/L	-0.0000371	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD18198	Cobalt, Total	mg/L	-0.0000052	0.000147	0.100	0.0984	0.0993	0.104	0.0850 to 0.115	97.4	70.0 to 130	0.910	20.0
BD18205	Fluoride	mg/L	0.0658	0.125	2.50	2.52	2.61	2.50	2.25 to 2.75	101	80.0 to 120	3.51	20.0
BD18204	Iron, Dissolved	mg/L	0.00183	0.0176	0.2	5.44	5.52	0.201	0.170 to 0.230	-95.0	70.0 to 130	1.46	20.0
BD18205	Iron, Total	mg/L	-0.000895	0.0176	0.2	0.201	0.200	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 14:15
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-9DR

Laboratory ID Number: BD18203

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18204	Lead, Dissolved	mg/L	0.0000059	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0982	0.0992	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.01	20.0
BD18204	Lithium, Dissolved	mg/L	0.000119	0.0154	0.200	0.255	0.255	0.202	0.170 to 0.230	107	70.0 to 130	0.00	20.0
BD18205	Lithium, Total	mg/L	0.000895	0.0154	0.200	0.195	0.199	0.201	0.170 to 0.230	97.5	70.0 to 130	2.03	20.0
BD18204	Magnesium, Dissolved	mg/L	-0.00851	0.0462	5.00	66.1	68.6	5.07	4.25 to 5.75	0.00	70.0 to 130	3.71	20.0
BD18205	Magnesium, Total	mg/L	-0.0173	0.0462	5.00	4.92	4.95	4.96	4.25 to 5.75	98.4	70.0 to 130	0.608	20.0
BD18204	Manganese, Dissolved	mg/L	0.0000102	0.00033	0.100	0.629	0.618	0.104	0.0850 to 0.115	91.0	70.0 to 130	1.76	20.0
BD18198	Manganese, Total	mg/L	-0.0000016	0.00033	0.100	0.209	0.210	0.103	0.0850 to 0.115	95.0	70.0 to 130	0.477	20.0
BD18205	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00402	0.00404	0.00404	0.00340 to 0.00460	100	70.0 to 130	0.496	20.0
BD18204	Molybdenum, Dissolved	mg/L	-0.000237	0.0100	0.2	0.206	0.207	0.204	0.170 to 0.230	103	70.0 to 130	0.484	20.0
BD18205	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD18204	Potassium, Dissolved	mg/L	-0.00514	0.367	10.0	11.9	11.7	10.4	8.50 to 11.5	99.8	70.0 to 130	1.69	20.0
BD18198	Potassium, Total	mg/L	0.0000647	0.367	10.0	11.9	12.1	10.0	8.50 to 11.5	95.7	70.0 to 130	1.67	20.0
BD18204	Selenium, Dissolved	mg/L	0.0000156	0.00100	0.100	0.0988	0.0978	0.101	0.0850 to 0.115	98.8	70.0 to 130	1.02	20.0
BD18198	Selenium, Total	mg/L	0.0000709	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD18204	Silicon, Dissolved	mg/L	-0.000670	0.0440	1.00	13.6	13.7	1.03	0.850 to 1.15	90.0	70.0 to 130	0.733	20.0
BD18205	Silicon, Total	mg/L	0.000603	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD18204	Sodium, Dissolved	mg/L	0.00589	0.0880	5.00	36.9	36.8	4.97	4.25 to 5.75	108	70.0 to 130	0.271	20.0
BD18205	Sodium, Total	mg/L	0.00466	0.0880	5.00	4.84	4.90	4.92	4.25 to 5.75	96.8	70.0 to 130	1.23	20.0
BD18205	Sulfate	mg/L	-0.232	2.0	20.0	19.8	19.3	19.3	18.0 to 22.0	99.0	80.0 to 120	2.56	20.0
BD18204	Thallium, Dissolved	mg/L	-0.0000297	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Thallium, Total	mg/L	0.0000045	0.000147	0.100	0.0997	0.101	0.102	0.0850 to 0.115	99.7	70.0 to 130	1.30	20.0
BD18204	Total Organic Carbon	mg/L	0.106	1.00	10.0	11.4	11.4	25.8		114	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 14:15
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-9DR

Laboratory ID Number: BD18203

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18204	Alkalinity	mg CaCO3/L					212	51.3	45.0 to 55.0			0.00	10.0
BD18205	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.97	0.037	2.02	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BD18204	Solids, Dissolved	mg/L	1.00	25.0			726	52.0	40.0 to 60.0			0.549	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9SR

Location Code: WMWMILAP
Collected: 9/27/23 15:12
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18204

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/3/23 07:45	10/3/23 16:38		1.015	0.114	mg/L	0.030000	0.1015	
* Calcium, Total	10/3/23 07:45	10/4/23 15:41		10.15	118	mg/L	0.70035	4.06	
* Iron, Total	10/3/23 07:45	10/4/23 15:41		10.15	5.11	mg/L	0.08120	0.406	
* Lithium, Total	10/3/23 07:45	10/3/23 16:38		1.015	0.0419	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/3/23 07:45	10/4/23 15:41		10.15	60.9	mg/L	0.21315	4.06	
* Molybdenum, Total	10/3/23 07:45	10/3/23 16:38		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/3/23 07:45	10/3/23 16:38		1	27.0	mg/L			
* Silicon, Total	10/3/23 07:45	10/3/23 16:38		1.015	12.6	mg/L	0.02030	0.25375	
* Sodium, Total	10/3/23 07:45	10/3/23 16:38		1.015	30.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	9/28/23 15:32	9/28/23 16:32		1.015	0.114	mg/L	0.030000	0.1015	
* Calcium, Dissolved	9/28/23 15:32	9/28/23 17:18		10.15	125	mg/L	0.70035	4.06	RA
* Iron, Dissolved	9/28/23 15:32	9/28/23 17:18		10.15	5.63	mg/L	0.08120	0.406	RA
* Lithium, Dissolved	9/28/23 15:32	9/28/23 16:32		1.015	0.0418	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	9/28/23 15:32	9/28/23 17:18		10.15	66.1	mg/L	0.21315	4.06	RA
* Molybdenum, Dissolved	9/28/23 15:32	10/3/23 13:04		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	9/28/23 15:32	9/28/23 16:32		1	27.2	mg/L			
* Silicon, Dissolved	9/28/23 15:32	9/28/23 16:32		1.015	12.7	mg/L	0.02030	0.25375	
* Sodium, Dissolved	9/28/23 15:32	9/28/23 16:32		1.015	31.5	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/3/23 07:45	10/3/23 12:32		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/3/23 07:45	10/3/23 12:32		1.015	0.000760	mg/L	0.000112	0.000203	
* Aluminum, Total	10/3/23 07:45	10/3/23 12:32		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/3/23 07:45	10/3/23 12:32		1.015	0.0208	mg/L	0.000508	0.001015	
* Beryllium, Total	10/3/23 07:45	10/3/23 12:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/3/23 07:45	10/3/23 12:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/3/23 07:45	10/3/23 12:32		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/3/23 07:45	10/3/23 12:32		1.015	0.000124	mg/L	0.000068	0.000203	J
* Lead, Total	10/3/23 07:45	10/3/23 12:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/3/23 07:45	10/3/23 12:32		1.015	0.532	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9SR

Location Code: WMWMILAP
Collected: 9/27/23 15:12
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18204

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/3/23 07:45	10/3/23 12:32		1.015	1.88	mg/L	0.169505	0.5075	
* Selenium, Total	10/3/23 07:45	10/3/23 12:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/3/23 07:45	10/3/23 12:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	0.000787	mg/L	0.000112	0.000203	
* Barium, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	0.0199	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	0.0000867	mg/L	0.000068	0.000203	J
* Lead, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	0.538	mg/L	0.000152	0.001015	
* Potassium, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	1.92	mg/L	0.169505	0.5075	
* Selenium, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	9/28/23 15:32	10/2/23 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/2/23 18:30	10/3/23 00:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/4/23 09:49	10/4/23 09:49		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/6/23 14:13	10/6/23 15:00		1	4.49	SU		2	
* Alkalinity	10/6/23 14:13	10/6/23 15:00		1	212	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	9/28/23 13:45	10/2/23 13:25		1	730	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	212	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/6/23 14:13	10/6/23 15:00		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/3/23 12:50	10/3/23 12:50		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-9SR

Location Code: WMWMILAP
Collected: 9/27/23 15:12
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18204

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/3/23 12:15	10/3/23 12:15		1	5.66	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/3/23 14:26	10/3/23 14:26		1	0.125	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 09:45	10/12/23 09:45		32	358	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	9/27/23 15:08	9/27/23 15:08			996.97	uS/cm			FA
pH	9/27/23 15:08	9/27/23 15:08			6.19	SU			FA
Temperature	9/27/23 15:08	9/27/23 15:08			17.89	C			FA
Turbidity	9/27/23 15:08	9/27/23 15:08			0.98	NTU			FA
Sulfide	9/27/23 15:08	9/27/23 15:08			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 15:12
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-9SR

Laboratory ID Number: BD18204

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Aluminum, Dissolved	mg/L	-0.00120	0.0198	0.100	0.104	0.102	0.105	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18198	Aluminum, Total	mg/L	0.000657	0.0198	0.100	0.112	0.111	0.101	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD18204	Antimony, Dissolved	mg/L	0.000184	0.00100	0.100	0.0968	0.0959	0.0948	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0
BD18198	Antimony, Total	mg/L	0.000255	0.00100	0.100	0.0999	0.0997	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BD18204	Arsenic, Dissolved	mg/L	0.0000048	0.000200	0.100	0.104	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD18198	Arsenic, Total	mg/L	0.0000182	0.000200	0.100	0.101	0.102	0.101	0.0850 to 0.115	100	70.0 to 130	0.985	20.0
BD18204	Barium, Dissolved	mg/L	-0.0000054	0.00100	0.100	0.116	0.119	0.0993	0.0850 to 0.115	96.1	70.0 to 130	2.55	20.0
BD18198	Barium, Total	mg/L	0.0000074	0.00100	0.100	0.158	0.157	0.102	0.0850 to 0.115	102	70.0 to 130	0.635	20.0
BD18204	Beryllium, Dissolved	mg/L	0.0000100	0.000880	0.100	0.0917	0.0966	0.0902	0.0850 to 0.115	91.7	70.0 to 130	5.20	20.0
BD18198	Beryllium, Total	mg/L	0.0000533	0.000880	0.100	0.0958	0.0947	0.0953	0.0850 to 0.115	95.8	70.0 to 130	1.15	20.0
BD18204	Boron, Dissolved	mg/L	-0.000238	0.0650	1.00	1.15	1.15	1.00	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18205	Boron, Total	mg/L	0.000788	0.0650	1.00	0.985	0.981	0.991	0.850 to 1.15	98.5	70.0 to 130	0.407	20.0
BD18204	Cadmium, Dissolved	mg/L	0.0000056	0.000147	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18198	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0985	0.0964	0.101	0.0850 to 0.115	98.5	70.0 to 130	2.15	20.0
BD18204	Calcium, Dissolved	mg/L	-0.0186	0.152	5.00	120	125	4.93	4.25 to 5.75	-100	70.0 to 130	4.08	20.0
BD18205	Calcium, Total	mg/L	-0.00156	0.152	5.00	4.91	4.90	4.92	4.25 to 5.75	98.2	70.0 to 130	0.204	20.0
BD18205	Chloride	mg/L	-0.00228	1.00	10.0	10.2	10.1	10.2	9.00 to 11.0	102	80.0 to 120	0.985	20.0
BD18204	Chromium, Dissolved	mg/L	-0.0000879	0.000440	0.100	0.0975	0.0952	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.39	20.0
BD18198	Chromium, Total	mg/L	-0.0000508	0.000440	0.100	0.0976	0.0974	0.103	0.0850 to 0.115	97.3	70.0 to 130	0.205	20.0
BD18204	Cobalt, Dissolved	mg/L	-0.0000371	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD18198	Cobalt, Total	mg/L	-0.0000052	0.000147	0.100	0.0984	0.0993	0.104	0.0850 to 0.115	97.4	70.0 to 130	0.910	20.0
BD18205	Fluoride	mg/L	0.0658	0.125	2.50	2.52	2.61	2.50	2.25 to 2.75	101	80.0 to 120	3.51	20.0
BD18204	Iron, Dissolved	mg/L	0.00183	0.0176	0.2	5.44	5.52	0.201	0.170 to 0.230	-95.0	70.0 to 130	1.46	20.0
BD18205	Iron, Total	mg/L	-0.000895	0.0176	0.2	0.201	0.200	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 15:12
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-9SR

Laboratory ID Number: BD18204

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18204	Lead, Dissolved	mg/L	0.0000059	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0982	0.0992	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.01	20.0
BD18204	Lithium, Dissolved	mg/L	0.000119	0.0154	0.200	0.255	0.255	0.202	0.170 to 0.230	107	70.0 to 130	0.00	20.0
BD18205	Lithium, Total	mg/L	0.000895	0.0154	0.200	0.195	0.199	0.201	0.170 to 0.230	97.5	70.0 to 130	2.03	20.0
BD18204	Magnesium, Dissolved	mg/L	-0.00851	0.0462	5.00	66.1	68.6	5.07	4.25 to 5.75	0.00	70.0 to 130	3.71	20.0
BD18205	Magnesium, Total	mg/L	-0.0173	0.0462	5.00	4.92	4.95	4.96	4.25 to 5.75	98.4	70.0 to 130	0.608	20.0
BD18204	Manganese, Dissolved	mg/L	0.0000102	0.00033	0.100	0.629	0.618	0.104	0.0850 to 0.115	91.0	70.0 to 130	1.76	20.0
BD18198	Manganese, Total	mg/L	-0.0000016	0.00033	0.100	0.209	0.210	0.103	0.0850 to 0.115	95.0	70.0 to 130	0.477	20.0
BD18205	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00402	0.00404	0.00404	0.00340 to 0.00460	100	70.0 to 130	0.496	20.0
BD18204	Molybdenum, Dissolved	mg/L	-0.000237	0.0100	0.2	0.206	0.207	0.204	0.170 to 0.230	103	70.0 to 130	0.484	20.0
BD18205	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD18204	Potassium, Dissolved	mg/L	-0.00514	0.367	10.0	11.9	11.7	10.4	8.50 to 11.5	99.8	70.0 to 130	1.69	20.0
BD18198	Potassium, Total	mg/L	0.0000647	0.367	10.0	11.9	12.1	10.0	8.50 to 11.5	95.7	70.0 to 130	1.67	20.0
BD18204	Selenium, Dissolved	mg/L	0.0000156	0.00100	0.100	0.0988	0.0978	0.101	0.0850 to 0.115	98.8	70.0 to 130	1.02	20.0
BD18198	Selenium, Total	mg/L	0.0000709	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD18204	Silicon, Dissolved	mg/L	-0.000670	0.0440	1.00	13.6	13.7	1.03	0.850 to 1.15	90.0	70.0 to 130	0.733	20.0
BD18205	Silicon, Total	mg/L	0.000603	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD18204	Sodium, Dissolved	mg/L	0.00589	0.0880	5.00	36.9	36.8	4.97	4.25 to 5.75	108	70.0 to 130	0.271	20.0
BD18205	Sodium, Total	mg/L	0.00466	0.0880	5.00	4.84	4.90	4.92	4.25 to 5.75	96.8	70.0 to 130	1.23	20.0
BD18205	Sulfate	mg/L	-0.232	2.0	20.0	19.8	19.3	19.3	18.0 to 22.0	99.0	80.0 to 120	2.56	20.0
BD18204	Thallium, Dissolved	mg/L	-0.0000297	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18198	Thallium, Total	mg/L	0.0000045	0.000147	0.100	0.0997	0.101	0.102	0.0850 to 0.115	99.7	70.0 to 130	1.30	20.0
BD18204	Total Organic Carbon	mg/L	0.106	1.00	10.0	11.4	11.4	25.8		114	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 9/27/23 15:12
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond - MW-9SR

Laboratory ID Number: BD18204

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18204	Alkalinity	mg CaCO3/L					212	51.3	45.0 to 55.0			0.00	10.0
BD18205	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.97	0.037	2.02	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BD18204	Solids, Dissolved	mg/L	1.00	25.0			726	52.0	40.0 to 60.0			0.549	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-1

Location Code: WMWMILAPFB
Collected: 9/27/23 15:45
Customer ID:
Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18205

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/3/23 07:45	10/3/23 16:42		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/3/23 07:45	10/3/23 16:42		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/3/23 07:45	10/3/23 16:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/3/23 07:45	10/3/23 16:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/3/23 07:45	10/3/23 16:42		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/3/23 07:45	10/3/23 16:42		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/3/23 07:45	10/3/23 16:42		1	Not Detected	mg/L			
* Silicon, Total	10/3/23 07:45	10/3/23 16:42		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/3/23 07:45	10/3/23 16:42		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/3/23 07:45	10/3/23 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/2/23 18:30	10/3/23 00:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	10/4/23 09:50	10/4/23 09:50		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	9/28/23 13:45	10/2/23 13:25		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-1

Location Code: WMWMILAPFB

Collected: 9/27/23 15:45

Customer ID:

Submittal Date: 9/28/23 09:08

Laboratory ID Number: BD18205

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/3/23 13:37	10/3/23 13:37		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/3/23 12:17	10/3/23 12:17		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/3/23 14:28	10/3/23 14:28		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 09:34	10/12/23 09:34		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 9/27/23 15:45

Customer ID:

Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond Field Blank-1

Laboratory ID Number: BD18205

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18198	Aluminum, Total	mg/L	0.000657	0.0198	0.100	0.112	0.111	0.101	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD18198	Antimony, Total	mg/L	0.000255	0.00100	0.100	0.0999	0.0997	0.0982	0.0850 to 0.115	99.9	70.0 to 130	0.200	20.0
BD18198	Arsenic, Total	mg/L	0.0000182	0.000200	0.100	0.101	0.102	0.101	0.0850 to 0.115	100	70.0 to 130	0.985	20.0
BD18198	Barium, Total	mg/L	0.0000074	0.00100	0.100	0.158	0.157	0.102	0.0850 to 0.115	102	70.0 to 130	0.635	20.0
BD18198	Beryllium, Total	mg/L	0.0000533	0.000880	0.100	0.0958	0.0947	0.0953	0.0850 to 0.115	95.8	70.0 to 130	1.15	20.0
BD18205	Boron, Total	mg/L	0.000788	0.0650	1.00	0.985	0.981	0.991	0.850 to 1.15	98.5	70.0 to 130	0.407	20.0
BD18198	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0985	0.0964	0.101	0.0850 to 0.115	98.5	70.0 to 130	2.15	20.0
BD18205	Calcium, Total	mg/L	-0.00156	0.152	5.00	4.91	4.90	4.92	4.25 to 5.75	98.2	70.0 to 130	0.204	20.0
BD18205	Chloride	mg/L	-0.00228	1.00	10.0	10.2	10.1	10.2	9.00 to 11.0	102	80.0 to 120	0.985	20.0
BD18198	Chromium, Total	mg/L	-0.0000508	0.000440	0.100	0.0976	0.0974	0.103	0.0850 to 0.115	97.3	70.0 to 130	0.205	20.0
BD18198	Cobalt, Total	mg/L	-0.0000052	0.000147	0.100	0.0984	0.0993	0.104	0.0850 to 0.115	97.4	70.0 to 130	0.910	20.0
BD18205	Fluoride	mg/L	0.0658	0.125	2.50	2.52	2.61	2.50	2.25 to 2.75	101	80.0 to 120	3.51	20.0
BD18205	Iron, Total	mg/L	-0.000895	0.0176	0.2	0.201	0.200	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD18198	Lead, Total	mg/L	-0.0000022	0.000147	0.100	0.0982	0.0992	0.100	0.0850 to 0.115	98.2	70.0 to 130	1.01	20.0
BD18205	Lithium, Total	mg/L	0.000895	0.0154	0.200	0.195	0.199	0.201	0.170 to 0.230	97.5	70.0 to 130	2.03	20.0
BD18205	Magnesium, Total	mg/L	-0.0173	0.0462	5.00	4.92	4.95	4.96	4.25 to 5.75	98.4	70.0 to 130	0.608	20.0
BD18198	Manganese, Total	mg/L	-0.0000016	0.00033	0.100	0.209	0.210	0.103	0.0850 to 0.115	95.0	70.0 to 130	0.477	20.0
BD18205	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00402	0.00404	0.00404	0.00340 to 0.00460	100	70.0 to 130	0.496	20.0
BD18205	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD18198	Potassium, Total	mg/L	0.0000647	0.367	10.0	11.9	12.1	10.0	8.50 to 11.5	95.7	70.0 to 130	1.67	20.0
BD18198	Selenium, Total	mg/L	0.0000709	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD18205	Silicon, Total	mg/L	0.000603	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD18205	Sodium, Total	mg/L	0.00466	0.0880	5.00	4.84	4.90	4.92	4.25 to 5.75	96.8	70.0 to 130	1.23	20.0
BD18205	Sulfate	mg/L	-0.232	2.0	20.0	19.8	19.3	19.3	18.0 to 22.0	99.0	80.0 to 120	2.56	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 9/27/23 15:45
Customer ID:
Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond Field Blank-1

Laboratory ID Number: BD18205

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD18198	Thallium, Total	mg/L	0.0000045	0.000147	0.100	0.0997	0.101	0.102	0.0850 to 0.115	99.7	70.0 to 130	1.30	20.0
BD18204	Total Organic Carbon	mg/L	0.106	1.00	10.0	11.4	11.4	25.8		114	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 9/27/23 15:45

Customer ID:

Delivery Date: 9/28/23 09:08

Description: Miller Ash Pond Field Blank-1

Laboratory ID Number: BD18205

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18205	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.97	0.037	2.02	1.80 to 2.20	98.5	90.0 to 110	0.00	15.0
BD18204	Solids, Dissolved	mg/L	1.00	25.0			726	52.0	40.0 to 60.0			0.549	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-6V

Location Code: WMWMILAP
Collected: 10/3/23 10:11
Customer ID:
Submittal Date: 10/5/23 11:25

Laboratory ID Number: BD18579

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 16:19		1.015	0.207	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 13:08		10.15	62.8	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/6/23 16:19		1.015	0.180	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 16:19		1.015	0.0670	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 16:19		1.015	17.9	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/6/23 16:19		1.015	0.00599	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 16:19		1	17.6	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 16:19		1.015	8.23	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 13:08		10.15	59.2	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 14:22		1.015	0.218	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:04		10.15	76.8	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/6/23 14:22		1.015	0.0714	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 14:22		1.015	0.0677	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 14:22		1.015	18.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 14:22		1.015	0.00570	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 14:22		1	17.5	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 14:22		1.015	8.18	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 10:04		10.15	68.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:00		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 17:00		1.015	0.0241	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/6/23 13:15	10/6/23 17:00		1.015	0.000981	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 17:00		1.015	0.0420	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:00		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:00		1.015	0.000158	mg/L	0.000068	0.000203	J
* Lead, Total	10/6/23 13:15	10/6/23 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 17:00		1.015	0.0958	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6V

Location Code: WMWMILAP
Collected: 10/3/23 10:11
Customer ID:
Submittal Date: 10/5/23 11:25

Laboratory ID Number: BD18579

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:00		1.015	2.02	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 17:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	0.000808	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	0.0450	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	0.000183	mg/L	0.000068	0.000203	J
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	0.122	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	1.96	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 21:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 14:40	10/9/23 14:40		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.54	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	236	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	428	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	233	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	2.82	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 15:22	10/9/23 15:22		1	1.16	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6V

Location Code: WMWMILAP
Collected: 10/3/23 10:11
Customer ID:
Submittal Date: 10/5/23 11:25

Laboratory ID Number: BD18579

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 15:00	10/5/23 15:00		1	18.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 14:43	10/6/23 14:43		1	0.214	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:16	10/12/23 10:16		3	79.2	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/3/23 10:08	10/3/23 10:08			638.48	uS/cm			FA
pH	10/3/23 10:08	10/3/23 10:08			7.87	SU			FA
Temperature	10/3/23 10:08	10/3/23 10:08			21.12	C			FA
Turbidity	10/3/23 10:08	10/3/23 10:08			4.04	NTU			FA
Sulfide	10/3/23 10:08	10/3/23 10:08			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 10:11
Customer ID:
Delivery Date: 10/5/23 11:25

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: BD18579

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD18588	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.110	0.113	0.107	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD18589	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0993	0.100	0.0884	0.0850 to 0.115	99.3	70.0 to 130	0.702	20.0
BD18588	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.101	0.101	0.0937	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD18589	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.109	0.110	0.0992	0.0850 to 0.115	99.5	70.0 to 130	0.913	20.0
BD18588	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.109	0.110	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.913	20.0
BD18589	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.122	0.123	0.0977	0.0850 to 0.115	104	70.0 to 130	0.816	20.0
BD18588	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.125	0.125	0.104	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD18589	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0999	0.0966	0.0958	0.0850 to 0.115	99.9	70.0 to 130	3.36	20.0
BD18588	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0936	0.0909	0.0910	0.0850 to 0.115	93.6	70.0 to 130	2.93	20.0
BD18589	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	2.04	2.06	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18588	Boron, Total	mg/L	0.000175	0.0650	1.00	2.05	2.04	1.01	0.850 to 1.15	103	70.0 to 130	0.489	20.0
BD18589	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0960	0.0969	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.933	20.0
BD18588	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0949	0.0956	0.0981	0.0850 to 0.115	94.9	70.0 to 130	0.735	20.0
BD18589	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	236	225	5.11	4.25 to 5.75	40.0	70.0 to 130	4.77	20.0
BD18588	Calcium, Total	mg/L	-0.00348	0.152	5.00	224	219	4.95	4.25 to 5.75	180	70.0 to 130	2.26	20.0
BD18588	Chloride	mg/L	0.0181	1.00	40.0	58.0	58.7	10.1	9.00 to 11.0	90.5	80.0 to 120	1.20	20.0
BD18589	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0969	0.0984	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.54	20.0
BD18588	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0983	0.100	0.0994	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD18589	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0986	0.100	0.0974	0.0850 to 0.115	98.6	70.0 to 130	1.41	20.0
BD18588	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0993	0.102	0.101	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BD18588	Fluoride	mg/L	0.0394	0.125	2.50	2.99	3.12	2.58	2.25 to 2.75	104	80.0 to 120	4.26	20.0
BD18589	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	4.00	4.02	0.203	0.170 to 0.230	80.0	70.0 to 130	0.499	20.0
BD18588	Iron, Total	mg/L	-0.00104	0.0176	0.2	4.01	3.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.500	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 10:11
Customer ID:
Delivery Date: 10/5/23 11:25

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: BD18579

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0985	0.0995	0.0989	0.0850 to 0.115	98.5	70.0 to 130	1.01	20.0
BD18588	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0978	0.100	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BD18589	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.417	0.410	0.203	0.170 to 0.230	106	70.0 to 130	1.69	20.0
BD18588	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.413	0.414	0.200	0.170 to 0.230	105	70.0 to 130	0.242	20.0
BD18589	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	37.4	37.2	5.13	4.25 to 5.75	104	70.0 to 130	0.536	20.0
BD18588	Magnesium, Total	mg/L	0.00562	0.0462	5.00	37.2	37.5	5.04	4.25 to 5.75	108	70.0 to 130	0.803	20.0
BD18589	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	1.95	1.91	0.105	0.0850 to 0.115	10.0	70.0 to 130	2.07	20.0
BD18588	Manganese, Total	mg/L	0.0000262	0.00033	0.100	1.96	1.98	0.106	0.0850 to 0.115	130	70.0 to 130	1.02	20.0
BD18588	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00412	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.731	20.0
BD18589	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.302	0.303	0.204	0.170 to 0.230	100	70.0 to 130	0.331	20.0
BD18588	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.303	0.301	0.201	0.170 to 0.230	101	70.0 to 130	0.662	20.0
BD18589	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	20.3	20.5	10.9	8.50 to 11.5	107	70.0 to 130	0.980	20.0
BD18588	Potassium, Total	mg/L	0.0199	0.367	10.0	20.5	21.5	10.7	8.50 to 11.5	108	70.0 to 130	4.76	20.0
BD18589	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.0963	0.0951	0.102	0.0850 to 0.115	96.3	70.0 to 130	1.25	20.0
BD18588	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0969	0.0940	0.0973	0.0850 to 0.115	96.9	70.0 to 130	3.04	20.0
BD18589	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	5.01	4.98	1.05	0.850 to 1.15	106	70.0 to 130	0.601	20.0
BD18588	Silicon, Total	mg/L	0.00016	0.0440	1.00	5.01	5.01	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD18589	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	107	102	5.16	4.25 to 5.75	120	70.0 to 130	4.78	20.0
BD18588	Sodium, Total	mg/L	0.0107	0.0880	5.00	101	97.9	5.11	4.25 to 5.75	118	70.0 to 130	3.12	20.0
BD18588	Sulfate	mg/L	-0.388	2.0	800	1460	1480	19.3	18.0 to 22.0	91.4	80.0 to 120	1.36	20.0
BD18589	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.0974	0.0974	0.0969	0.0850 to 0.115	97.4	70.0 to 130	0.00	20.0
BD18588	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0957	0.0975	0.0983	0.0850 to 0.115	95.7	70.0 to 130	1.86	20.0
BD18583	Total Organic Carbon	mg/L	0.128	1.00	10.0	11.0	11.2	22.8		110	80.0 to 120	1.80	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 10/3/23 10:11

Customer ID:

Delivery Date: 10/5/23 11:25

Description: Miller Ash Pond - MW-6V

Laboratory ID Number: BD18579

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18581	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.11	0.128	2.13	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BD18582	Solids, Dissolved	mg/L	789	25.0			764	53.0	40.0 to 60.0			2.58	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6

Location Code: WMWMILAP
Collected: 10/3/23 11:25
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18580

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 16:22		1.015	0.573	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 13:11		10.15	147	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 13:11		10.15	33.2	mg/L	0.08120	0.406	
* Lithium, Total	10/6/23 13:15	10/6/23 16:22		1.015	0.0471	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 16:22		1.015	27.1	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/6/23 16:22		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 16:22		1	21.2	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 16:22		1.015	9.89	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/6/23 16:22		1.015	38.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 14:26		1.015	0.578	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:08		10.15	143	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/11/23 10:08		10.15	31.3	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 14:26		1.015	0.0482	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 14:26		1.015	27.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 14:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 14:26		1	21.1	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 14:26		1.015	9.86	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/6/23 14:26		1.015	38.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:04		1.015	0.00225	mg/L	0.000710	0.001015	
* Arsenic, Total	10/6/23 13:15	10/6/23 17:04		1.015	0.000860	mg/L	0.000112	0.000203	
* Aluminum, Total	10/6/23 13:15	10/6/23 17:04		1.015	0.0186	mg/L	0.009135	0.05075	J
* Barium, Total	10/6/23 13:15	10/6/23 17:04		1.015	0.0241	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:04		1.015	0.00795	mg/L	0.000068	0.000203	
* Lead, Total	10/6/23 13:15	10/6/23 17:04		1.015	0.000107	mg/L	0.000068	0.000203	J
* Manganese, Total	10/6/23 13:15	10/9/23 14:52		5.075	4.31	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6

Location Code: WMWMILAP
Collected: 10/3/23 11:25
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18580

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:04		1.015	4.52	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 17:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	0.000860	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	0.0219	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	0.00768	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/9/23 13:59		5.075	4.40	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	4.49	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 21:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 14:42	10/9/23 14:42		1	0.244	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.53	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	45.6	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	814	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	45.6	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 15:40	10/9/23 15:40		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-6

Location Code: WMWMILAP
Collected: 10/3/23 11:25
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18580

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 15:15	10/5/23 15:15		2	29.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 14:44	10/6/23 14:44		1	0.108	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:18	10/12/23 10:18		25	426	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/3/23 11:21	10/3/23 11:21			905.90	uS/cm			FA
pH	10/3/23 11:21	10/3/23 11:21			6.30	SU			FA
Temperature	10/3/23 11:21	10/3/23 11:21			20.34	C			FA
Turbidity	10/3/23 11:21	10/3/23 11:21			3.18	NTU			FA
Sulfide	10/3/23 11:21	10/3/23 11:21			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 11:25
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-6

Laboratory ID Number: BD18580

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD18588	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.110	0.113	0.107	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD18589	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0993	0.100	0.0884	0.0850 to 0.115	99.3	70.0 to 130	0.702	20.0
BD18588	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.101	0.101	0.0937	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD18589	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.109	0.110	0.0992	0.0850 to 0.115	99.5	70.0 to 130	0.913	20.0
BD18588	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.109	0.110	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.913	20.0
BD18589	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.122	0.123	0.0977	0.0850 to 0.115	104	70.0 to 130	0.816	20.0
BD18588	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.125	0.125	0.104	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD18589	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0999	0.0966	0.0958	0.0850 to 0.115	99.9	70.0 to 130	3.36	20.0
BD18588	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0936	0.0909	0.0910	0.0850 to 0.115	93.6	70.0 to 130	2.93	20.0
BD18589	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	2.04	2.06	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18588	Boron, Total	mg/L	0.000175	0.0650	1.00	2.05	2.04	1.01	0.850 to 1.15	103	70.0 to 130	0.489	20.0
BD18589	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0960	0.0969	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.933	20.0
BD18588	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0949	0.0956	0.0981	0.0850 to 0.115	94.9	70.0 to 130	0.735	20.0
BD18589	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	236	225	5.11	4.25 to 5.75	40.0	70.0 to 130	4.77	20.0
BD18588	Calcium, Total	mg/L	-0.00348	0.152	5.00	224	219	4.95	4.25 to 5.75	180	70.0 to 130	2.26	20.0
BD18588	Chloride	mg/L	0.0181	1.00	40.0	58.0	58.7	10.1	9.00 to 11.0	90.5	80.0 to 120	1.20	20.0
BD18589	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0969	0.0984	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.54	20.0
BD18588	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0983	0.100	0.0994	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD18589	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0986	0.100	0.0974	0.0850 to 0.115	98.6	70.0 to 130	1.41	20.0
BD18588	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0993	0.102	0.101	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BD18588	Fluoride	mg/L	0.0394	0.125	2.50	2.99	3.12	2.58	2.25 to 2.75	104	80.0 to 120	4.26	20.0
BD18589	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	4.00	4.02	0.203	0.170 to 0.230	80.0	70.0 to 130	0.499	20.0
BD18588	Iron, Total	mg/L	-0.00104	0.0176	0.2	4.01	3.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.500	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 11:25
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-6

Laboratory ID Number: BD18580

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0985	0.0995	0.0989	0.0850 to 0.115	98.5	70.0 to 130	1.01	20.0
BD18588	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0978	0.100	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BD18589	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.417	0.410	0.203	0.170 to 0.230	106	70.0 to 130	1.69	20.0
BD18588	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.413	0.414	0.200	0.170 to 0.230	105	70.0 to 130	0.242	20.0
BD18589	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	37.4	37.2	5.13	4.25 to 5.75	104	70.0 to 130	0.536	20.0
BD18588	Magnesium, Total	mg/L	0.00562	0.0462	5.00	37.2	37.5	5.04	4.25 to 5.75	108	70.0 to 130	0.803	20.0
BD18589	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	1.95	1.91	0.105	0.0850 to 0.115	10.0	70.0 to 130	2.07	20.0
BD18588	Manganese, Total	mg/L	0.0000262	0.00033	0.100	1.96	1.98	0.106	0.0850 to 0.115	130	70.0 to 130	1.02	20.0
BD18588	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00412	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.731	20.0
BD18589	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.302	0.303	0.204	0.170 to 0.230	100	70.0 to 130	0.331	20.0
BD18588	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.303	0.301	0.201	0.170 to 0.230	101	70.0 to 130	0.662	20.0
BD18589	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	20.3	20.5	10.9	8.50 to 11.5	107	70.0 to 130	0.980	20.0
BD18588	Potassium, Total	mg/L	0.0199	0.367	10.0	20.5	21.5	10.7	8.50 to 11.5	108	70.0 to 130	4.76	20.0
BD18589	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.0963	0.0951	0.102	0.0850 to 0.115	96.3	70.0 to 130	1.25	20.0
BD18588	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0969	0.0940	0.0973	0.0850 to 0.115	96.9	70.0 to 130	3.04	20.0
BD18589	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	5.01	4.98	1.05	0.850 to 1.15	106	70.0 to 130	0.601	20.0
BD18588	Silicon, Total	mg/L	0.00016	0.0440	1.00	5.01	5.01	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD18589	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	107	102	5.16	4.25 to 5.75	120	70.0 to 130	4.78	20.0
BD18588	Sodium, Total	mg/L	0.0107	0.0880	5.00	101	97.9	5.11	4.25 to 5.75	118	70.0 to 130	3.12	20.0
BD18588	Sulfate	mg/L	-0.388	2.0	800	1460	1480	19.3	18.0 to 22.0	91.4	80.0 to 120	1.36	20.0
BD18589	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.0974	0.0974	0.0969	0.0850 to 0.115	97.4	70.0 to 130	0.00	20.0
BD18588	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0957	0.0975	0.0983	0.0850 to 0.115	95.7	70.0 to 130	1.86	20.0
BD18583	Total Organic Carbon	mg/L	0.128	1.00	10.0	11.0	11.2	22.8		110	80.0 to 120	1.80	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 10/3/23 11:25

Customer ID:

Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-6

Laboratory ID Number: BD18580

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18581	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.11	0.128	2.13	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BD18582	Solids, Dissolved	mg/L	789	25.0			764	53.0	40.0 to 60.0			2.58	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7DR

Location Code: WMWMILAP
Collected: 10/3/23 12:28
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18581

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 16:26		1.015	0.750	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 13:14		10.15	168	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/6/23 16:26		1.015	2.13	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 16:26		1.015	0.106	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/11/23 13:14		10.15	51.7	mg/L	0.21315	4.06	
* Molybdenum, Total	10/6/23 13:15	10/6/23 16:26		1.015	0.00670	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 16:26		1	14.4	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 16:26		1.015	6.73	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 13:14		10.15	101	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	0.753	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:11		10.15	152	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	2.12	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	0.107	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/11/23 10:11		10.15	46.7	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	0.00625	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 14:29		1	14.5	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	6.76	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 10:11		10.15	89.9	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 17:08		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/6/23 13:15	10/6/23 17:08		1.015	0.000432	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 17:08		1.015	0.0281	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/6/23 13:15	10/6/23 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/9/23 14:55		5.075	1.22	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7DR

Location Code: WMWMILAP
Collected: 10/3/23 12:28
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18581

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:08		1.015	3.35	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 17:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	0.000392	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	0.0270	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/9/23 14:02		5.075	1.19	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	3.15	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 21:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 14:43	10/9/23 14:43		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.51	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	146	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	894	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	146	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 15:58	10/9/23 15:58		1	1.85	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7DR

Location Code: WMWMILAP
Collected: 10/3/23 12:28
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18581

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 15:16	10/5/23 15:16		3	53.1	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 14:45	10/6/23 14:45		1	0.109	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:19	10/12/23 10:19		25	398	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/3/23 12:25	10/3/23 12:25			1046.39	uS/cm			FA
pH	10/3/23 12:25	10/3/23 12:25			6.62	SU			FA
Temperature	10/3/23 12:25	10/3/23 12:25			18.31	C			FA
Turbidity	10/3/23 12:25	10/3/23 12:25			1.67	NTU			FA
Sulfide	10/3/23 12:25	10/3/23 12:25			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 12:28
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-7DR

Laboratory ID Number: BD18581

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18589	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD18588	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.110	0.113	0.107	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD18589	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0993	0.100	0.0884	0.0850 to 0.115	99.3	70.0 to 130	0.702	20.0
BD18588	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.101	0.101	0.0937	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD18589	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.109	0.110	0.0992	0.0850 to 0.115	99.5	70.0 to 130	0.913	20.0
BD18588	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.109	0.110	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.913	20.0
BD18589	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.122	0.123	0.0977	0.0850 to 0.115	104	70.0 to 130	0.816	20.0
BD18588	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.125	0.125	0.104	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD18589	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0999	0.0966	0.0958	0.0850 to 0.115	99.9	70.0 to 130	3.36	20.0
BD18588	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0936	0.0909	0.0910	0.0850 to 0.115	93.6	70.0 to 130	2.93	20.0
BD18589	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	2.04	2.06	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18588	Boron, Total	mg/L	0.000175	0.0650	1.00	2.05	2.04	1.01	0.850 to 1.15	103	70.0 to 130	0.489	20.0
BD18589	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0960	0.0969	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.933	20.0
BD18588	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0949	0.0956	0.0981	0.0850 to 0.115	94.9	70.0 to 130	0.735	20.0
BD18589	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	236	225	5.11	4.25 to 5.75	40.0	70.0 to 130	4.77	20.0
BD18588	Calcium, Total	mg/L	-0.00348	0.152	5.00	224	219	4.95	4.25 to 5.75	180	70.0 to 130	2.26	20.0
BD18588	Chloride	mg/L	0.0181	1.00	40.0	58.0	58.7	10.1	9.00 to 11.0	90.5	80.0 to 120	1.20	20.0
BD18589	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0969	0.0984	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.54	20.0
BD18588	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0983	0.100	0.0994	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD18589	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0986	0.100	0.0974	0.0850 to 0.115	98.6	70.0 to 130	1.41	20.0
BD18588	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0993	0.102	0.101	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BD18588	Fluoride	mg/L	0.0394	0.125	2.50	2.99	3.12	2.58	2.25 to 2.75	104	80.0 to 120	4.26	20.0
BD18589	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	4.00	4.02	0.203	0.170 to 0.230	80.0	70.0 to 130	0.499	20.0
BD18588	Iron, Total	mg/L	-0.00104	0.0176	0.2	4.01	3.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.500	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 12:28
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-7DR

Laboratory ID Number: BD18581

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0985	0.0995	0.0989	0.0850 to 0.115	98.5	70.0 to 130	1.01	20.0
BD18588	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0978	0.100	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BD18589	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.417	0.410	0.203	0.170 to 0.230	106	70.0 to 130	1.69	20.0
BD18588	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.413	0.414	0.200	0.170 to 0.230	105	70.0 to 130	0.242	20.0
BD18589	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	37.4	37.2	5.13	4.25 to 5.75	104	70.0 to 130	0.536	20.0
BD18588	Magnesium, Total	mg/L	0.00562	0.0462	5.00	37.2	37.5	5.04	4.25 to 5.75	108	70.0 to 130	0.803	20.0
BD18589	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	1.95	1.91	0.105	0.0850 to 0.115	10.0	70.0 to 130	2.07	20.0
BD18588	Manganese, Total	mg/L	0.0000262	0.00033	0.100	1.96	1.98	0.106	0.0850 to 0.115	130	70.0 to 130	1.02	20.0
BD18588	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00412	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.731	20.0
BD18589	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.302	0.303	0.204	0.170 to 0.230	100	70.0 to 130	0.331	20.0
BD18588	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.303	0.301	0.201	0.170 to 0.230	101	70.0 to 130	0.662	20.0
BD18589	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	20.3	20.5	10.9	8.50 to 11.5	107	70.0 to 130	0.980	20.0
BD18588	Potassium, Total	mg/L	0.0199	0.367	10.0	20.5	21.5	10.7	8.50 to 11.5	108	70.0 to 130	4.76	20.0
BD18589	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.0963	0.0951	0.102	0.0850 to 0.115	96.3	70.0 to 130	1.25	20.0
BD18588	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0969	0.0940	0.0973	0.0850 to 0.115	96.9	70.0 to 130	3.04	20.0
BD18589	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	5.01	4.98	1.05	0.850 to 1.15	106	70.0 to 130	0.601	20.0
BD18588	Silicon, Total	mg/L	0.00016	0.0440	1.00	5.01	5.01	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD18589	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	107	102	5.16	4.25 to 5.75	120	70.0 to 130	4.78	20.0
BD18588	Sodium, Total	mg/L	0.0107	0.0880	5.00	101	97.9	5.11	4.25 to 5.75	118	70.0 to 130	3.12	20.0
BD18588	Sulfate	mg/L	-0.388	2.0	800	1460	1480	19.3	18.0 to 22.0	91.4	80.0 to 120	1.36	20.0
BD18589	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.0974	0.0974	0.0969	0.0850 to 0.115	97.4	70.0 to 130	0.00	20.0
BD18588	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0957	0.0975	0.0983	0.0850 to 0.115	95.7	70.0 to 130	1.86	20.0
BD18583	Total Organic Carbon	mg/L	0.128	1.00	10.0	11.0	11.2	22.8		110	80.0 to 120	1.80	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 12:28
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-7DR

Laboratory ID Number: BD18581

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18581	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.11	0.128	2.13	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BD18582	Solids, Dissolved	mg/L	789	25.0			764	53.0	40.0 to 60.0			2.58	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7SR

Location Code: WMWMILAP
Collected: 10/3/23 13:39
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18582

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 16:29		1.015	0.689	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 13:17		10.15	117	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 13:17		10.15	9.13	mg/L	0.08120	0.406	
* Lithium, Total	10/6/23 13:15	10/6/23 16:29		1.015	0.155	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/11/23 13:17		10.15	49.3	mg/L	0.21315	4.06	
* Molybdenum, Total	10/6/23 13:15	10/6/23 16:29		1.015	0.0291	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 16:29		1	22.0	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 16:29		1.015	10.3	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 13:17		10.15	69.2	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	0.688	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:14		10.15	111	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/11/23 10:14		10.15	8.33	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	0.153	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/11/23 10:14		10.15	45.5	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	0.0297	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 14:32		1	22.0	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	10.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 10:14		10.15	65.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:11		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 17:11		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/6/23 13:15	10/6/23 17:11		1.015	0.00172	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 17:11		1.015	0.0396	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:11		1.015	0.000604	mg/L	0.000068	0.000203	
* Lead, Total	10/6/23 13:15	10/6/23 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/9/23 14:59		5.075	1.45	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7SR

Location Code: WMWMILAP
Collected: 10/3/23 13:39
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18582

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:11		1.015	3.28	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 17:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	0.00172	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	0.0382	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	0.000598	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/9/23 14:06		5.075	1.47	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	3.18	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 21:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 14:53	10/9/23 14:53		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.51	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	177	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	784	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	177	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 16:15	10/9/23 16:15		1	1.96	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-7SR

Location Code: WMWMILAP
Collected: 10/3/23 13:39
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18582

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 15:17	10/5/23 15:17		2	22.5	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 14:46	10/6/23 14:46		1	0.173	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:20	10/12/23 10:20		16	311	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/3/23 13:36	10/3/23 13:36			805.19	uS/cm			FA
pH	10/3/23 13:36	10/3/23 13:36			6.37	SU			FA
Temperature	10/3/23 13:36	10/3/23 13:36			18.48	C			FA
Turbidity	10/3/23 13:36	10/3/23 13:36			1.56	NTU			FA
Sulfide	10/3/23 13:36	10/3/23 13:36			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 13:39
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-7SR

Laboratory ID Number: BD18582

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD18588	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.110	0.113	0.107	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD18589	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0993	0.100	0.0884	0.0850 to 0.115	99.3	70.0 to 130	0.702	20.0
BD18588	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.101	0.101	0.0937	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD18589	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.109	0.110	0.0992	0.0850 to 0.115	99.5	70.0 to 130	0.913	20.0
BD18588	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.109	0.110	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.913	20.0
BD18589	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.122	0.123	0.0977	0.0850 to 0.115	104	70.0 to 130	0.816	20.0
BD18588	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.125	0.125	0.104	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD18589	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0999	0.0966	0.0958	0.0850 to 0.115	99.9	70.0 to 130	3.36	20.0
BD18588	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0936	0.0909	0.0910	0.0850 to 0.115	93.6	70.0 to 130	2.93	20.0
BD18589	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	2.04	2.06	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18588	Boron, Total	mg/L	0.000175	0.0650	1.00	2.05	2.04	1.01	0.850 to 1.15	103	70.0 to 130	0.489	20.0
BD18589	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0960	0.0969	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.933	20.0
BD18588	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0949	0.0956	0.0981	0.0850 to 0.115	94.9	70.0 to 130	0.735	20.0
BD18589	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	236	225	5.11	4.25 to 5.75	40.0	70.0 to 130	4.77	20.0
BD18588	Calcium, Total	mg/L	-0.00348	0.152	5.00	224	219	4.95	4.25 to 5.75	180	70.0 to 130	2.26	20.0
BD18588	Chloride	mg/L	0.0181	1.00	40.0	58.0	58.7	10.1	9.00 to 11.0	90.5	80.0 to 120	1.20	20.0
BD18589	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0969	0.0984	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.54	20.0
BD18588	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0983	0.100	0.0994	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD18589	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0986	0.100	0.0974	0.0850 to 0.115	98.6	70.0 to 130	1.41	20.0
BD18588	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0993	0.102	0.101	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BD18588	Fluoride	mg/L	0.0394	0.125	2.50	2.99	3.12	2.58	2.25 to 2.75	104	80.0 to 120	4.26	20.0
BD18589	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	4.00	4.02	0.203	0.170 to 0.230	80.0	70.0 to 130	0.499	20.0
BD18588	Iron, Total	mg/L	-0.00104	0.0176	0.2	4.01	3.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.500	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 13:39
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-7SR

Laboratory ID Number: BD18582

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BD18589	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0985	0.0995	0.0989	0.0850 to 0.115	98.5	70.0 to 130	1.01	20.0
BD18588	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0978	0.100	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BD18589	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.417	0.410	0.203	0.170 to 0.230	106	70.0 to 130	1.69	20.0
BD18588	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.413	0.414	0.200	0.170 to 0.230	105	70.0 to 130	0.242	20.0
BD18589	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	37.4	37.2	5.13	4.25 to 5.75	104	70.0 to 130	0.536	20.0
BD18588	Magnesium, Total	mg/L	0.00562	0.0462	5.00	37.2	37.5	5.04	4.25 to 5.75	108	70.0 to 130	0.803	20.0
BD18589	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	1.95	1.91	0.105	0.0850 to 0.115	10.0	70.0 to 130	2.07	20.0
BD18588	Manganese, Total	mg/L	0.0000262	0.00033	0.100	1.96	1.98	0.106	0.0850 to 0.115	130	70.0 to 130	1.02	20.0
BD18588	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00412	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.731	20.0
BD18589	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.302	0.303	0.204	0.170 to 0.230	100	70.0 to 130	0.331	20.0
BD18588	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.303	0.301	0.201	0.170 to 0.230	101	70.0 to 130	0.662	20.0
BD18589	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	20.3	20.5	10.9	8.50 to 11.5	107	70.0 to 130	0.980	20.0
BD18588	Potassium, Total	mg/L	0.0199	0.367	10.0	20.5	21.5	10.7	8.50 to 11.5	108	70.0 to 130	4.76	20.0
BD18589	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.0963	0.0951	0.102	0.0850 to 0.115	96.3	70.0 to 130	1.25	20.0
BD18588	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0969	0.0940	0.0973	0.0850 to 0.115	96.9	70.0 to 130	3.04	20.0
BD18589	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	5.01	4.98	1.05	0.850 to 1.15	106	70.0 to 130	0.601	20.0
BD18588	Silicon, Total	mg/L	0.00016	0.0440	1.00	5.01	5.01	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD18589	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	107	102	5.16	4.25 to 5.75	120	70.0 to 130	4.78	20.0
BD18588	Sodium, Total	mg/L	0.0107	0.0880	5.00	101	97.9	5.11	4.25 to 5.75	118	70.0 to 130	3.12	20.0
BD18588	Sulfate	mg/L	-0.388	2.0	800	1460	1480	19.3	18.0 to 22.0	91.4	80.0 to 120	1.36	20.0
BD18589	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.0974	0.0974	0.0969	0.0850 to 0.115	97.4	70.0 to 130	0.00	20.0
BD18588	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0957	0.0975	0.0983	0.0850 to 0.115	95.7	70.0 to 130	1.86	20.0
BD18583	Total Organic Carbon	mg/L	0.128	1.00	10.0	11.0	11.2	22.8		110	80.0 to 120	1.80	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 13:39
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-7SR

Laboratory ID Number: BD18582

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.08	0.070	2.09	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD18582	Solids, Dissolved	mg/L	789	25.0			764	53.0	40.0 to 60.0			2.58	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS

Location Code: WMWMILAP
Collected: 10/3/23 15:14
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18583

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 16:32		1.015	0.334	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 13:20		10.15	78.9	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 13:20		10.15	5.75	mg/L	0.08120	0.406	
* Lithium, Total	10/6/23 13:15	10/6/23 16:32		1.015	0.0379	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 16:32		1.015	21.3	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/6/23 16:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 16:32		1	32.5	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 16:32		1.015	15.2	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/6/23 16:32		1.015	36.6	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 14:35		1.015	0.340	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:17		10.15	78.4	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/11/23 10:17		10.15	5.86	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 14:35		1.015	0.0378	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 14:35		1.015	21.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 14:35		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 14:35		1	32.7	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 14:35		1.015	15.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/6/23 14:35		1.015	37.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 17:15		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/6/23 13:15	10/6/23 17:15		1.015	0.000362	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 17:15		1.015	0.0352	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:15		1.015	0.000185	mg/L	0.000068	0.000203	J
* Lead, Total	10/6/23 13:15	10/6/23 17:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 17:15		1.015	0.308	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS

Location Code: WMWMILAP
Collected: 10/3/23 15:14
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18583

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:15		1.015	1.29	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 17:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	0.000376	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	0.0353	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	0.000191	mg/L	0.000068	0.000203	J
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	0.317	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	1.30	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 21:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 14:55	10/9/23 14:55		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.50	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	80.9	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	497	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	80.8	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 16:33	10/9/23 16:33		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS

Location Code: WMWMILAP
Collected: 10/3/23 15:14
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18583

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 15:18	10/5/23 15:18		2	30.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 14:48	10/6/23 14:48		1	0.0707	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:21	10/12/23 10:21		10	203	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/3/23 15:11	10/3/23 15:11			569.12	uS/cm			FA
pH	10/3/23 15:11	10/3/23 15:11			6.49	SU			FA
Temperature	10/3/23 15:11	10/3/23 15:11			17.93	C			FA
Turbidity	10/3/23 15:11	10/3/23 15:11			1.4	NTU			FA
Sulfide	10/3/23 15:11	10/3/23 15:11			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 15:14
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: BD18583

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD18588	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.110	0.113	0.107	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD18589	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0993	0.100	0.0884	0.0850 to 0.115	99.3	70.0 to 130	0.702	20.0
BD18588	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.101	0.101	0.0937	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD18589	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.109	0.110	0.0992	0.0850 to 0.115	99.5	70.0 to 130	0.913	20.0
BD18588	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.109	0.110	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.913	20.0
BD18589	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.122	0.123	0.0977	0.0850 to 0.115	104	70.0 to 130	0.816	20.0
BD18588	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.125	0.125	0.104	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD18589	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0999	0.0966	0.0958	0.0850 to 0.115	99.9	70.0 to 130	3.36	20.0
BD18588	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0936	0.0909	0.0910	0.0850 to 0.115	93.6	70.0 to 130	2.93	20.0
BD18589	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	2.04	2.06	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18588	Boron, Total	mg/L	0.000175	0.0650	1.00	2.05	2.04	1.01	0.850 to 1.15	103	70.0 to 130	0.489	20.0
BD18589	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0960	0.0969	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.933	20.0
BD18588	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0949	0.0956	0.0981	0.0850 to 0.115	94.9	70.0 to 130	0.735	20.0
BD18589	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	236	225	5.11	4.25 to 5.75	40.0	70.0 to 130	4.77	20.0
BD18588	Calcium, Total	mg/L	-0.00348	0.152	5.00	224	219	4.95	4.25 to 5.75	180	70.0 to 130	2.26	20.0
BD18588	Chloride	mg/L	0.0181	1.00	40.0	58.0	58.7	10.1	9.00 to 11.0	90.5	80.0 to 120	1.20	20.0
BD18589	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0969	0.0984	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.54	20.0
BD18588	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0983	0.100	0.0994	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD18589	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0986	0.100	0.0974	0.0850 to 0.115	98.6	70.0 to 130	1.41	20.0
BD18588	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0993	0.102	0.101	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BD18588	Fluoride	mg/L	0.0394	0.125	2.50	2.99	3.12	2.58	2.25 to 2.75	104	80.0 to 120	4.26	20.0
BD18589	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	4.00	4.02	0.203	0.170 to 0.230	80.0	70.0 to 130	0.499	20.0
BD18588	Iron, Total	mg/L	-0.00104	0.0176	0.2	4.01	3.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.500	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 15:14
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: BD18583

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0985	0.0995	0.0989	0.0850 to 0.115	98.5	70.0 to 130	1.01	20.0
BD18588	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0978	0.100	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BD18589	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.417	0.410	0.203	0.170 to 0.230	106	70.0 to 130	1.69	20.0
BD18588	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.413	0.414	0.200	0.170 to 0.230	105	70.0 to 130	0.242	20.0
BD18589	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	37.4	37.2	5.13	4.25 to 5.75	104	70.0 to 130	0.536	20.0
BD18588	Magnesium, Total	mg/L	0.00562	0.0462	5.00	37.2	37.5	5.04	4.25 to 5.75	108	70.0 to 130	0.803	20.0
BD18589	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	1.95	1.91	0.105	0.0850 to 0.115	10.0	70.0 to 130	2.07	20.0
BD18588	Manganese, Total	mg/L	0.0000262	0.00033	0.100	1.96	1.98	0.106	0.0850 to 0.115	130	70.0 to 130	1.02	20.0
BD18588	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00412	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.731	20.0
BD18589	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.302	0.303	0.204	0.170 to 0.230	100	70.0 to 130	0.331	20.0
BD18588	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.303	0.301	0.201	0.170 to 0.230	101	70.0 to 130	0.662	20.0
BD18589	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	20.3	20.5	10.9	8.50 to 11.5	107	70.0 to 130	0.980	20.0
BD18588	Potassium, Total	mg/L	0.0199	0.367	10.0	20.5	21.5	10.7	8.50 to 11.5	108	70.0 to 130	4.76	20.0
BD18589	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.0963	0.0951	0.102	0.0850 to 0.115	96.3	70.0 to 130	1.25	20.0
BD18588	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0969	0.0940	0.0973	0.0850 to 0.115	96.9	70.0 to 130	3.04	20.0
BD18589	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	5.01	4.98	1.05	0.850 to 1.15	106	70.0 to 130	0.601	20.0
BD18588	Silicon, Total	mg/L	0.00016	0.0440	1.00	5.01	5.01	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD18589	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	107	102	5.16	4.25 to 5.75	120	70.0 to 130	4.78	20.0
BD18588	Sodium, Total	mg/L	0.0107	0.0880	5.00	101	97.9	5.11	4.25 to 5.75	118	70.0 to 130	3.12	20.0
BD18588	Sulfate	mg/L	-0.388	2.0	800	1460	1480	19.3	18.0 to 22.0	91.4	80.0 to 120	1.36	20.0
BD18589	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.0974	0.0974	0.0969	0.0850 to 0.115	97.4	70.0 to 130	0.00	20.0
BD18588	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0957	0.0975	0.0983	0.0850 to 0.115	95.7	70.0 to 130	1.86	20.0
BD18583	Total Organic Carbon	mg/L	0.128	1.00	10.0	11.0	11.2	22.8		110	80.0 to 120	1.80	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 15:14
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-20HS

Laboratory ID Number: BD18583

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.08	0.070	2.09	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD18592	Solids, Dissolved	mg/L	789	25.0			1130	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS Dup

Location Code: WMWMILAP
Collected: 10/3/23 15:14
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18584

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 16:35		1.015	0.334	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 13:23		10.15	80.3	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 13:23		10.15	5.88	mg/L	0.08120	0.406	
* Lithium, Total	10/6/23 13:15	10/6/23 16:35		1.015	0.0374	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 16:35		1.015	21.4	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/6/23 16:35		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 16:35		1	32.5	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 16:35		1.015	15.2	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/6/23 16:35		1.015	36.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	10/6/23 12:10	10/6/23 14:38		1.015	0.340	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:20		10.15	84.2	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/11/23 10:20		10.15	6.22	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 14:38		1.015	0.0381	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 14:38		1.015	21.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 14:38		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 14:38		1	32.7	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 14:38		1.015	15.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/6/23 14:38		1.015	37.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 17:19		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/6/23 13:15	10/6/23 17:19		1.015	0.000356	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 17:19		1.015	0.0356	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:19		1.015	0.000174	mg/L	0.000068	0.000203	J
* Lead, Total	10/6/23 13:15	10/6/23 17:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 17:19		1.015	0.303	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS Dup

Location Code: WMWMLAP
Collected: 10/3/23 15:14
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18584

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:19		1.015	1.29	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 17:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	0.000401	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	0.0354	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	0.000196	mg/L	0.000068	0.000203	J
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	0.315	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	1.29	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 14:56	10/9/23 14:56		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.51	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	81.5	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	496	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	81.3	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 17:48	10/9/23 17:48		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20HS Dup

Location Code: WMWMILAP
Collected: 10/3/23 15:14
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18584

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 15:19	10/5/23 15:19		2	30.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 14:49	10/6/23 14:49		1	0.0712	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:22	10/12/23 10:22		10	204	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/3/23 15:11	10/3/23 15:11			569.12	uS/cm			FA
pH	10/3/23 15:11	10/3/23 15:11			6.49	SU			FA
Temperature	10/3/23 15:11	10/3/23 15:11			17.93	C			FA
Turbidity	10/3/23 15:11	10/3/23 15:11			1.4	NTU			FA
Sulfide	10/3/23 15:11	10/3/23 15:11			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 15:14
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-20HS Dup

Laboratory ID Number: BD18584

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD18588	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.110	0.113	0.107	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD18589	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0993	0.100	0.0884	0.0850 to 0.115	99.3	70.0 to 130	0.702	20.0
BD18588	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.101	0.101	0.0937	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD18589	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.109	0.110	0.0992	0.0850 to 0.115	99.5	70.0 to 130	0.913	20.0
BD18588	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.109	0.110	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.913	20.0
BD18589	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.122	0.123	0.0977	0.0850 to 0.115	104	70.0 to 130	0.816	20.0
BD18588	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.125	0.125	0.104	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD18589	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0999	0.0966	0.0958	0.0850 to 0.115	99.9	70.0 to 130	3.36	20.0
BD18588	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0936	0.0909	0.0910	0.0850 to 0.115	93.6	70.0 to 130	2.93	20.0
BD18589	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	2.04	2.06	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18588	Boron, Total	mg/L	0.000175	0.0650	1.00	2.05	2.04	1.01	0.850 to 1.15	103	70.0 to 130	0.489	20.0
BD18589	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0960	0.0969	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.933	20.0
BD18588	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0949	0.0956	0.0981	0.0850 to 0.115	94.9	70.0 to 130	0.735	20.0
BD18589	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	236	225	5.11	4.25 to 5.75	40.0	70.0 to 130	4.77	20.0
BD18588	Calcium, Total	mg/L	-0.00348	0.152	5.00	224	219	4.95	4.25 to 5.75	180	70.0 to 130	2.26	20.0
BD18588	Chloride	mg/L	0.0181	1.00	40.0	58.0	58.7	10.1	9.00 to 11.0	90.5	80.0 to 120	1.20	20.0
BD18589	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0969	0.0984	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.54	20.0
BD18588	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0983	0.100	0.0994	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD18589	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0986	0.100	0.0974	0.0850 to 0.115	98.6	70.0 to 130	1.41	20.0
BD18588	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0993	0.102	0.101	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BD18588	Fluoride	mg/L	0.0394	0.125	2.50	2.99	3.12	2.58	2.25 to 2.75	104	80.0 to 120	4.26	20.0
BD18589	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	4.00	4.02	0.203	0.170 to 0.230	80.0	70.0 to 130	0.499	20.0
BD18588	Iron, Total	mg/L	-0.00104	0.0176	0.2	4.01	3.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.500	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 15:14
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-20HS Dup

Laboratory ID Number: BD18584

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0985	0.0995	0.0989	0.0850 to 0.115	98.5	70.0 to 130	1.01	20.0
BD18588	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0978	0.100	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BD18589	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.417	0.410	0.203	0.170 to 0.230	106	70.0 to 130	1.69	20.0
BD18588	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.413	0.414	0.200	0.170 to 0.230	105	70.0 to 130	0.242	20.0
BD18589	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	37.4	37.2	5.13	4.25 to 5.75	104	70.0 to 130	0.536	20.0
BD18588	Magnesium, Total	mg/L	0.00562	0.0462	5.00	37.2	37.5	5.04	4.25 to 5.75	108	70.0 to 130	0.803	20.0
BD18589	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	1.95	1.91	0.105	0.0850 to 0.115	10.0	70.0 to 130	2.07	20.0
BD18588	Manganese, Total	mg/L	0.0000262	0.00033	0.100	1.96	1.98	0.106	0.0850 to 0.115	130	70.0 to 130	1.02	20.0
BD18588	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00412	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.731	20.0
BD18589	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.302	0.303	0.204	0.170 to 0.230	100	70.0 to 130	0.331	20.0
BD18588	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.303	0.301	0.201	0.170 to 0.230	101	70.0 to 130	0.662	20.0
BD18589	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	20.3	20.5	10.9	8.50 to 11.5	107	70.0 to 130	0.980	20.0
BD18588	Potassium, Total	mg/L	0.0199	0.367	10.0	20.5	21.5	10.7	8.50 to 11.5	108	70.0 to 130	4.76	20.0
BD18589	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.0963	0.0951	0.102	0.0850 to 0.115	96.3	70.0 to 130	1.25	20.0
BD18588	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0969	0.0940	0.0973	0.0850 to 0.115	96.9	70.0 to 130	3.04	20.0
BD18589	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	5.01	4.98	1.05	0.850 to 1.15	106	70.0 to 130	0.601	20.0
BD18588	Silicon, Total	mg/L	0.00016	0.0440	1.00	5.01	5.01	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD18589	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	107	102	5.16	4.25 to 5.75	120	70.0 to 130	4.78	20.0
BD18588	Sodium, Total	mg/L	0.0107	0.0880	5.00	101	97.9	5.11	4.25 to 5.75	118	70.0 to 130	3.12	20.0
BD18588	Sulfate	mg/L	-0.388	2.0	800	1460	1480	19.3	18.0 to 22.0	91.4	80.0 to 120	1.36	20.0
BD18589	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.0974	0.0974	0.0969	0.0850 to 0.115	97.4	70.0 to 130	0.00	20.0
BD18588	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0957	0.0975	0.0983	0.0850 to 0.115	95.7	70.0 to 130	1.86	20.0
BD18593	Total Organic Carbon	mg/L	0.126	1.00	10.0	11.4	12.4	24.8		92.6	80.0 to 120	8.40	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 15:14
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-20HS Dup

Laboratory ID Number: BD18584

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.08	0.070	2.09	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD18592	Solids, Dissolved	mg/L	789	25.0			1130	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-2

Location Code: WMWMILAPFB
Collected: 10/3/23 16:00
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18585

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 16:38		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/6/23 13:15	10/6/23 16:38		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/6/23 13:15	10/6/23 16:38		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/6/23 13:15	10/6/23 16:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/6/23 13:15	10/6/23 16:38		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/6/23 13:15	10/6/23 16:38		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 16:38		1	Not Detected	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 16:38		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/6/23 13:15	10/6/23 16:38		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 14:58	10/9/23 14:58		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	Not Detected	mg/L		25	U

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

Comments: Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-2

Location Code: WMWMILAPFB
Collected: 10/3/23 16:00
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18585

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 18:05	10/9/23 18:05		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 15:07	10/5/23 15:07		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 14:50	10/6/23 14:50		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:09	10/12/23 10:09		1	Not Detected	mg/L	0.6	2	U

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

Comments: Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 10/3/23 16:00
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond Field Blank-2

Laboratory ID Number: BD18585

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18588	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.110	0.113	0.107	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD18588	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.101	0.101	0.0937	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD18588	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.109	0.110	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.913	20.0
BD18588	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.125	0.125	0.104	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD18588	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0936	0.0909	0.0910	0.0850 to 0.115	93.6	70.0 to 130	2.93	20.0
BD18588	Boron, Total	mg/L	0.000175	0.0650	1.00	2.05	2.04	1.01	0.850 to 1.15	103	70.0 to 130	0.489	20.0
BD18588	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0949	0.0956	0.0981	0.0850 to 0.115	94.9	70.0 to 130	0.735	20.0
BD18588	Calcium, Total	mg/L	-0.00348	0.152	5.00	224	219	4.95	4.25 to 5.75	180	70.0 to 130	2.26	20.0
BD18588	Chloride	mg/L	0.0181	1.00	40.0	58.0	58.7	10.1	9.00 to 11.0	90.5	80.0 to 120	1.20	20.0
BD18588	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0983	0.100	0.0994	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD18588	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0993	0.102	0.101	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BD18588	Fluoride	mg/L	0.0394	0.125	2.50	2.99	3.12	2.58	2.25 to 2.75	104	80.0 to 120	4.26	20.0
BD18588	Iron, Total	mg/L	-0.00104	0.0176	0.2	4.01	3.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.500	20.0
BD18588	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0978	0.100	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BD18588	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.413	0.414	0.200	0.170 to 0.230	105	70.0 to 130	0.242	20.0
BD18588	Magnesium, Total	mg/L	0.00562	0.0462	5.00	37.2	37.5	5.04	4.25 to 5.75	108	70.0 to 130	0.803	20.0
BD18588	Manganese, Total	mg/L	0.0000262	0.00033	0.100	1.96	1.98	0.106	0.0850 to 0.115	130	70.0 to 130	1.02	20.0
BD18588	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00412	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.731	20.0
BD18588	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.303	0.301	0.201	0.170 to 0.230	101	70.0 to 130	0.662	20.0
BD18588	Potassium, Total	mg/L	0.0199	0.367	10.0	20.5	21.5	10.7	8.50 to 11.5	108	70.0 to 130	4.76	20.0
BD18588	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0969	0.0940	0.0973	0.0850 to 0.115	96.9	70.0 to 130	3.04	20.0
BD18588	Silicon, Total	mg/L	0.00016	0.0440	1.00	5.01	5.01	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD18588	Sodium, Total	mg/L	0.0107	0.0880	5.00	101	97.9	5.11	4.25 to 5.75	118	70.0 to 130	3.12	20.0
BD18588	Sulfate	mg/L	-0.388	2.0	800	1460	1480	19.3	18.0 to 22.0	91.4	80.0 to 120	1.36	20.0

Comments: Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 10/3/23 16:00
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond Field Blank-2

Laboratory ID Number: BD18585

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD18588	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0957	0.0975	0.0983	0.0850 to 0.115	95.7	70.0 to 130	1.86	20.0
BD18593	Total Organic Carbon	mg/L	0.126	1.00	10.0	11.4	12.4	24.8		92.6	80.0 to 120	8.40	20.0

Comments: Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 10/3/23 16:00

Customer ID:

Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond Field Blank-2

Laboratory ID Number: BD18585

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.08	0.070	2.09	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD18592	Solids, Dissolved	mg/L	789	25.0			1130	53.0	40.0 to 60.0			0.00	10.0

Comments: Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-32H

Location Code: WMWMILAP
Collected: 10/4/23 09:02
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18586

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 16:41		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/6/23 13:15	10/11/23 13:27		10.15	61.2	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/6/23 16:41		1.015	0.250	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 16:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/6/23 13:15	10/6/23 16:41		1.015	12.0	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/6/23 16:41		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 16:41		1	23.1	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 16:41		1.015	10.8	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/6/23 16:41		1.015	19.5	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 14:41		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:23		10.15	71.0	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/6/23 14:41		1.015	0.148	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 14:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 14:41		1.015	11.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 14:41		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 14:41		1	22.7	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 14:41		1.015	10.6	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/6/23 14:41		1.015	18.9	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:26		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 17:26		1.015	0.0105	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/6/23 13:15	10/6/23 17:26		1.015	0.00119	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 17:26		1.015	0.563	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:26		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:26		1.015	0.000107	mg/L	0.000068	0.000203	J
* Lead, Total	10/6/23 13:15	10/6/23 17:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 17:26		1.015	0.0256	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-32H

Location Code: WMWMILAP
Collected: 10/4/23 09:02
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18586

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:26		1.015	1.51	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 17:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	0.00102	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	0.560	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	0.000130	mg/L	0.000068	0.000203	J
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	0.0248	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	1.46	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:00	10/9/23 15:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.49	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	209	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	294	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	207	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	1.78	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 18:20	10/9/23 18:20		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-32H

Location Code: WMWMILAP
Collected: 10/4/23 09:02
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18586

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 15:09	10/5/23 15:09		1	6.34	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 14:51	10/6/23 14:51		1	0.123	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:10	10/12/23 10:10		1	14.1	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/4/23 08:59	10/4/23 08:59			362.81	uS/cm			FA
pH	10/4/23 08:59	10/4/23 08:59			7.24	SU			FA
Temperature	10/4/23 08:59	10/4/23 08:59			18.10	C			FA
Turbidity	10/4/23 08:59	10/4/23 08:59			3.96	NTU			FA
Sulfide	10/4/23 08:59	10/4/23 08:59			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 09:02
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-32H

Laboratory ID Number: BD18586

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD18588	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.110	0.113	0.107	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD18589	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0993	0.100	0.0884	0.0850 to 0.115	99.3	70.0 to 130	0.702	20.0
BD18588	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.101	0.101	0.0937	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD18589	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.109	0.110	0.0992	0.0850 to 0.115	99.5	70.0 to 130	0.913	20.0
BD18588	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.109	0.110	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.913	20.0
BD18589	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.122	0.123	0.0977	0.0850 to 0.115	104	70.0 to 130	0.816	20.0
BD18588	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.125	0.125	0.104	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD18589	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0999	0.0966	0.0958	0.0850 to 0.115	99.9	70.0 to 130	3.36	20.0
BD18588	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0936	0.0909	0.0910	0.0850 to 0.115	93.6	70.0 to 130	2.93	20.0
BD18589	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	2.04	2.06	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18588	Boron, Total	mg/L	0.000175	0.0650	1.00	2.05	2.04	1.01	0.850 to 1.15	103	70.0 to 130	0.489	20.0
BD18589	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0960	0.0969	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.933	20.0
BD18588	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0949	0.0956	0.0981	0.0850 to 0.115	94.9	70.0 to 130	0.735	20.0
BD18589	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	236	225	5.11	4.25 to 5.75	40.0	70.0 to 130	4.77	20.0
BD18588	Calcium, Total	mg/L	-0.00348	0.152	5.00	224	219	4.95	4.25 to 5.75	180	70.0 to 130	2.26	20.0
BD18588	Chloride	mg/L	0.0181	1.00	40.0	58.0	58.7	10.1	9.00 to 11.0	90.5	80.0 to 120	1.20	20.0
BD18589	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0969	0.0984	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.54	20.0
BD18588	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0983	0.100	0.0994	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD18589	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0986	0.100	0.0974	0.0850 to 0.115	98.6	70.0 to 130	1.41	20.0
BD18588	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0993	0.102	0.101	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BD18588	Fluoride	mg/L	0.0394	0.125	2.50	2.99	3.12	2.58	2.25 to 2.75	104	80.0 to 120	4.26	20.0
BD18589	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	4.00	4.02	0.203	0.170 to 0.230	80.0	70.0 to 130	0.499	20.0
BD18588	Iron, Total	mg/L	-0.00104	0.0176	0.2	4.01	3.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.500	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 09:02
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-32H

Laboratory ID Number: BD18586

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0985	0.0995	0.0989	0.0850 to 0.115	98.5	70.0 to 130	1.01	20.0
BD18588	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0978	0.100	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BD18589	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.417	0.410	0.203	0.170 to 0.230	106	70.0 to 130	1.69	20.0
BD18588	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.413	0.414	0.200	0.170 to 0.230	105	70.0 to 130	0.242	20.0
BD18589	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	37.4	37.2	5.13	4.25 to 5.75	104	70.0 to 130	0.536	20.0
BD18588	Magnesium, Total	mg/L	0.00562	0.0462	5.00	37.2	37.5	5.04	4.25 to 5.75	108	70.0 to 130	0.803	20.0
BD18589	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	1.95	1.91	0.105	0.0850 to 0.115	10.0	70.0 to 130	2.07	20.0
BD18588	Manganese, Total	mg/L	0.0000262	0.00033	0.100	1.96	1.98	0.106	0.0850 to 0.115	130	70.0 to 130	1.02	20.0
BD18588	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00412	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.731	20.0
BD18589	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.302	0.303	0.204	0.170 to 0.230	100	70.0 to 130	0.331	20.0
BD18588	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.303	0.301	0.201	0.170 to 0.230	101	70.0 to 130	0.662	20.0
BD18589	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	20.3	20.5	10.9	8.50 to 11.5	107	70.0 to 130	0.980	20.0
BD18588	Potassium, Total	mg/L	0.0199	0.367	10.0	20.5	21.5	10.7	8.50 to 11.5	108	70.0 to 130	4.76	20.0
BD18589	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.0963	0.0951	0.102	0.0850 to 0.115	96.3	70.0 to 130	1.25	20.0
BD18588	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0969	0.0940	0.0973	0.0850 to 0.115	96.9	70.0 to 130	3.04	20.0
BD18589	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	5.01	4.98	1.05	0.850 to 1.15	106	70.0 to 130	0.601	20.0
BD18588	Silicon, Total	mg/L	0.00016	0.0440	1.00	5.01	5.01	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD18589	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	107	102	5.16	4.25 to 5.75	120	70.0 to 130	4.78	20.0
BD18588	Sodium, Total	mg/L	0.0107	0.0880	5.00	101	97.9	5.11	4.25 to 5.75	118	70.0 to 130	3.12	20.0
BD18588	Sulfate	mg/L	-0.388	2.0	800	1460	1480	19.3	18.0 to 22.0	91.4	80.0 to 120	1.36	20.0
BD18589	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.0974	0.0974	0.0969	0.0850 to 0.115	97.4	70.0 to 130	0.00	20.0
BD18588	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0957	0.0975	0.0983	0.0850 to 0.115	95.7	70.0 to 130	1.86	20.0
BD18593	Total Organic Carbon	mg/L	0.126	1.00	10.0	11.4	12.4	24.8		92.6	80.0 to 120	8.40	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 09:02
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-32H

Laboratory ID Number: BD18586

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.08	0.070	2.09	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD18592	Solids, Dissolved	mg/L	789	25.0			1130	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20H

Location Code: WMWMLAP
Collected: 10/4/23 10:55
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18587

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 16:45		1.015	0.881	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 13:30		10.15	217	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 13:30		10.15	4.77	mg/L	0.08120	0.406	
* Lithium, Total	10/6/23 13:15	10/6/23 16:45		1.015	0.214	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/11/23 13:30		10.15	44.7	mg/L	0.21315	4.06	
* Molybdenum, Total	10/6/23 13:15	10/6/23 16:45		1.015	0.0878	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 16:45		1	10.4	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 16:45		1.015	4.84	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 13:30		10.15	109	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 14:45		1.015	0.886	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:27		10.15	255	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/11/23 10:27		10.15	5.65	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 14:45		1.015	0.214	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/11/23 10:27		10.15	51.8	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 14:45		1.015	0.0881	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 14:45		1	10.3	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 14:45		1.015	4.79	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 10:27		10.15	128	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:30		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/6/23 13:15	10/6/23 17:30		1.015	0.00112	mg/L	0.000112	0.000203	
* Aluminum, Total	10/6/23 13:15	10/6/23 17:30		1.015	0.0186	mg/L	0.009135	0.05075	J
* Barium, Total	10/6/23 13:15	10/6/23 17:30		1.015	0.0287	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:30		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:30		1.015	0.00110	mg/L	0.000068	0.000203	
* Lead, Total	10/6/23 13:15	10/6/23 17:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 17:30		1.015	1.25	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20H

Location Code: WMWMILAP
Collected: 10/4/23 10:55
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18587

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:30		1.015	5.39	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 17:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	0.00113	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	0.0268	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	0.000903	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/9/23 14:10		5.075	1.23	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	5.44	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:02	10/9/23 15:02		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.47	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	96.6	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	1230	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	96.3	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 18:34	10/9/23 18:34		1	1.76	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-20H

Location Code: WMWMILAP
Collected: 10/4/23 10:55
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18587

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 15:21	10/5/23 15:21		2	23.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 14:52	10/6/23 14:52		1	0.314	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:24	10/12/23 10:24		40	750	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/4/23 10:52	10/4/23 10:52			1171.73	uS/cm			FA
pH	10/4/23 10:52	10/4/23 10:52			7.20	SU			FA
Temperature	10/4/23 10:52	10/4/23 10:52			20.02	C			FA
Turbidity	10/4/23 10:52	10/4/23 10:52			2.94	NTU			FA
Sulfide	10/4/23 10:52	10/4/23 10:52			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 10:55
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: BD18587

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD18588	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.110	0.113	0.107	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD18589	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0993	0.100	0.0884	0.0850 to 0.115	99.3	70.0 to 130	0.702	20.0
BD18588	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.101	0.101	0.0937	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD18589	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.109	0.110	0.0992	0.0850 to 0.115	99.5	70.0 to 130	0.913	20.0
BD18588	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.109	0.110	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.913	20.0
BD18589	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.122	0.123	0.0977	0.0850 to 0.115	104	70.0 to 130	0.816	20.0
BD18588	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.125	0.125	0.104	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD18589	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0999	0.0966	0.0958	0.0850 to 0.115	99.9	70.0 to 130	3.36	20.0
BD18588	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0936	0.0909	0.0910	0.0850 to 0.115	93.6	70.0 to 130	2.93	20.0
BD18589	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	2.04	2.06	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18588	Boron, Total	mg/L	0.000175	0.0650	1.00	2.05	2.04	1.01	0.850 to 1.15	103	70.0 to 130	0.489	20.0
BD18589	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0960	0.0969	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.933	20.0
BD18588	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0949	0.0956	0.0981	0.0850 to 0.115	94.9	70.0 to 130	0.735	20.0
BD18589	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	236	225	5.11	4.25 to 5.75	40.0	70.0 to 130	4.77	20.0
BD18588	Calcium, Total	mg/L	-0.00348	0.152	5.00	224	219	4.95	4.25 to 5.75	180	70.0 to 130	2.26	20.0
BD18588	Chloride	mg/L	0.0181	1.00	40.0	58.0	58.7	10.1	9.00 to 11.0	90.5	80.0 to 120	1.20	20.0
BD18589	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0969	0.0984	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.54	20.0
BD18588	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0983	0.100	0.0994	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD18589	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0986	0.100	0.0974	0.0850 to 0.115	98.6	70.0 to 130	1.41	20.0
BD18588	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0993	0.102	0.101	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BD18588	Fluoride	mg/L	0.0394	0.125	2.50	2.99	3.12	2.58	2.25 to 2.75	104	80.0 to 120	4.26	20.0
BD18589	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	4.00	4.02	0.203	0.170 to 0.230	80.0	70.0 to 130	0.499	20.0
BD18588	Iron, Total	mg/L	-0.00104	0.0176	0.2	4.01	3.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.500	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 10:55
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: BD18587

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0985	0.0995	0.0989	0.0850 to 0.115	98.5	70.0 to 130	1.01	20.0
BD18588	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0978	0.100	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BD18589	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.417	0.410	0.203	0.170 to 0.230	106	70.0 to 130	1.69	20.0
BD18588	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.413	0.414	0.200	0.170 to 0.230	105	70.0 to 130	0.242	20.0
BD18589	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	37.4	37.2	5.13	4.25 to 5.75	104	70.0 to 130	0.536	20.0
BD18588	Magnesium, Total	mg/L	0.00562	0.0462	5.00	37.2	37.5	5.04	4.25 to 5.75	108	70.0 to 130	0.803	20.0
BD18589	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	1.95	1.91	0.105	0.0850 to 0.115	10.0	70.0 to 130	2.07	20.0
BD18588	Manganese, Total	mg/L	0.0000262	0.00033	0.100	1.96	1.98	0.106	0.0850 to 0.115	130	70.0 to 130	1.02	20.0
BD18588	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00412	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.731	20.0
BD18589	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.302	0.303	0.204	0.170 to 0.230	100	70.0 to 130	0.331	20.0
BD18588	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.303	0.301	0.201	0.170 to 0.230	101	70.0 to 130	0.662	20.0
BD18589	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	20.3	20.5	10.9	8.50 to 11.5	107	70.0 to 130	0.980	20.0
BD18588	Potassium, Total	mg/L	0.0199	0.367	10.0	20.5	21.5	10.7	8.50 to 11.5	108	70.0 to 130	4.76	20.0
BD18589	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.0963	0.0951	0.102	0.0850 to 0.115	96.3	70.0 to 130	1.25	20.0
BD18588	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0969	0.0940	0.0973	0.0850 to 0.115	96.9	70.0 to 130	3.04	20.0
BD18589	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	5.01	4.98	1.05	0.850 to 1.15	106	70.0 to 130	0.601	20.0
BD18588	Silicon, Total	mg/L	0.00016	0.0440	1.00	5.01	5.01	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD18589	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	107	102	5.16	4.25 to 5.75	120	70.0 to 130	4.78	20.0
BD18588	Sodium, Total	mg/L	0.0107	0.0880	5.00	101	97.9	5.11	4.25 to 5.75	118	70.0 to 130	3.12	20.0
BD18588	Sulfate	mg/L	-0.388	2.0	800	1460	1480	19.3	18.0 to 22.0	91.4	80.0 to 120	1.36	20.0
BD18589	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.0974	0.0974	0.0969	0.0850 to 0.115	97.4	70.0 to 130	0.00	20.0
BD18588	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0957	0.0975	0.0983	0.0850 to 0.115	95.7	70.0 to 130	1.86	20.0
BD18593	Total Organic Carbon	mg/L	0.126	1.00	10.0	11.4	12.4	24.8		92.6	80.0 to 120	8.40	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 10:55
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-20H

Laboratory ID Number: BD18587

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.08	0.070	2.09	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD18592	Solids, Dissolved	mg/L	789	25.0			1130	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5

Location Code: WMWMILAP
Collected: 10/4/23 12:15
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18588

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 16:48		1.015	1.02	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 13:33		10.15	215	mg/L	0.70035	4.06	RA
* Iron, Total	10/6/23 13:15	10/6/23 16:48		1.015	3.82	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 16:48		1.015	0.203	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 16:48		1.015	31.8	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/6/23 16:48		1.015	0.101	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 16:48		1	8.45	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 16:48		1.015	3.95	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 13:33		10.15	95.1	mg/L	0.4060	4.06	RA
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 14:48		1.015	1.02	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:30		10.15	239	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/6/23 14:48		1.015	3.87	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 14:48		1.015	0.206	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 14:48		1.015	32.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 14:48		1.015	0.102	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 14:48		1	8.47	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 14:48		1.015	3.96	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 10:30		10.15	104	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:33		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 17:33		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/6/23 13:15	10/6/23 17:33		1.015	0.00930	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 17:33		1.015	0.0189	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/6/23 13:15	10/6/23 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/9/23 15:03		5.075	1.83	mg/L	0.000761	0.005075	RA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5

Location Code: WMWMILAP
Collected: 10/4/23 12:15
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18588

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:33		1.015	9.71	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 17:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	0.00941	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	0.0180	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/9/23 14:14		5.075	1.80	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	9.75	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:04	10/9/23 15:04		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.49	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	87.4	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	1200	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	87.2	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 18:52	10/9/23 18:52		1	1.72	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5

Location Code: WMWMILAP
Collected: 10/4/23 12:15
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18588

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 15:22	10/5/23 15:22		3	21.8	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 14:54	10/6/23 14:54		1	0.397	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:13	10/12/23 10:13		40	729	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/4/23 12:12	10/4/23 12:12			1090.04	uS/cm			FA
pH	10/4/23 12:12	10/4/23 12:12			7.10	SU			FA
Temperature	10/4/23 12:12	10/4/23 12:12			18.65	C			FA
Turbidity	10/4/23 12:12	10/4/23 12:12			2.61	NTU			FA
Sulfide	10/4/23 12:12	10/4/23 12:12			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 12:15
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-5

Laboratory ID Number: BD18588

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD18588	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.110	0.113	0.107	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD18589	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0993	0.100	0.0884	0.0850 to 0.115	99.3	70.0 to 130	0.702	20.0
BD18588	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.101	0.101	0.0937	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD18589	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.109	0.110	0.0992	0.0850 to 0.115	99.5	70.0 to 130	0.913	20.0
BD18588	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.109	0.110	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.913	20.0
BD18589	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.122	0.123	0.0977	0.0850 to 0.115	104	70.0 to 130	0.816	20.0
BD18588	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.125	0.125	0.104	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD18589	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0999	0.0966	0.0958	0.0850 to 0.115	99.9	70.0 to 130	3.36	20.0
BD18588	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0936	0.0909	0.0910	0.0850 to 0.115	93.6	70.0 to 130	2.93	20.0
BD18589	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	2.04	2.06	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18588	Boron, Total	mg/L	0.000175	0.0650	1.00	2.05	2.04	1.01	0.850 to 1.15	103	70.0 to 130	0.489	20.0
BD18589	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0960	0.0969	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.933	20.0
BD18588	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0949	0.0956	0.0981	0.0850 to 0.115	94.9	70.0 to 130	0.735	20.0
BD18589	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	236	225	5.11	4.25 to 5.75	40.0	70.0 to 130	4.77	20.0
BD18588	Calcium, Total	mg/L	-0.00348	0.152	5.00	224	219	4.95	4.25 to 5.75	180	70.0 to 130	2.26	20.0
BD18588	Chloride	mg/L	0.0181	1.00	40.0	58.0	58.7	10.1	9.00 to 11.0	90.5	80.0 to 120	1.20	20.0
BD18589	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0969	0.0984	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.54	20.0
BD18588	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0983	0.100	0.0994	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD18589	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0986	0.100	0.0974	0.0850 to 0.115	98.6	70.0 to 130	1.41	20.0
BD18588	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0993	0.102	0.101	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BD18588	Fluoride	mg/L	0.0394	0.125	2.50	2.99	3.12	2.58	2.25 to 2.75	104	80.0 to 120	4.26	20.0
BD18589	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	4.00	4.02	0.203	0.170 to 0.230	80.0	70.0 to 130	0.499	20.0
BD18588	Iron, Total	mg/L	-0.00104	0.0176	0.2	4.01	3.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.500	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 12:15
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-5

Laboratory ID Number: BD18588

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0985	0.0995	0.0989	0.0850 to 0.115	98.5	70.0 to 130	1.01	20.0
BD18588	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0978	0.100	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BD18589	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.417	0.410	0.203	0.170 to 0.230	106	70.0 to 130	1.69	20.0
BD18588	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.413	0.414	0.200	0.170 to 0.230	105	70.0 to 130	0.242	20.0
BD18589	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	37.4	37.2	5.13	4.25 to 5.75	104	70.0 to 130	0.536	20.0
BD18588	Magnesium, Total	mg/L	0.00562	0.0462	5.00	37.2	37.5	5.04	4.25 to 5.75	108	70.0 to 130	0.803	20.0
BD18589	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	1.95	1.91	0.105	0.0850 to 0.115	10.0	70.0 to 130	2.07	20.0
BD18588	Manganese, Total	mg/L	0.0000262	0.00033	0.100	1.96	1.98	0.106	0.0850 to 0.115	130	70.0 to 130	1.02	20.0
BD18588	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00412	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.731	20.0
BD18589	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.302	0.303	0.204	0.170 to 0.230	100	70.0 to 130	0.331	20.0
BD18588	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.303	0.301	0.201	0.170 to 0.230	101	70.0 to 130	0.662	20.0
BD18589	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	20.3	20.5	10.9	8.50 to 11.5	107	70.0 to 130	0.980	20.0
BD18588	Potassium, Total	mg/L	0.0199	0.367	10.0	20.5	21.5	10.7	8.50 to 11.5	108	70.0 to 130	4.76	20.0
BD18589	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.0963	0.0951	0.102	0.0850 to 0.115	96.3	70.0 to 130	1.25	20.0
BD18588	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0969	0.0940	0.0973	0.0850 to 0.115	96.9	70.0 to 130	3.04	20.0
BD18589	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	5.01	4.98	1.05	0.850 to 1.15	106	70.0 to 130	0.601	20.0
BD18588	Silicon, Total	mg/L	0.00016	0.0440	1.00	5.01	5.01	1.03	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD18589	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	107	102	5.16	4.25 to 5.75	120	70.0 to 130	4.78	20.0
BD18588	Sodium, Total	mg/L	0.0107	0.0880	5.00	101	97.9	5.11	4.25 to 5.75	118	70.0 to 130	3.12	20.0
BD18588	Sulfate	mg/L	-0.388	2.0	800	1460	1480	19.3	18.0 to 22.0	91.4	80.0 to 120	1.36	20.0
BD18589	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.0974	0.0974	0.0969	0.0850 to 0.115	97.4	70.0 to 130	0.00	20.0
BD18588	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0957	0.0975	0.0983	0.0850 to 0.115	95.7	70.0 to 130	1.86	20.0
BD18593	Total Organic Carbon	mg/L	0.126	1.00	10.0	11.4	12.4	24.8		92.6	80.0 to 120	8.40	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 12:15
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-5

Laboratory ID Number: BD18588

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.08	0.070	2.09	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD18592	Solids, Dissolved	mg/L	789	25.0			1130	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5 Dup

Location Code: WMWMILAP
Collected: 10/4/23 12:15
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18589

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:04		1.015	1.02	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 13:42		10.15	228	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 11:55		1.015	3.97	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 17:04		1.015	0.203	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 17:04		1.015	32.2	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/11/23 11:55		1.015	0.105	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:04		1	8.50	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:04		1.015	3.97	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 13:42		10.15	98.9	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	10/6/23 12:10	10/6/23 14:51		1.015	1.02	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:33		10.15	234	mg/L	0.70035	4.06	RA
* Iron, Dissolved	10/6/23 12:10	10/6/23 14:51		1.015	3.84	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 14:51		1.015	0.205	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 14:51		1.015	32.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 14:51		1.015	0.101	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 14:51		1	8.45	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 14:51		1.015	3.95	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 10:33		10.15	101	mg/L	0.4060	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:55		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/6/23 13:15	10/6/23 17:55		1.015	0.00934	mg/L	0.000112	0.000203	
* Aluminum, Total	10/6/23 13:15	10/6/23 17:55		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/6/23 13:15	10/6/23 17:55		1.015	0.0185	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/6/23 13:15	10/6/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/9/23 15:14		5.075	1.85	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5 Dup

Location Code: WMWMLAP
Collected: 10/4/23 12:15
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18589

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:55		1.015	10.1	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 17:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	0.00949	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	0.0178	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/9/23 14:17		5.075	1.94	mg/L	0.000761	0.005075	RA
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	9.59	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:06	10/9/23 15:06		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.50	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	87.1	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	1230	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	86.9	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 19:10	10/9/23 19:10		1	1.68	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-5 Dup

Location Code: WMWMILAP
Collected: 10/4/23 12:15
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18589

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:19	10/5/23 16:19		2	21.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:05	10/6/23 15:05		1	0.434	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:35	10/12/23 10:35		32	707	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/4/23 12:12	10/4/23 12:12			1090.04	uS/cm			FA
pH	10/4/23 12:12	10/4/23 12:12			7.10	SU			FA
Temperature	10/4/23 12:12	10/4/23 12:12			18.65	C			FA
Turbidity	10/4/23 12:12	10/4/23 12:12			2.61	NTU			FA
Sulfide	10/4/23 12:12	10/4/23 12:12			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 12:15
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: BD18589

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD18598	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.149	0.148	0.107	0.0850 to 0.115	109	70.0 to 130	0.673	20.0
BD18589	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0993	0.100	0.0884	0.0850 to 0.115	99.3	70.0 to 130	0.702	20.0
BD18598	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.0966	0.0976	0.0937	0.0850 to 0.115	96.6	70.0 to 130	1.03	20.0
BD18589	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.109	0.110	0.0992	0.0850 to 0.115	99.5	70.0 to 130	0.913	20.0
BD18598	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18589	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.122	0.123	0.0977	0.0850 to 0.115	104	70.0 to 130	0.816	20.0
BD18598	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.209	0.208	0.104	0.0850 to 0.115	108	70.0 to 130	0.480	20.0
BD18589	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0999	0.0966	0.0958	0.0850 to 0.115	99.9	70.0 to 130	3.36	20.0
BD18598	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0943	0.0980	0.0910	0.0850 to 0.115	94.3	70.0 to 130	3.85	20.0
BD18589	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	2.04	2.06	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18598	Boron, Total	mg/L	0.000175	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	101	70.0 to 130	0.889	20.0
BD18589	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0960	0.0969	0.0978	0.0850 to 0.115	96.0	70.0 to 130	0.933	20.0
BD18598	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0952	0.0991	0.0981	0.0850 to 0.115	95.2	70.0 to 130	4.01	20.0
BD18589	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	236	225	5.11	4.25 to 5.75	40.0	70.0 to 130	4.77	20.0
BD18598	Calcium, Total	mg/L	-0.00348	0.152	5.00	9.50	9.22	4.95	4.25 to 5.75	101	70.0 to 130	2.99	20.0
BD18598	Chloride	mg/L	0.0341	1.00	100	243	249	10.0	9.00 to 11.0	96.0	80.0 to 120	2.44	20.0
BD18589	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0969	0.0984	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.54	20.0
BD18598	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0968	0.0976	0.0994	0.0850 to 0.115	96.8	70.0 to 130	0.823	20.0
BD18589	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0986	0.100	0.0974	0.0850 to 0.115	98.6	70.0 to 130	1.41	20.0
BD18598	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0980	0.0993	0.101	0.0850 to 0.115	98.0	70.0 to 130	1.32	20.0
BD18598	Fluoride	mg/L	0.0218	0.125	2.50	2.89	2.85	2.60	2.25 to 2.75	109	80.0 to 120	1.39	20.0
BD18589	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	4.00	4.02	0.203	0.170 to 0.230	80.0	70.0 to 130	0.499	20.0
BD18598	Iron, Total	mg/L	-0.00104	0.0176	0.2	0.247	0.249	0.200	0.170 to 0.230	102	70.0 to 130	0.806	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 12:15
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: BD18589

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18589	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.0985	0.0995	0.0989	0.0850 to 0.115	98.5	70.0 to 130	1.01	20.0
BD18598	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0975	0.100	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.53	20.0
BD18589	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.417	0.410	0.203	0.170 to 0.230	106	70.0 to 130	1.69	20.0
BD18598	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.260	0.261	0.200	0.170 to 0.230	99.8	70.0 to 130	0.384	20.0
BD18589	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	37.4	37.2	5.13	4.25 to 5.75	104	70.0 to 130	0.536	20.0
BD18598	Magnesium, Total	mg/L	0.00562	0.0462	5.00	6.15	6.09	5.04	4.25 to 5.75	98.8	70.0 to 130	0.980	20.0
BD18589	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	1.95	1.91	0.105	0.0850 to 0.115	10.0	70.0 to 130	2.07	20.0
BD18598	Manganese, Total	mg/L	0.0000262	0.00033	0.100	0.113	0.114	0.106	0.0850 to 0.115	102	70.0 to 130	0.881	20.0
BD18598	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.0041	0.00411	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BD18589	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.302	0.303	0.204	0.170 to 0.230	100	70.0 to 130	0.331	20.0
BD18598	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.207	0.208	0.201	0.170 to 0.230	104	70.0 to 130	0.482	20.0
BD18589	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	20.3	20.5	10.9	8.50 to 11.5	107	70.0 to 130	0.980	20.0
BD18598	Potassium, Total	mg/L	0.0199	0.367	10.0	13.3	13.4	10.7	8.50 to 11.5	103	70.0 to 130	0.749	20.0
BD18589	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.0963	0.0951	0.102	0.0850 to 0.115	96.3	70.0 to 130	1.25	20.0
BD18598	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0963	0.0959	0.0973	0.0850 to 0.115	96.3	70.0 to 130	0.416	20.0
BD18589	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	5.01	4.98	1.05	0.850 to 1.15	106	70.0 to 130	0.601	20.0
BD18598	Silicon, Total	mg/L	0.00016	0.0440	1.00	6.13	6.12	1.03	0.850 to 1.15	102	70.0 to 130	0.163	20.0
BD18589	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	107	102	5.16	4.25 to 5.75	120	70.0 to 130	4.78	20.0
BD18598	Sodium, Total	mg/L	0.0107	0.0880	5.00	269	231	5.11	4.25 to 5.75	640	70.0 to 130	15.2	20.0
BD18598	Sulfate	mg/L	0.0139	2.0	20.0	29.2	30.3	19.2	18.0 to 22.0	90.0	80.0 to 120	3.70	20.0
BD18589	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.0974	0.0974	0.0969	0.0850 to 0.115	97.4	70.0 to 130	0.00	20.0
BD18598	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0967	0.0987	0.0983	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BD18593	Total Organic Carbon	mg/L	0.126	1.00	10.0	11.4	12.4	24.8		92.6	80.0 to 120	8.40	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 12:15
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-5 Dup

Laboratory ID Number: BD18589

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.08	0.070	2.09	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD18592	Solids, Dissolved	mg/L	789	25.0			1130	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - PZ-5

Location Code: WMWMILAP
Collected: 10/4/23 13:21
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18590

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:07		1.015	0.255	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/6/23 17:07		1.015	5.67	mg/L	0.070035	0.406	
* Iron, Total	10/6/23 13:15	10/11/23 11:58		1.015	0.0100	mg/L	0.008120	0.0406	J
* Lithium, Total	10/6/23 13:15	10/6/23 17:07		1.015	0.125	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 17:07		1.015	1.99	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/11/23 11:58		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:07		1	9.61	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:07		1.015	4.49	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 13:52		10.15	331	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:07		1.015	0.252	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/6/23 15:07		1.015	5.51	mg/L	0.070035	0.406	
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:07		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:07		1.015	0.126	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 15:07		1.015	1.99	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:07		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:07		1	9.46	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:07		1.015	4.42	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 10:49		10.15	353	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 17:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/6/23 13:15	10/6/23 17:59		1.015	0.000339	mg/L	0.000112	0.000203	
* Aluminum, Total	10/6/23 13:15	10/6/23 17:59		1.015	0.0463	mg/L	0.009135	0.05075	J
* Barium, Total	10/6/23 13:15	10/6/23 17:59		1.015	0.223	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 17:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 17:59		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/6/23 13:15	10/6/23 17:59		1.015	0.000355	mg/L	0.000068	0.000203	
* Manganese, Total	10/6/23 13:15	10/6/23 17:59		1.015	0.0102	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - PZ-5

Location Code: WMWMLAP
Collected: 10/4/23 13:21
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18590

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 17:59		1.015	2.31	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 14:26	11/3/23 17:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	0.0401	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	0.000273	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	0.225	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	0.00990	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	2.42	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/3/23 13:44	11/3/23 14:36		1.015	0.00170	mg/L	0.000508	0.001015	
* Thallium, Dissolved	10/6/23 12:10	10/6/23 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:08	10/9/23 15:08		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.52	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	623	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	890	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	602	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	21.0	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 19:23	10/9/23 19:23		1	2.97	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - PZ-5

Location Code: WMWMILAP
Collected: 10/4/23 13:21
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18590

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:20	10/5/23 16:20		2	27.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:06	10/6/23 15:06		1	2.27	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:36	10/12/23 10:36		1	18.9	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/4/23 13:18	10/4/23 13:18			1193.76	uS/cm			FA
pH	10/4/23 13:18	10/4/23 13:18			8.35	SU			FA
Temperature	10/4/23 13:18	10/4/23 13:18			22.64	C			FA
Turbidity	10/4/23 13:18	10/4/23 13:18			4.11	NTU			FA
Sulfide	10/4/23 13:18	10/4/23 13:18			8	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 13:21
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: BD18590

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.117	0.114	0.105	0.0850 to 0.115	117	70.0 to 130	2.60	20.0
BD18598	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.149	0.148	0.107	0.0850 to 0.115	109	70.0 to 130	0.673	20.0
BD18599	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0935	0.0919	0.0884	0.0850 to 0.115	93.5	70.0 to 130	1.73	20.0
BD18598	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.0966	0.0976	0.0937	0.0850 to 0.115	96.6	70.0 to 130	1.03	20.0
BD18599	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.104	0.102	0.0992	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18598	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18599	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.215	0.212	0.0977	0.0850 to 0.115	105	70.0 to 130	1.41	20.0
BD18598	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.209	0.208	0.104	0.0850 to 0.115	108	70.0 to 130	0.480	20.0
BD18599	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0990	0.0998	0.0958	0.0850 to 0.115	99.0	70.0 to 130	0.805	20.0
BD18598	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0943	0.0980	0.0910	0.0850 to 0.115	94.3	70.0 to 130	3.85	20.0
BD18599	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	1.13	1.13	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD18598	Boron, Total	mg/L	0.000175	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	101	70.0 to 130	0.889	20.0
BD18599	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.100	0.0981	0.0978	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD18598	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0952	0.0991	0.0981	0.0850 to 0.115	95.2	70.0 to 130	4.01	20.0
BD18599	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	9.32	9.16	5.11	4.25 to 5.75	97.6	70.0 to 130	1.73	20.0
BD18598	Calcium, Total	mg/L	-0.00348	0.152	5.00	9.50	9.22	4.95	4.25 to 5.75	101	70.0 to 130	2.99	20.0
BD18598	Chloride	mg/L	0.0341	1.00	100	243	249	10.0	9.00 to 11.0	96.0	80.0 to 120	2.44	20.0
BD18599	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0990	0.0959	0.0986	0.0850 to 0.115	99.0	70.0 to 130	3.18	20.0
BD18598	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0968	0.0976	0.0994	0.0850 to 0.115	96.8	70.0 to 130	0.823	20.0
BD18599	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0994	0.0977	0.0974	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD18598	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0980	0.0993	0.101	0.0850 to 0.115	98.0	70.0 to 130	1.32	20.0
BD18598	Fluoride	mg/L	0.0218	0.125	2.50	2.89	2.85	2.60	2.25 to 2.75	109	80.0 to 120	1.39	20.0
BD18599	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	0.230	0.229	0.203	0.170 to 0.230	99.0	70.0 to 130	0.436	20.0
BD18598	Iron, Total	mg/L	-0.00104	0.0176	0.2	0.247	0.249	0.200	0.170 to 0.230	102	70.0 to 130	0.806	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 13:21
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: BD18590

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BD18599	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18598	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0975	0.100	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.53	20.0
BD18599	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.270	0.270	0.203	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18598	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.260	0.261	0.200	0.170 to 0.230	99.8	70.0 to 130	0.384	20.0
BD18599	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	6.20	6.20	5.13	4.25 to 5.75	99.2	70.0 to 130	0.00	20.0
BD18598	Magnesium, Total	mg/L	0.00562	0.0462	5.00	6.15	6.09	5.04	4.25 to 5.75	98.8	70.0 to 130	0.980	20.0
BD18599	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	0.115	0.111	0.105	0.0850 to 0.115	104	70.0 to 130	3.54	20.0
BD18598	Manganese, Total	mg/L	0.0000262	0.00033	0.100	0.113	0.114	0.106	0.0850 to 0.115	102	70.0 to 130	0.881	20.0
BD18598	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.0041	0.00411	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BD18599	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD18598	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.207	0.208	0.201	0.170 to 0.230	104	70.0 to 130	0.482	20.0
BD18599	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	13.3	13.0	10.9	8.50 to 11.5	103	70.0 to 130	2.28	20.0
BD18598	Potassium, Total	mg/L	0.0199	0.367	10.0	13.3	13.4	10.7	8.50 to 11.5	103	70.0 to 130	0.749	20.0
BD18997	Selenium, Dissolved	mg/L	0.0000133	0.00100	0.100	0.110	0.108	0.106	0.0850 to 0.115	94.7	70.0 to 130	1.83	20.0
BD18590	Selenium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.100	0.105	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18599	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	6.08	6.07	1.05	0.850 to 1.15	107	70.0 to 130	0.165	20.0
BD18598	Silicon, Total	mg/L	0.00016	0.0440	1.00	6.13	6.12	1.03	0.850 to 1.15	102	70.0 to 130	0.163	20.0
BD18599	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	268	268	5.16	4.25 to 5.75	260	70.0 to 130	0.00	20.0
BD18598	Sodium, Total	mg/L	0.0107	0.0880	5.00	269	231	5.11	4.25 to 5.75	640	70.0 to 130	15.2	20.0
BD18598	Sulfate	mg/L	0.0139	2.0	20.0	29.2	30.3	19.2	18.0 to 22.0	90.0	80.0 to 120	3.70	20.0
BD18599	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.102	0.0987	0.0969	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD18598	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0967	0.0987	0.0983	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BD18593	Total Organic Carbon	mg/L	0.126	1.00	10.0	11.4	12.4	24.8		92.6	80.0 to 120	8.40	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 10/4/23 13:21

Customer ID:

Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - PZ-5

Laboratory ID Number: BD18590

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.08	0.070	2.09	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD18592	Solids, Dissolved	mg/L	789	25.0			1130	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-33H

Location Code: WMWMILAP
Collected: 10/4/23 14:57
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18591

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:10		1.015	0.874	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 13:55		10.15	237	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 12:01		1.015	0.940	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 17:10		1.015	0.152	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 17:10		1.015	34.5	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:01		1.015	0.0334	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:10		1	10.1	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:10		1.015	4.74	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 13:55		10.15	62.0	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:10		1.015	0.872	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 10:52		10.15	263	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:10		1.015	0.421	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:10		1.015	0.151	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 15:10		1.015	34.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:10		1.015	0.0367	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:10		1	9.91	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:10		1.015	4.63	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 10:52		10.15	70.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 18:03		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/6/23 13:15	10/6/23 18:03		1.015	0.00289	mg/L	0.000112	0.000203	
* Aluminum, Total	10/6/23 13:15	10/6/23 18:03		1.015	0.0209	mg/L	0.009135	0.05075	J
* Barium, Total	10/6/23 13:15	10/6/23 18:03		1.015	0.0328	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 18:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 18:03		1.015	0.000191	mg/L	0.000068	0.000203	J
* Chromium, Total	10/6/23 13:15	10/6/23 18:03		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 18:03		1.015	0.00722	mg/L	0.000068	0.000203	
* Lead, Total	10/6/23 13:15	10/6/23 18:03		1.015	0.0000993	mg/L	0.000068	0.000203	J
* Manganese, Total	10/6/23 13:15	10/9/23 15:18		5.075	3.71	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-33H

Location Code: WMWMILAP
Collected: 10/4/23 14:57
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18591

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 18:03		1.015	11.9	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 18:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 18:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	0.000960	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	0.00192	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	0.0301	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	0.000326	mg/L	0.000068	0.000203	
* Chromium, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	0.00671	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/9/23 14:29		5.075	3.57	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	11.9	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	0.000949	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	10/6/23 12:10	10/6/23 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:09	10/9/23 15:09		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.53	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	75.8	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	1070	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	75.7	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 19:39	10/9/23 19:39		1	2.39	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
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Certificate Of Analysis

Description: Miller Ash Pond - MW-33H

Location Code: WMWMILAP
Collected: 10/4/23 14:57
Customer ID:
Submittal Date: 10/5/23 11:26

Laboratory ID Number: BD18591

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:18	10/5/23 16:18		10	97.0	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:08	10/6/23 15:08		1	0.222	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:49	10/12/23 10:49		32	523	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/4/23 14:54	10/4/23 14:54			1112.18	uS/cm			FA
pH	10/4/23 14:54	10/4/23 14:54			6.57	SU			FA
Temperature	10/4/23 14:54	10/4/23 14:54			21.33	C			FA
Turbidity	10/4/23 14:54	10/4/23 14:54			5.02	NTU			FA
Sulfide	10/4/23 14:54	10/4/23 14:54			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 14:57
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-33H

Laboratory ID Number: BD18591

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.117	0.114	0.105	0.0850 to 0.115	117	70.0 to 130	2.60	20.0
BD18598	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.149	0.148	0.107	0.0850 to 0.115	109	70.0 to 130	0.673	20.0
BD18599	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0935	0.0919	0.0884	0.0850 to 0.115	93.5	70.0 to 130	1.73	20.0
BD18598	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.0966	0.0976	0.0937	0.0850 to 0.115	96.6	70.0 to 130	1.03	20.0
BD18599	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.104	0.102	0.0992	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18598	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18599	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.215	0.212	0.0977	0.0850 to 0.115	105	70.0 to 130	1.41	20.0
BD18598	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.209	0.208	0.104	0.0850 to 0.115	108	70.0 to 130	0.480	20.0
BD18599	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0990	0.0998	0.0958	0.0850 to 0.115	99.0	70.0 to 130	0.805	20.0
BD18598	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0943	0.0980	0.0910	0.0850 to 0.115	94.3	70.0 to 130	3.85	20.0
BD18599	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	1.13	1.13	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD18598	Boron, Total	mg/L	0.000175	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	101	70.0 to 130	0.889	20.0
BD18599	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.100	0.0981	0.0978	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD18598	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0952	0.0991	0.0981	0.0850 to 0.115	95.2	70.0 to 130	4.01	20.0
BD18599	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	9.32	9.16	5.11	4.25 to 5.75	97.6	70.0 to 130	1.73	20.0
BD18598	Calcium, Total	mg/L	-0.00348	0.152	5.00	9.50	9.22	4.95	4.25 to 5.75	101	70.0 to 130	2.99	20.0
BD18598	Chloride	mg/L	0.0341	1.00	100	243	249	10.0	9.00 to 11.0	96.0	80.0 to 120	2.44	20.0
BD18599	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0990	0.0959	0.0986	0.0850 to 0.115	99.0	70.0 to 130	3.18	20.0
BD18598	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0968	0.0976	0.0994	0.0850 to 0.115	96.8	70.0 to 130	0.823	20.0
BD18599	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0994	0.0977	0.0974	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD18598	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0980	0.0993	0.101	0.0850 to 0.115	98.0	70.0 to 130	1.32	20.0
BD18598	Fluoride	mg/L	0.0218	0.125	2.50	2.89	2.85	2.60	2.25 to 2.75	109	80.0 to 120	1.39	20.0
BD18599	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	0.230	0.229	0.203	0.170 to 0.230	99.0	70.0 to 130	0.436	20.0
BD18598	Iron, Total	mg/L	-0.00104	0.0176	0.2	0.247	0.249	0.200	0.170 to 0.230	102	70.0 to 130	0.806	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 14:57
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-33H

Laboratory ID Number: BD18591

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BD18599	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18598	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0975	0.100	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.53	20.0
BD18599	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.270	0.270	0.203	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18598	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.260	0.261	0.200	0.170 to 0.230	99.8	70.0 to 130	0.384	20.0
BD18599	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	6.20	6.20	5.13	4.25 to 5.75	99.2	70.0 to 130	0.00	20.0
BD18598	Magnesium, Total	mg/L	0.00562	0.0462	5.00	6.15	6.09	5.04	4.25 to 5.75	98.8	70.0 to 130	0.980	20.0
BD18599	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	0.115	0.111	0.105	0.0850 to 0.115	104	70.0 to 130	3.54	20.0
BD18598	Manganese, Total	mg/L	0.0000262	0.00033	0.100	0.113	0.114	0.106	0.0850 to 0.115	102	70.0 to 130	0.881	20.0
BD18598	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.0041	0.00411	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BD18599	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD18598	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.207	0.208	0.201	0.170 to 0.230	104	70.0 to 130	0.482	20.0
BD18599	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	13.3	13.0	10.9	8.50 to 11.5	103	70.0 to 130	2.28	20.0
BD18598	Potassium, Total	mg/L	0.0199	0.367	10.0	13.3	13.4	10.7	8.50 to 11.5	103	70.0 to 130	0.749	20.0
BD18599	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.101	0.0998	0.102	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD18598	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0963	0.0959	0.0973	0.0850 to 0.115	96.3	70.0 to 130	0.416	20.0
BD18599	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	6.08	6.07	1.05	0.850 to 1.15	107	70.0 to 130	0.165	20.0
BD18598	Silicon, Total	mg/L	0.00016	0.0440	1.00	6.13	6.12	1.03	0.850 to 1.15	102	70.0 to 130	0.163	20.0
BD18599	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	268	268	5.16	4.25 to 5.75	260	70.0 to 130	0.00	20.0
BD18598	Sodium, Total	mg/L	0.0107	0.0880	5.00	269	231	5.11	4.25 to 5.75	640	70.0 to 130	15.2	20.0
BD18598	Sulfate	mg/L	0.0139	2.0	20.0	29.2	30.3	19.2	18.0 to 22.0	90.0	80.0 to 120	3.70	20.0
BD18599	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.102	0.0987	0.0969	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD18598	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0967	0.0987	0.0983	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BD18593	Total Organic Carbon	mg/L	0.126	1.00	10.0	11.4	12.4	24.8		92.6	80.0 to 120	8.40	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 14:57
Customer ID:
Delivery Date: 10/5/23 11:26

Description: Miller Ash Pond - MW-33H

Laboratory ID Number: BD18591

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.08	0.070	2.09	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD18592	Solids, Dissolved	mg/L	789	25.0			1130	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-12

Location Code: WMWMILAP
Collected: 10/2/23 13:37
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18592

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:13		1.015	5.12	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/6/23 17:13		1.015	31.2	mg/L	0.070035	0.406	
* Iron, Total	10/6/23 13:15	10/11/23 12:05		1.015	1.81	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 17:13		1.015	0.0552	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 17:13		1.015	18.4	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:05		1.015	0.281	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:13		1	18.9	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:13		1.015	8.83	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 13:58		10.15	320	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:13		1.015	5.17	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/6/23 15:13		1.015	29.0	mg/L	0.070035	0.406	
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:13		1.015	1.80	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:13		1.015	0.0546	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 15:13		1.015	17.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:13		1.015	0.273	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:13		1	16.8	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:13		1.015	7.84	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 10:55		10.15	349	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 18:07		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 18:07		1.015	0.521	mg/L	0.009135	0.05075	
* Arsenic, Total	10/6/23 13:15	10/6/23 18:07		1.015	0.00938	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 18:07		1.015	0.0192	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 18:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 18:07		1.015	0.000606	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/6/23 13:15	10/6/23 18:07		1.015	0.000977	mg/L	0.000068	0.000203	
* Lead, Total	10/6/23 13:15	10/6/23 18:07		1.015	0.000224	mg/L	0.000068	0.000203	
* Manganese, Total	10/6/23 13:15	10/6/23 18:07		1.015	0.379	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-12

Location Code: WMWMILAP
Collected: 10/2/23 13:37
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18592

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 18:07		1.015	6.61	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 18:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	0.0104	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	0.0169	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	0.000704	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	0.382	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	6.85	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	0.000672	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	10/6/23 12:10	10/6/23 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.53	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	252	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:00	10/11/23 08:30		1	1130	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	252	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	10/5/23 16:21	10/5/23 16:21		1	5.08	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:09	10/6/23 15:09		1	1.07	mg/L	0.06	0.125	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-12

Location Code: WMWMILAP
Collected: 10/2/23 13:37
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18592

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:51	10/12/23 10:51		32	493	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/2/23 13:34	10/2/23 13:34			1371.84	uS/cm			FA
pH	10/2/23 13:34	10/2/23 13:34			6.53	SU			FA
Temperature	10/2/23 13:34	10/2/23 13:34			21.89	C			FA
Turbidity	10/2/23 13:34	10/2/23 13:34			2.47	NTU			FA
Sulfide	10/2/23 13:34	10/2/23 13:34			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/2/23 13:37
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-12

Laboratory ID Number: BD18592

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.117	0.114	0.105	0.0850 to 0.115	117	70.0 to 130	2.60	20.0
BD18598	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.149	0.148	0.107	0.0850 to 0.115	109	70.0 to 130	0.673	20.0
BD18599	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0935	0.0919	0.0884	0.0850 to 0.115	93.5	70.0 to 130	1.73	20.0
BD18598	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.0966	0.0976	0.0937	0.0850 to 0.115	96.6	70.0 to 130	1.03	20.0
BD18599	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.104	0.102	0.0992	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18598	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18599	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.215	0.212	0.0977	0.0850 to 0.115	105	70.0 to 130	1.41	20.0
BD18598	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.209	0.208	0.104	0.0850 to 0.115	108	70.0 to 130	0.480	20.0
BD18599	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0990	0.0998	0.0958	0.0850 to 0.115	99.0	70.0 to 130	0.805	20.0
BD18598	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0943	0.0980	0.0910	0.0850 to 0.115	94.3	70.0 to 130	3.85	20.0
BD18599	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	1.13	1.13	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD18598	Boron, Total	mg/L	0.000175	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	101	70.0 to 130	0.889	20.0
BD18599	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.100	0.0981	0.0978	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD18598	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0952	0.0991	0.0981	0.0850 to 0.115	95.2	70.0 to 130	4.01	20.0
BD18599	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	9.32	9.16	5.11	4.25 to 5.75	97.6	70.0 to 130	1.73	20.0
BD18598	Calcium, Total	mg/L	-0.00348	0.152	5.00	9.50	9.22	4.95	4.25 to 5.75	101	70.0 to 130	2.99	20.0
BD18598	Chloride	mg/L	0.0341	1.00	100	243	249	10.0	9.00 to 11.0	96.0	80.0 to 120	2.44	20.0
BD18599	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0990	0.0959	0.0986	0.0850 to 0.115	99.0	70.0 to 130	3.18	20.0
BD18598	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0968	0.0976	0.0994	0.0850 to 0.115	96.8	70.0 to 130	0.823	20.0
BD18599	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0994	0.0977	0.0974	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD18598	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0980	0.0993	0.101	0.0850 to 0.115	98.0	70.0 to 130	1.32	20.0
BD18598	Fluoride	mg/L	0.0218	0.125	2.50	2.89	2.85	2.60	2.25 to 2.75	109	80.0 to 120	1.39	20.0
BD18599	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	0.230	0.229	0.203	0.170 to 0.230	99.0	70.0 to 130	0.436	20.0
BD18598	Iron, Total	mg/L	-0.00104	0.0176	0.2	0.247	0.249	0.200	0.170 to 0.230	102	70.0 to 130	0.806	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/2/23 13:37
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-12

Laboratory ID Number: BD18592

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18599	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18598	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0975	0.100	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.53	20.0
BD18599	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.270	0.270	0.203	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18598	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.260	0.261	0.200	0.170 to 0.230	99.8	70.0 to 130	0.384	20.0
BD18599	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	6.20	6.20	5.13	4.25 to 5.75	99.2	70.0 to 130	0.00	20.0
BD18598	Magnesium, Total	mg/L	0.00562	0.0462	5.00	6.15	6.09	5.04	4.25 to 5.75	98.8	70.0 to 130	0.980	20.0
BD18599	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	0.115	0.111	0.105	0.0850 to 0.115	104	70.0 to 130	3.54	20.0
BD18598	Manganese, Total	mg/L	0.0000262	0.00033	0.100	0.113	0.114	0.106	0.0850 to 0.115	102	70.0 to 130	0.881	20.0
BD18598	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.0041	0.00411	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BD18599	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD18598	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.207	0.208	0.201	0.170 to 0.230	104	70.0 to 130	0.482	20.0
BD18599	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	13.3	13.0	10.9	8.50 to 11.5	103	70.0 to 130	2.28	20.0
BD18598	Potassium, Total	mg/L	0.0199	0.367	10.0	13.3	13.4	10.7	8.50 to 11.5	103	70.0 to 130	0.749	20.0
BD18599	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.101	0.0998	0.102	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD18598	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0963	0.0959	0.0973	0.0850 to 0.115	96.3	70.0 to 130	0.416	20.0
BD18599	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	6.08	6.07	1.05	0.850 to 1.15	107	70.0 to 130	0.165	20.0
BD18598	Silicon, Total	mg/L	0.00016	0.0440	1.00	6.13	6.12	1.03	0.850 to 1.15	102	70.0 to 130	0.163	20.0
BD18599	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	268	268	5.16	4.25 to 5.75	260	70.0 to 130	0.00	20.0
BD18598	Sodium, Total	mg/L	0.0107	0.0880	5.00	269	231	5.11	4.25 to 5.75	640	70.0 to 130	15.2	20.0
BD18598	Sulfate	mg/L	0.0139	2.0	20.0	29.2	30.3	19.2	18.0 to 22.0	90.0	80.0 to 120	3.70	20.0
BD18599	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.102	0.0987	0.0969	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD18598	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0967	0.0987	0.0983	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 10/2/23 13:37

Customer ID:

Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-12

Laboratory ID Number: BD18592

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0		1.18	10.0
BD18592	Solids, Dissolved	mg/L	789	25.0			1130	53.0	40.0 to 60.0		0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Solids (TDS) method blank was outside specification limits. Results for TDS may be biased high.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3S

Location Code: WMWMILAP
Collected: 10/3/23 10:42
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18593

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:16		1.015	0.239	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/6/23 17:16		1.015	5.03	mg/L	0.070035	0.406	
* Iron, Total	10/6/23 13:15	10/11/23 12:08		1.015	0.0372	mg/L	0.008120	0.0406	J
* Lithium, Total	10/6/23 13:15	10/6/23 17:16		1.015	0.203	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 17:16		1.015	1.33	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:08		1.015	0.0668	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:16		1	9.74	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:16		1.015	4.55	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 14:01		10.15	236	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:16		1.015	0.238	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/6/23 15:16		1.015	3.43	mg/L	0.070035	0.406	
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:16		1.015	0.0118	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:16		1.015	0.200	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 15:16		1.015	1.20	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:16		1.015	0.0641	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:16		1	9.72	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:16		1.015	4.54	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 10:58		10.15	240	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 18:10		1.015	0.00289	mg/L	0.000710	0.001015	
* Aluminum, Total	10/6/23 13:15	10/6/23 18:10		1.015	0.0346	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/6/23 13:15	10/6/23 18:10		1.015	0.000607	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 18:10		1.015	0.130	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 18:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 18:10		1.015	0.000450	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/6/23 13:15	10/6/23 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/6/23 13:15	10/6/23 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 18:10		1.015	0.00728	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3S

Location Code: WMWMILAP
Collected: 10/3/23 10:42
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18593

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 18:10		1.015	2.27	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 18:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	0.00220	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	0.0132	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	0.000545	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	0.114	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	0.00536	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	2.10	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	0.000524	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	10/6/23 12:10	10/6/23 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:20	10/9/23 15:20		1	3.37	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.52	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	251	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:35	10/11/23 12:18		1	574	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	234	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	16.3	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 20:18	10/9/23 20:18		1	2.14	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3S

Location Code: WMWMILAP
Collected: 10/3/23 10:42
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18593

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:14	10/5/23 16:14		8	66.6	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:10	10/6/23 15:10		1	0.264	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:52	10/12/23 10:52		8	129	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/3/23 10:39	10/3/23 10:39			964.10	uS/cm			FA
pH	10/3/23 10:39	10/3/23 10:39			8.76	SU			FA
Temperature	10/3/23 10:39	10/3/23 10:39			20.19	C			FA
Turbidity	10/3/23 10:39	10/3/23 10:39			1.71	NTU			FA
Sulfide	10/3/23 10:39	10/3/23 10:39			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 10:42
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: BD18593

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD18599	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.117	0.114	0.105	0.0850 to 0.115	117	70.0 to 130	2.60	20.0	
BD18598	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.149	0.148	0.107	0.0850 to 0.115	109	70.0 to 130	0.673	20.0	
BD18599	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0935	0.0919	0.0884	0.0850 to 0.115	93.5	70.0 to 130	1.73	20.0	
BD18598	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.0966	0.0976	0.0937	0.0850 to 0.115	96.6	70.0 to 130	1.03	20.0	
BD18599	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.104	0.102	0.0992	0.0850 to 0.115	104	70.0 to 130	1.94	20.0	
BD18598	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0	
BD18599	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.215	0.212	0.0977	0.0850 to 0.115	105	70.0 to 130	1.41	20.0	
BD18598	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.209	0.208	0.104	0.0850 to 0.115	108	70.0 to 130	0.480	20.0	
BD18599	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0990	0.0998	0.0958	0.0850 to 0.115	99.0	70.0 to 130	0.805	20.0	
BD18598	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0943	0.0980	0.0910	0.0850 to 0.115	94.3	70.0 to 130	3.85	20.0	
BD18599	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	1.13	1.13	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0	
BD18598	Boron, Total	mg/L	0.000175	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	101	70.0 to 130	0.889	20.0	
BD18599	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.100	0.0981	0.0978	0.0850 to 0.115	100	70.0 to 130	1.92	20.0	
BD18598	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0952	0.0991	0.0981	0.0850 to 0.115	95.2	70.0 to 130	4.01	20.0	
BD18599	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	9.32	9.16	5.11	4.25 to 5.75	97.6	70.0 to 130	1.73	20.0	
BD18598	Calcium, Total	mg/L	-0.00348	0.152	5.00	9.50	9.22	4.95	4.25 to 5.75	101	70.0 to 130	2.99	20.0	
BD18598	Chloride	mg/L	0.0341	1.00	100	243	249	10.0	9.00 to 11.0	96.0	80.0 to 120	2.44	20.0	
BD18599	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0990	0.0959	0.0986	0.0850 to 0.115	99.0	70.0 to 130	3.18	20.0	
BD18598	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0968	0.0976	0.0994	0.0850 to 0.115	96.8	70.0 to 130	0.823	20.0	
BD18599	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0994	0.0977	0.0974	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0	
BD18598	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0980	0.0993	0.101	0.0850 to 0.115	98.0	70.0 to 130	1.32	20.0	
BD18598	Fluoride	mg/L	0.0218	0.125	2.50	2.89	2.85	2.60	2.25 to 2.75	109	80.0 to 120	1.39	20.0	
BD18599	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	0.230	0.229	0.203	0.170 to 0.230	99.0	70.0 to 130	0.436	20.0	
BD18598	Iron, Total	mg/L	-0.00104	0.0176	0.2	0.247	0.249	0.200	0.170 to 0.230	102	70.0 to 130	0.806	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 10:42
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: BD18593

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BD18599	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18598	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0975	0.100	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.53	20.0
BD18599	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.270	0.270	0.203	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18598	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.260	0.261	0.200	0.170 to 0.230	99.8	70.0 to 130	0.384	20.0
BD18599	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	6.20	6.20	5.13	4.25 to 5.75	99.2	70.0 to 130	0.00	20.0
BD18598	Magnesium, Total	mg/L	0.00562	0.0462	5.00	6.15	6.09	5.04	4.25 to 5.75	98.8	70.0 to 130	0.980	20.0
BD18599	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	0.115	0.111	0.105	0.0850 to 0.115	104	70.0 to 130	3.54	20.0
BD18598	Manganese, Total	mg/L	0.0000262	0.00033	0.100	0.113	0.114	0.106	0.0850 to 0.115	102	70.0 to 130	0.881	20.0
BD18598	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.0041	0.00411	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BD18599	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD18598	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.207	0.208	0.201	0.170 to 0.230	104	70.0 to 130	0.482	20.0
BD18599	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	13.3	13.0	10.9	8.50 to 11.5	103	70.0 to 130	2.28	20.0
BD18598	Potassium, Total	mg/L	0.0199	0.367	10.0	13.3	13.4	10.7	8.50 to 11.5	103	70.0 to 130	0.749	20.0
BD18599	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.101	0.0998	0.102	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD18598	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0963	0.0959	0.0973	0.0850 to 0.115	96.3	70.0 to 130	0.416	20.0
BD18599	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	6.08	6.07	1.05	0.850 to 1.15	107	70.0 to 130	0.165	20.0
BD18598	Silicon, Total	mg/L	0.00016	0.0440	1.00	6.13	6.12	1.03	0.850 to 1.15	102	70.0 to 130	0.163	20.0
BD18599	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	268	268	5.16	4.25 to 5.75	260	70.0 to 130	0.00	20.0
BD18598	Sodium, Total	mg/L	0.0107	0.0880	5.00	269	231	5.11	4.25 to 5.75	640	70.0 to 130	15.2	20.0
BD18598	Sulfate	mg/L	0.0139	2.0	20.0	29.2	30.3	19.2	18.0 to 22.0	90.0	80.0 to 120	3.70	20.0
BD18599	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.102	0.0987	0.0969	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD18598	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0967	0.0987	0.0983	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BD18593	Total Organic Carbon	mg/L	0.126	1.00	10.0	11.4	12.4	24.8		92.6	80.0 to 120	8.40	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 10:42
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-3S

Laboratory ID Number: BD18593

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.18	0.201	2.13	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD18599	Solids, Dissolved	mg/L	2.00	25.0			526	52.0	40.0 to 60.0			1.13	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3D

Location Code: WMWMILAP
Collected: 10/3/23 12:00
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18594

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:19		1.015	0.299	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 14:04		10.15	114	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 12:11		1.015	3.33	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 17:19		1.015	0.0938	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 17:19		1.015	26.8	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:11		1.015	0.0267	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:19		1	13.2	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:19		1.015	6.18	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 14:04		10.15	83.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:19		1.015	0.298	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 11:01		10.15	114	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:19		1.015	2.81	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:19		1.015	0.0956	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 15:19		1.015	26.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:19		1.015	0.0257	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:19		1	13.1	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:19		1.015	6.14	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 11:01		10.15	84.4	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 18:14		1.015	0.00447	mg/L	0.000710	0.001015	
* Aluminum, Total	10/6/23 13:15	10/6/23 18:14		1.015	0.0223	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/6/23 13:15	10/6/23 18:14		1.015	0.0136	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 18:14		1.015	0.0346	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 18:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 18:14		1.015	0.000259	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/6/23 13:15	10/6/23 18:14		1.015	0.00359	mg/L	0.000068	0.000203	
* Lead, Total	10/6/23 13:15	10/6/23 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 18:14		1.015	1.16	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3D

Location Code: WMWMILAP
Collected: 10/3/23 12:00
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18594

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 18:14		1.015	5.62	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 18:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	0.0118	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	0.0328	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	0.00351	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	1.16	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	5.60	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 22:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:22	10/9/23 15:22		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.50	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	241	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:35	10/11/23 12:18		1	688	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	241	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 21:35	10/9/23 21:35		1	1.87	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-3D

Location Code: WMWMILAP
Collected: 10/3/23 12:00
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18594

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:22	10/5/23 16:22		1	6.99	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:11	10/6/23 15:11		1	0.272	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:53	10/12/23 10:53		16	292	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/3/23 11:57	10/3/23 11:57			935.13	uS/cm			FA
pH	10/3/23 11:57	10/3/23 11:57			6.50	SU			FA
Temperature	10/3/23 11:57	10/3/23 11:57			20.18	C			FA
Turbidity	10/3/23 11:57	10/3/23 11:57			1.54	NTU			FA
Sulfide	10/3/23 11:57	10/3/23 11:57			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 12:00
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: BD18594

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.117	0.114	0.105	0.0850 to 0.115	117	70.0 to 130	2.60	20.0
BD18598	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.149	0.148	0.107	0.0850 to 0.115	109	70.0 to 130	0.673	20.0
BD18599	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0935	0.0919	0.0884	0.0850 to 0.115	93.5	70.0 to 130	1.73	20.0
BD18598	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.0966	0.0976	0.0937	0.0850 to 0.115	96.6	70.0 to 130	1.03	20.0
BD18599	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.104	0.102	0.0992	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18598	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18599	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.215	0.212	0.0977	0.0850 to 0.115	105	70.0 to 130	1.41	20.0
BD18598	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.209	0.208	0.104	0.0850 to 0.115	108	70.0 to 130	0.480	20.0
BD18599	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0990	0.0998	0.0958	0.0850 to 0.115	99.0	70.0 to 130	0.805	20.0
BD18598	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0943	0.0980	0.0910	0.0850 to 0.115	94.3	70.0 to 130	3.85	20.0
BD18599	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	1.13	1.13	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD18598	Boron, Total	mg/L	0.000175	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	101	70.0 to 130	0.889	20.0
BD18599	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.100	0.0981	0.0978	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD18598	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0952	0.0991	0.0981	0.0850 to 0.115	95.2	70.0 to 130	4.01	20.0
BD18599	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	9.32	9.16	5.11	4.25 to 5.75	97.6	70.0 to 130	1.73	20.0
BD18598	Calcium, Total	mg/L	-0.00348	0.152	5.00	9.50	9.22	4.95	4.25 to 5.75	101	70.0 to 130	2.99	20.0
BD18598	Chloride	mg/L	0.0341	1.00	100	243	249	10.0	9.00 to 11.0	96.0	80.0 to 120	2.44	20.0
BD18599	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0990	0.0959	0.0986	0.0850 to 0.115	99.0	70.0 to 130	3.18	20.0
BD18598	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0968	0.0976	0.0994	0.0850 to 0.115	96.8	70.0 to 130	0.823	20.0
BD18599	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0994	0.0977	0.0974	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD18598	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0980	0.0993	0.101	0.0850 to 0.115	98.0	70.0 to 130	1.32	20.0
BD18598	Fluoride	mg/L	0.0218	0.125	2.50	2.89	2.85	2.60	2.25 to 2.75	109	80.0 to 120	1.39	20.0
BD18599	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	0.230	0.229	0.203	0.170 to 0.230	99.0	70.0 to 130	0.436	20.0
BD18598	Iron, Total	mg/L	-0.00104	0.0176	0.2	0.247	0.249	0.200	0.170 to 0.230	102	70.0 to 130	0.806	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 12:00
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: BD18594

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18598	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0975	0.100	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.53	20.0
BD18599	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.270	0.270	0.203	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18598	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.260	0.261	0.200	0.170 to 0.230	99.8	70.0 to 130	0.384	20.0
BD18599	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	6.20	6.20	5.13	4.25 to 5.75	99.2	70.0 to 130	0.00	20.0
BD18598	Magnesium, Total	mg/L	0.00562	0.0462	5.00	6.15	6.09	5.04	4.25 to 5.75	98.8	70.0 to 130	0.980	20.0
BD18599	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	0.115	0.111	0.105	0.0850 to 0.115	104	70.0 to 130	3.54	20.0
BD18598	Manganese, Total	mg/L	0.0000262	0.00033	0.100	0.113	0.114	0.106	0.0850 to 0.115	102	70.0 to 130	0.881	20.0
BD18598	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.0041	0.00411	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BD18599	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD18598	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.207	0.208	0.201	0.170 to 0.230	104	70.0 to 130	0.482	20.0
BD18599	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	13.3	13.0	10.9	8.50 to 11.5	103	70.0 to 130	2.28	20.0
BD18598	Potassium, Total	mg/L	0.0199	0.367	10.0	13.3	13.4	10.7	8.50 to 11.5	103	70.0 to 130	0.749	20.0
BD18599	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.101	0.0998	0.102	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD18598	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0963	0.0959	0.0973	0.0850 to 0.115	96.3	70.0 to 130	0.416	20.0
BD18599	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	6.08	6.07	1.05	0.850 to 1.15	107	70.0 to 130	0.165	20.0
BD18598	Silicon, Total	mg/L	0.00016	0.0440	1.00	6.13	6.12	1.03	0.850 to 1.15	102	70.0 to 130	0.163	20.0
BD18599	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	268	268	5.16	4.25 to 5.75	260	70.0 to 130	0.00	20.0
BD18598	Sodium, Total	mg/L	0.0107	0.0880	5.00	269	231	5.11	4.25 to 5.75	640	70.0 to 130	15.2	20.0
BD18598	Sulfate	mg/L	0.0139	2.0	20.0	29.2	30.3	19.2	18.0 to 22.0	90.0	80.0 to 120	3.70	20.0
BD18599	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.102	0.0987	0.0969	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD18598	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0967	0.0987	0.0983	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BD18601	Total Organic Carbon	mg/L	0.118	1.00	10.0	10.1	10.2	24.0		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 12:00
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-3D

Laboratory ID Number: BD18594

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.18	0.201	2.13	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD18599	Solids, Dissolved	mg/L	2.00	25.0			526	52.0	40.0 to 60.0			1.13	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-18H

Location Code: WMWMILAP
Collected: 10/3/23 13:45
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18595

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:23		1.015	0.241	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/6/23 17:23		1.015	6.48	mg/L	0.070035	0.406	
* Iron, Total	10/6/23 13:15	10/11/23 12:14		1.015	0.491	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 17:23		1.015	0.147	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 17:23		1.015	2.77	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:14		1.015	0.0132	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:23		1	11.0	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:23		1.015	5.14	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 14:08		10.15	234	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:22		1.015	0.241	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/6/23 15:22		1.015	6.16	mg/L	0.070035	0.406	
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:22		1.015	0.233	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:22		1.015	0.147	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 15:22		1.015	2.61	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:22		1.015	0.0133	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:22		1	10.9	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:22		1.015	5.10	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 11:05		10.15	237	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 18:17		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 18:17		1.015	0.0221	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/6/23 13:15	10/6/23 18:17		1.015	0.000216	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/6/23 18:17		1.015	0.0586	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 18:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 18:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 18:17		1.015	0.000396	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/6/23 13:15	10/6/23 18:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/6/23 13:15	10/6/23 18:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 18:17		1.015	0.0313	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-18H

Location Code: WMWMILAP
Collected: 10/3/23 13:45
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18595

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 18:17		1.015	1.28	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 18:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 18:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	0.000173	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	0.0541	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	0.0286	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	1.28	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 23:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:24	10/9/23 15:24		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.49	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	278	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:35	10/11/23 12:18		1	610	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	277	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	1.11	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 21:50	10/9/23 21:50		1	1.66	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-18H

Location Code: WMWMILAP
Collected: 10/3/23 13:45
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18595

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:24	10/5/23 16:24		1	6.83	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:12	10/6/23 15:12		1	0.267	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:54	10/12/23 10:54		10	207	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/3/23 13:43	10/3/23 13:43			936.07	uS/cm			FA
pH	10/3/23 13:43	10/3/23 13:43			6.72	SU			FA
Temperature	10/3/23 13:43	10/3/23 13:43			22.30	C			FA
Turbidity	10/3/23 13:43	10/3/23 13:43			0.92	NTU			FA
Sulfide	10/3/23 13:43	10/3/23 13:43			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 13:45
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: BD18595

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.117	0.114	0.105	0.0850 to 0.115	117	70.0 to 130	2.60	20.0
BD18598	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.149	0.148	0.107	0.0850 to 0.115	109	70.0 to 130	0.673	20.0
BD18599	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0935	0.0919	0.0884	0.0850 to 0.115	93.5	70.0 to 130	1.73	20.0
BD18598	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.0966	0.0976	0.0937	0.0850 to 0.115	96.6	70.0 to 130	1.03	20.0
BD18599	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.104	0.102	0.0992	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18598	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18599	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.215	0.212	0.0977	0.0850 to 0.115	105	70.0 to 130	1.41	20.0
BD18598	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.209	0.208	0.104	0.0850 to 0.115	108	70.0 to 130	0.480	20.0
BD18599	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0990	0.0998	0.0958	0.0850 to 0.115	99.0	70.0 to 130	0.805	20.0
BD18598	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0943	0.0980	0.0910	0.0850 to 0.115	94.3	70.0 to 130	3.85	20.0
BD18599	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	1.13	1.13	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD18598	Boron, Total	mg/L	0.000175	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	101	70.0 to 130	0.889	20.0
BD18599	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.100	0.0981	0.0978	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD18598	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0952	0.0991	0.0981	0.0850 to 0.115	95.2	70.0 to 130	4.01	20.0
BD18599	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	9.32	9.16	5.11	4.25 to 5.75	97.6	70.0 to 130	1.73	20.0
BD18598	Calcium, Total	mg/L	-0.00348	0.152	5.00	9.50	9.22	4.95	4.25 to 5.75	101	70.0 to 130	2.99	20.0
BD18598	Chloride	mg/L	0.0341	1.00	100	243	249	10.0	9.00 to 11.0	96.0	80.0 to 120	2.44	20.0
BD18599	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0990	0.0959	0.0986	0.0850 to 0.115	99.0	70.0 to 130	3.18	20.0
BD18598	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0968	0.0976	0.0994	0.0850 to 0.115	96.8	70.0 to 130	0.823	20.0
BD18599	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0994	0.0977	0.0974	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD18598	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0980	0.0993	0.101	0.0850 to 0.115	98.0	70.0 to 130	1.32	20.0
BD18598	Fluoride	mg/L	0.0218	0.125	2.50	2.89	2.85	2.60	2.25 to 2.75	109	80.0 to 120	1.39	20.0
BD18599	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	0.230	0.229	0.203	0.170 to 0.230	99.0	70.0 to 130	0.436	20.0
BD18598	Iron, Total	mg/L	-0.00104	0.0176	0.2	0.247	0.249	0.200	0.170 to 0.230	102	70.0 to 130	0.806	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/3/23 13:45
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: BD18595

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BD18599	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18598	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0975	0.100	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.53	20.0
BD18599	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.270	0.270	0.203	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18598	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.260	0.261	0.200	0.170 to 0.230	99.8	70.0 to 130	0.384	20.0
BD18599	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	6.20	6.20	5.13	4.25 to 5.75	99.2	70.0 to 130	0.00	20.0
BD18598	Magnesium, Total	mg/L	0.00562	0.0462	5.00	6.15	6.09	5.04	4.25 to 5.75	98.8	70.0 to 130	0.980	20.0
BD18599	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	0.115	0.111	0.105	0.0850 to 0.115	104	70.0 to 130	3.54	20.0
BD18598	Manganese, Total	mg/L	0.0000262	0.00033	0.100	0.113	0.114	0.106	0.0850 to 0.115	102	70.0 to 130	0.881	20.0
BD18598	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.0041	0.00411	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BD18599	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD18598	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.207	0.208	0.201	0.170 to 0.230	104	70.0 to 130	0.482	20.0
BD18599	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	13.3	13.0	10.9	8.50 to 11.5	103	70.0 to 130	2.28	20.0
BD18598	Potassium, Total	mg/L	0.0199	0.367	10.0	13.3	13.4	10.7	8.50 to 11.5	103	70.0 to 130	0.749	20.0
BD18599	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.101	0.0998	0.102	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD18598	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0963	0.0959	0.0973	0.0850 to 0.115	96.3	70.0 to 130	0.416	20.0
BD18599	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	6.08	6.07	1.05	0.850 to 1.15	107	70.0 to 130	0.165	20.0
BD18598	Silicon, Total	mg/L	0.00016	0.0440	1.00	6.13	6.12	1.03	0.850 to 1.15	102	70.0 to 130	0.163	20.0
BD18599	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	268	268	5.16	4.25 to 5.75	260	70.0 to 130	0.00	20.0
BD18598	Sodium, Total	mg/L	0.0107	0.0880	5.00	269	231	5.11	4.25 to 5.75	640	70.0 to 130	15.2	20.0
BD18598	Sulfate	mg/L	0.0139	2.0	20.0	29.2	30.3	19.2	18.0 to 22.0	90.0	80.0 to 120	3.70	20.0
BD18599	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.102	0.0987	0.0969	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD18598	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0967	0.0987	0.0983	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BD18601	Total Organic Carbon	mg/L	0.118	1.00	10.0	10.1	10.2	24.0		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 10/3/23 13:45

Customer ID:

Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-18H

Laboratory ID Number: BD18595

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.18	0.201	2.13	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD18599	Solids, Dissolved	mg/L	2.00	25.0			526	52.0	40.0 to 60.0			1.13	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23

Location Code: WMWMILAP
Collected: 10/4/23 11:10
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18596

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:26		1.015	0.695	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 14:11		10.15	134	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 12:17		1.015	1.31	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 17:26		1.015	0.838	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/11/23 14:11		10.15	46.6	mg/L	0.21315	4.06	
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:17		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:26		1	16.8	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:26		1.015	7.85	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 14:14		101.5	1580	mg/L	4.060	40.6	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:26		1.015	0.701	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 11:08		10.15	144	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:26		1.015	1.20	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:26		1.015	0.869	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/11/23 11:08		10.15	50.5	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:26		1	16.8	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:26		1.015	7.83	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 11:11		101.5	1660	mg/L	4.060	40.6	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 18:21		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 18:21		1.015	0.0148	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/6/23 13:15	10/6/23 18:21		1.015	0.000572	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/9/23 15:22		92.365	11.7	mg/L	0.046182	0.092365	
* Beryllium, Total	10/6/23 13:15	10/6/23 18:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 18:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 18:21		1.015	0.000340	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/6/23 13:15	10/6/23 18:21		1.015	0.0000886	mg/L	0.000068	0.000203	J
* Lead, Total	10/6/23 13:15	10/6/23 18:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 18:21		1.015	0.0935	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23

Location Code: WMWMILAP
Collected: 10/4/23 11:10
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18596

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 18:21		1.015	6.42	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 18:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 18:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	0.000415	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/9/23 14:33		92.365	11.9	mg/L	0.046182	0.092365	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	0.0000747	mg/L	0.000068	0.000203	J
* Lead, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	0.0911	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	6.16	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 23:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:26	10/9/23 15:26		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.52	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	307	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:35	10/11/23 12:18		1	4700	mg/L		500	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	306	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	1.25	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 22:07	10/9/23 22:07		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23

Location Code: WMWMILAP
Collected: 10/4/23 11:10
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18596

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:28	10/5/23 16:28		160	2630	mg/L	80.00	160	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:14	10/6/23 15:14		1	0.330	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:43	10/12/23 10:43		1	1.62	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/4/23 11:06	10/4/23 11:06			7940.63	uS/cm			FA
pH	10/4/23 11:06	10/4/23 11:06			7.63	SU			FA
Temperature	10/4/23 11:06	10/4/23 11:06			20.33	C			FA
Turbidity	10/4/23 11:06	10/4/23 11:06			1.43	NTU			FA
Sulfide	10/4/23 11:06	10/4/23 11:06			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 11:10
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-23

Laboratory ID Number: BD18596

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18599	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.117	0.114	0.105	0.0850 to 0.115	117	70.0 to 130	2.60	20.0
BD18598	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.149	0.148	0.107	0.0850 to 0.115	109	70.0 to 130	0.673	20.0
BD18599	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0935	0.0919	0.0884	0.0850 to 0.115	93.5	70.0 to 130	1.73	20.0
BD18598	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.0966	0.0976	0.0937	0.0850 to 0.115	96.6	70.0 to 130	1.03	20.0
BD18599	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.104	0.102	0.0992	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18598	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18599	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.215	0.212	0.0977	0.0850 to 0.115	105	70.0 to 130	1.41	20.0
BD18598	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.209	0.208	0.104	0.0850 to 0.115	108	70.0 to 130	0.480	20.0
BD18599	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0990	0.0998	0.0958	0.0850 to 0.115	99.0	70.0 to 130	0.805	20.0
BD18598	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0943	0.0980	0.0910	0.0850 to 0.115	94.3	70.0 to 130	3.85	20.0
BD18599	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	1.13	1.13	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD18598	Boron, Total	mg/L	0.000175	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	101	70.0 to 130	0.889	20.0
BD18599	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.100	0.0981	0.0978	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD18598	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0952	0.0991	0.0981	0.0850 to 0.115	95.2	70.0 to 130	4.01	20.0
BD18599	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	9.32	9.16	5.11	4.25 to 5.75	97.6	70.0 to 130	1.73	20.0
BD18598	Calcium, Total	mg/L	-0.00348	0.152	5.00	9.50	9.22	4.95	4.25 to 5.75	101	70.0 to 130	2.99	20.0
BD18598	Chloride	mg/L	0.0341	1.00	100	243	249	10.0	9.00 to 11.0	96.0	80.0 to 120	2.44	20.0
BD18599	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0990	0.0959	0.0986	0.0850 to 0.115	99.0	70.0 to 130	3.18	20.0
BD18598	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0968	0.0976	0.0994	0.0850 to 0.115	96.8	70.0 to 130	0.823	20.0
BD18599	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0994	0.0977	0.0974	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD18598	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0980	0.0993	0.101	0.0850 to 0.115	98.0	70.0 to 130	1.32	20.0
BD18598	Fluoride	mg/L	0.0218	0.125	2.50	2.89	2.85	2.60	2.25 to 2.75	109	80.0 to 120	1.39	20.0
BD18599	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	0.230	0.229	0.203	0.170 to 0.230	99.0	70.0 to 130	0.436	20.0
BD18598	Iron, Total	mg/L	-0.00104	0.0176	0.2	0.247	0.249	0.200	0.170 to 0.230	102	70.0 to 130	0.806	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 11:10
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-23

Laboratory ID Number: BD18596

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BD18599	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18598	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0975	0.100	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.53	20.0
BD18599	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.270	0.270	0.203	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18598	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.260	0.261	0.200	0.170 to 0.230	99.8	70.0 to 130	0.384	20.0
BD18599	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	6.20	6.20	5.13	4.25 to 5.75	99.2	70.0 to 130	0.00	20.0
BD18598	Magnesium, Total	mg/L	0.00562	0.0462	5.00	6.15	6.09	5.04	4.25 to 5.75	98.8	70.0 to 130	0.980	20.0
BD18599	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	0.115	0.111	0.105	0.0850 to 0.115	104	70.0 to 130	3.54	20.0
BD18598	Manganese, Total	mg/L	0.0000262	0.00033	0.100	0.113	0.114	0.106	0.0850 to 0.115	102	70.0 to 130	0.881	20.0
BD18598	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.0041	0.00411	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BD18599	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD18598	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.207	0.208	0.201	0.170 to 0.230	104	70.0 to 130	0.482	20.0
BD18599	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	13.3	13.0	10.9	8.50 to 11.5	103	70.0 to 130	2.28	20.0
BD18598	Potassium, Total	mg/L	0.0199	0.367	10.0	13.3	13.4	10.7	8.50 to 11.5	103	70.0 to 130	0.749	20.0
BD18599	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.101	0.0998	0.102	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD18598	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0963	0.0959	0.0973	0.0850 to 0.115	96.3	70.0 to 130	0.416	20.0
BD18599	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	6.08	6.07	1.05	0.850 to 1.15	107	70.0 to 130	0.165	20.0
BD18598	Silicon, Total	mg/L	0.00016	0.0440	1.00	6.13	6.12	1.03	0.850 to 1.15	102	70.0 to 130	0.163	20.0
BD18599	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	268	268	5.16	4.25 to 5.75	260	70.0 to 130	0.00	20.0
BD18598	Sodium, Total	mg/L	0.0107	0.0880	5.00	269	231	5.11	4.25 to 5.75	640	70.0 to 130	15.2	20.0
BD18598	Sulfate	mg/L	0.0139	2.0	20.0	29.2	30.3	19.2	18.0 to 22.0	90.0	80.0 to 120	3.70	20.0
BD18599	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.102	0.0987	0.0969	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD18598	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0967	0.0987	0.0983	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BD18601	Total Organic Carbon	mg/L	0.118	1.00	10.0	10.1	10.2	24.0		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 10/4/23 11:10

Customer ID:

Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-23

Laboratory ID Number: BD18596

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.18	0.201	2.13	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD18599	Solids, Dissolved	mg/L	2.00	25.0			526	52.0	40.0 to 60.0			1.13	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23A

Location Code: WMWMILAP
Collected: 10/4/23 12:00
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18597

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:29		1.015	0.640	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/11/23 14:17		10.15	146	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 12:20		1.015	0.334	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 17:29		1.015	0.791	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/11/23 14:17		10.15	49.9	mg/L	0.21315	4.06	
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:20		1.015	0.0137	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:29		1	16.0	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:29		1.015	7.50	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 14:20		101.5	1630	mg/L	4.060	40.6	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:29		1.015	0.639	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/11/23 11:14		10.15	150	mg/L	0.70035	4.06	
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:29		1.015	0.211	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:29		1.015	0.799	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/11/23 11:14		10.15	51.1	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:29		1.015	0.0132	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:29		1	15.9	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:29		1.015	7.44	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 11:17		101.5	1700	mg/L	4.060	40.6	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 18:25		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 18:25		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/6/23 13:15	10/6/23 18:25		1.015	0.00440	mg/L	0.000112	0.000203	
* Barium, Total	10/6/23 13:15	10/9/23 15:25		5.075	2.12	mg/L	0.002538	0.005075	
* Beryllium, Total	10/6/23 13:15	10/6/23 18:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 18:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 18:25		1.015	0.000396	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/6/23 13:15	10/6/23 18:25		1.015	0.000642	mg/L	0.000068	0.000203	
* Lead, Total	10/6/23 13:15	10/6/23 18:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 18:25		1.015	0.0910	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23A

Location Code: WMWMILAP
Collected: 10/4/23 12:00
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18597

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 18:25		1.015	16.0	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 18:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 18:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	0.00331	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/9/23 14:37		5.075	1.70	mg/L	0.002538	0.005075	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	0.000692	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	0.0845	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	16.0	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 23:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:28	10/9/23 15:28		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/13/23 10:45	10/13/23 15:15		1	4.51	SU		2	
* Alkalinity	10/13/23 10:45	10/13/23 15:15		1	253	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:35	10/11/23 12:18		1	4810	mg/L		312.5	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	252	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/13/23 10:45	10/13/23 15:15		1	1.39	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 22:25	10/9/23 22:25		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-23A

Location Code: WMWMILAP
Collected: 10/4/23 12:00
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18597

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:30	10/5/23 16:30		160	2560	mg/L	80.00	160	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:15	10/6/23 15:15		1	0.347	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:55	10/12/23 10:55		3	85.5	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/4/23 11:58	10/4/23 11:58			8083.76	uS/cm			FA
pH	10/4/23 11:58	10/4/23 11:58			7.54	SU			FA
Temperature	10/4/23 11:58	10/4/23 11:58			20.66	C			FA
Turbidity	10/4/23 11:58	10/4/23 11:58			0.62	NTU			FA
Sulfide	10/4/23 11:58	10/4/23 11:58			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 12:00
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-23A

Laboratory ID Number: BD18597

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.117	0.114	0.105	0.0850 to 0.115	117	70.0 to 130	2.60	20.0
BD18598	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.149	0.148	0.107	0.0850 to 0.115	109	70.0 to 130	0.673	20.0
BD18599	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0935	0.0919	0.0884	0.0850 to 0.115	93.5	70.0 to 130	1.73	20.0
BD18598	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.0966	0.0976	0.0937	0.0850 to 0.115	96.6	70.0 to 130	1.03	20.0
BD18599	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.104	0.102	0.0992	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18598	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18599	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.215	0.212	0.0977	0.0850 to 0.115	105	70.0 to 130	1.41	20.0
BD18598	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.209	0.208	0.104	0.0850 to 0.115	108	70.0 to 130	0.480	20.0
BD18599	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0990	0.0998	0.0958	0.0850 to 0.115	99.0	70.0 to 130	0.805	20.0
BD18598	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0943	0.0980	0.0910	0.0850 to 0.115	94.3	70.0 to 130	3.85	20.0
BD18599	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	1.13	1.13	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD18598	Boron, Total	mg/L	0.000175	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	101	70.0 to 130	0.889	20.0
BD18599	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.100	0.0981	0.0978	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD18598	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0952	0.0991	0.0981	0.0850 to 0.115	95.2	70.0 to 130	4.01	20.0
BD18599	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	9.32	9.16	5.11	4.25 to 5.75	97.6	70.0 to 130	1.73	20.0
BD18598	Calcium, Total	mg/L	-0.00348	0.152	5.00	9.50	9.22	4.95	4.25 to 5.75	101	70.0 to 130	2.99	20.0
BD18598	Chloride	mg/L	0.0341	1.00	100	243	249	10.0	9.00 to 11.0	96.0	80.0 to 120	2.44	20.0
BD18599	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0990	0.0959	0.0986	0.0850 to 0.115	99.0	70.0 to 130	3.18	20.0
BD18598	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0968	0.0976	0.0994	0.0850 to 0.115	96.8	70.0 to 130	0.823	20.0
BD18599	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0994	0.0977	0.0974	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD18598	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0980	0.0993	0.101	0.0850 to 0.115	98.0	70.0 to 130	1.32	20.0
BD18598	Fluoride	mg/L	0.0218	0.125	2.50	2.89	2.85	2.60	2.25 to 2.75	109	80.0 to 120	1.39	20.0
BD18599	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	0.230	0.229	0.203	0.170 to 0.230	99.0	70.0 to 130	0.436	20.0
BD18598	Iron, Total	mg/L	-0.00104	0.0176	0.2	0.247	0.249	0.200	0.170 to 0.230	102	70.0 to 130	0.806	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 12:00
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-23A

Laboratory ID Number: BD18597

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18598	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0975	0.100	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.53	20.0
BD18599	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.270	0.270	0.203	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18598	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.260	0.261	0.200	0.170 to 0.230	99.8	70.0 to 130	0.384	20.0
BD18599	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	6.20	6.20	5.13	4.25 to 5.75	99.2	70.0 to 130	0.00	20.0
BD18598	Magnesium, Total	mg/L	0.00562	0.0462	5.00	6.15	6.09	5.04	4.25 to 5.75	98.8	70.0 to 130	0.980	20.0
BD18599	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	0.115	0.111	0.105	0.0850 to 0.115	104	70.0 to 130	3.54	20.0
BD18598	Manganese, Total	mg/L	0.0000262	0.00033	0.100	0.113	0.114	0.106	0.0850 to 0.115	102	70.0 to 130	0.881	20.0
BD18598	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.0041	0.00411	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BD18599	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD18598	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.207	0.208	0.201	0.170 to 0.230	104	70.0 to 130	0.482	20.0
BD18599	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	13.3	13.0	10.9	8.50 to 11.5	103	70.0 to 130	2.28	20.0
BD18598	Potassium, Total	mg/L	0.0199	0.367	10.0	13.3	13.4	10.7	8.50 to 11.5	103	70.0 to 130	0.749	20.0
BD18599	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.101	0.0998	0.102	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD18598	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0963	0.0959	0.0973	0.0850 to 0.115	96.3	70.0 to 130	0.416	20.0
BD18599	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	6.08	6.07	1.05	0.850 to 1.15	107	70.0 to 130	0.165	20.0
BD18598	Silicon, Total	mg/L	0.00016	0.0440	1.00	6.13	6.12	1.03	0.850 to 1.15	102	70.0 to 130	0.163	20.0
BD18599	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	268	268	5.16	4.25 to 5.75	260	70.0 to 130	0.00	20.0
BD18598	Sodium, Total	mg/L	0.0107	0.0880	5.00	269	231	5.11	4.25 to 5.75	640	70.0 to 130	15.2	20.0
BD18598	Sulfate	mg/L	0.0139	2.0	20.0	29.2	30.3	19.2	18.0 to 22.0	90.0	80.0 to 120	3.70	20.0
BD18599	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.102	0.0987	0.0969	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD18598	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0967	0.0987	0.0983	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BD18601	Total Organic Carbon	mg/L	0.118	1.00	10.0	10.1	10.2	24.0		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 12:00
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-23A

Laboratory ID Number: BD18597

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18597	Alkalinity	mg CaCO3/L					256	50.9	45.0 to 55.0			1.18	10.0
BD18601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.18	0.201	2.13	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD18599	Solids, Dissolved	mg/L	2.00	25.0			526	52.0	40.0 to 60.0			1.13	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22I

Location Code: WMWMILAP
Collected: 10/4/23 14:23
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18598

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:32		1.015	0.118	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/6/23 17:32		1.015	4.45	mg/L	0.070035	0.406	
* Iron, Total	10/6/23 13:15	10/11/23 12:23		1.015	0.0432	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 17:32		1.015	0.0605	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 17:32		1.015	1.21	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:23		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:32		1	10.9	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:32		1.015	5.11	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 14:30		10.15	237	mg/L	0.4060	4.06	RA
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:32		1.015	0.118	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/6/23 15:32		1.015	4.67	mg/L	0.070035	0.406	
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:32		1.015	0.0357	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:32		1.015	0.0636	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 15:32		1.015	1.30	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:32		1	10.7	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:32		1.015	5.01	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 11:27		10.15	260	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/6/23 13:15	10/6/23 18:29		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/6/23 13:15	10/6/23 18:29		1.015	0.0403	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/6/23 13:15	10/6/23 18:29		1.015	0.000113	mg/L	0.000112	0.000203	J
* Barium, Total	10/6/23 13:15	10/6/23 18:29		1.015	0.101	mg/L	0.000508	0.001015	
* Beryllium, Total	10/6/23 13:15	10/6/23 18:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/6/23 13:15	10/6/23 18:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/6/23 13:15	10/6/23 18:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/6/23 13:15	10/6/23 18:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/6/23 13:15	10/6/23 18:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/6/23 13:15	10/6/23 18:29		1.015	0.0106	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22I

Location Code: WMWMILAP
Collected: 10/4/23 14:23
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18598

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/6/23 13:15	10/6/23 18:29		1.015	2.99	mg/L	0.169505	0.5075	
* Selenium, Total	10/6/23 13:15	10/6/23 18:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/6/23 13:15	10/6/23 18:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	0.112	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	0.0110	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	2.97	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 23:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:29	10/9/23 15:29		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.53	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	255	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:35	10/11/23 12:18		1	532	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	246	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	9.19	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 22:39	10/9/23 22:39		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22I

Location Code: WMWMILAP
Collected: 10/4/23 14:23
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18598

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:25	10/5/23 16:25		10	147	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:16	10/6/23 15:16		1	0.164	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 10:46	10/12/23 10:46		1	11.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/4/23 14:20	10/4/23 14:20			838.33	uS/cm			FA
pH	10/4/23 14:20	10/4/23 14:20			8.02	SU			FA
Temperature	10/4/23 14:20	10/4/23 14:20			18.70	C			FA
Turbidity	10/4/23 14:20	10/4/23 14:20			1.28	NTU			FA
Sulfide	10/4/23 14:20	10/4/23 14:20			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 14:23
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-22I

Laboratory ID Number: BD18598

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.117	0.114	0.105	0.0850 to 0.115	117	70.0 to 130	2.60	20.0
BD18598	Aluminum, Total	mg/L	-0.000695	0.0198	0.100	0.149	0.148	0.107	0.0850 to 0.115	109	70.0 to 130	0.673	20.0
BD18599	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0935	0.0919	0.0884	0.0850 to 0.115	93.5	70.0 to 130	1.73	20.0
BD18598	Antimony, Total	mg/L	0.000281	0.00100	0.100	0.0966	0.0976	0.0937	0.0850 to 0.115	96.6	70.0 to 130	1.03	20.0
BD18599	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.104	0.102	0.0992	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18598	Arsenic, Total	mg/L	0.0000038	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18599	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.215	0.212	0.0977	0.0850 to 0.115	105	70.0 to 130	1.41	20.0
BD18598	Barium, Total	mg/L	0.0000051	0.00100	0.100	0.209	0.208	0.104	0.0850 to 0.115	108	70.0 to 130	0.480	20.0
BD18599	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0990	0.0998	0.0958	0.0850 to 0.115	99.0	70.0 to 130	0.805	20.0
BD18598	Beryllium, Total	mg/L	0.0000120	0.000880	0.100	0.0943	0.0980	0.0910	0.0850 to 0.115	94.3	70.0 to 130	3.85	20.0
BD18599	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	1.13	1.13	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD18598	Boron, Total	mg/L	0.000175	0.0650	1.00	1.13	1.12	1.01	0.850 to 1.15	101	70.0 to 130	0.889	20.0
BD18599	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.100	0.0981	0.0978	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD18598	Cadmium, Total	mg/L	0.0000086	0.000147	0.100	0.0952	0.0991	0.0981	0.0850 to 0.115	95.2	70.0 to 130	4.01	20.0
BD18599	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	9.32	9.16	5.11	4.25 to 5.75	97.6	70.0 to 130	1.73	20.0
BD18598	Calcium, Total	mg/L	-0.00348	0.152	5.00	9.50	9.22	4.95	4.25 to 5.75	101	70.0 to 130	2.99	20.0
BD18598	Chloride	mg/L	0.0341	1.00	100	243	249	10.0	9.00 to 11.0	96.0	80.0 to 120	2.44	20.0
BD18599	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0990	0.0959	0.0986	0.0850 to 0.115	99.0	70.0 to 130	3.18	20.0
BD18598	Chromium, Total	mg/L	-0.000126	0.000440	0.100	0.0968	0.0976	0.0994	0.0850 to 0.115	96.8	70.0 to 130	0.823	20.0
BD18599	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0994	0.0977	0.0974	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD18598	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.0980	0.0993	0.101	0.0850 to 0.115	98.0	70.0 to 130	1.32	20.0
BD18598	Fluoride	mg/L	0.0218	0.125	2.50	2.89	2.85	2.60	2.25 to 2.75	109	80.0 to 120	1.39	20.0
BD18599	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	0.230	0.229	0.203	0.170 to 0.230	99.0	70.0 to 130	0.436	20.0
BD18598	Iron, Total	mg/L	-0.00104	0.0176	0.2	0.247	0.249	0.200	0.170 to 0.230	102	70.0 to 130	0.806	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 14:23
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-22I

Laboratory ID Number: BD18598

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18599	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18598	Lead, Total	mg/L	0.0000009	0.000147	0.100	0.0975	0.100	0.100	0.0850 to 0.115	97.5	70.0 to 130	2.53	20.0
BD18599	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.270	0.270	0.203	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18598	Lithium, Total	mg/L	-0.000173	0.0154	0.200	0.260	0.261	0.200	0.170 to 0.230	99.8	70.0 to 130	0.384	20.0
BD18599	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	6.20	6.20	5.13	4.25 to 5.75	99.2	70.0 to 130	0.00	20.0
BD18598	Magnesium, Total	mg/L	0.00562	0.0462	5.00	6.15	6.09	5.04	4.25 to 5.75	98.8	70.0 to 130	0.980	20.0
BD18599	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	0.115	0.111	0.105	0.0850 to 0.115	104	70.0 to 130	3.54	20.0
BD18598	Manganese, Total	mg/L	0.0000262	0.00033	0.100	0.113	0.114	0.106	0.0850 to 0.115	102	70.0 to 130	0.881	20.0
BD18598	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.0041	0.00411	0.00412	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BD18599	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD18598	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.207	0.208	0.201	0.170 to 0.230	104	70.0 to 130	0.482	20.0
BD18599	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	13.3	13.0	10.9	8.50 to 11.5	103	70.0 to 130	2.28	20.0
BD18598	Potassium, Total	mg/L	0.0199	0.367	10.0	13.3	13.4	10.7	8.50 to 11.5	103	70.0 to 130	0.749	20.0
BD18599	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.101	0.0998	0.102	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD18598	Selenium, Total	mg/L	0.0000188	0.00100	0.100	0.0963	0.0959	0.0973	0.0850 to 0.115	96.3	70.0 to 130	0.416	20.0
BD18599	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	6.08	6.07	1.05	0.850 to 1.15	107	70.0 to 130	0.165	20.0
BD18598	Silicon, Total	mg/L	0.00016	0.0440	1.00	6.13	6.12	1.03	0.850 to 1.15	102	70.0 to 130	0.163	20.0
BD18599	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	268	268	5.16	4.25 to 5.75	260	70.0 to 130	0.00	20.0
BD18598	Sodium, Total	mg/L	0.0107	0.0880	5.00	269	231	5.11	4.25 to 5.75	640	70.0 to 130	15.2	20.0
BD18598	Sulfate	mg/L	0.0139	2.0	20.0	29.2	30.3	19.2	18.0 to 22.0	90.0	80.0 to 120	3.70	20.0
BD18599	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.102	0.0987	0.0969	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD18598	Thallium, Total	mg/L	-0.0000003	0.000147	0.100	0.0967	0.0987	0.0983	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BD18601	Total Organic Carbon	mg/L	0.118	1.00	10.0	10.1	10.2	24.0		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP

Sample Date: 10/4/23 14:23

Customer ID:

Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-22I

Laboratory ID Number: BD18598

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.18	0.201	2.13	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD18599	Solids, Dissolved	mg/L	2.00	25.0			526	52.0	40.0 to 60.0			1.13	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22I Dup

Location Code: WMWMILAP
Collected: 10/4/23 14:23
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18599

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:54		1.015	0.118	mg/L	0.030000	0.1015	
* Calcium, Total	10/6/23 13:15	10/6/23 17:54		1.015	4.53	mg/L	0.070035	0.406	
* Iron, Total	10/6/23 13:15	10/11/23 12:46		1.015	0.0445	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 17:54		1.015	0.0611	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/6/23 17:54		1.015	1.21	mg/L	0.021315	0.406	
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:46		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:54		1	11.0	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:54		1.015	5.12	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 14:39		10.15	223	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:35		1.015	0.117	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/6/23 12:10	10/6/23 15:35		1.015	4.44	mg/L	0.070035	0.406	
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:35		1.015	0.0320	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:35		1.015	0.0638	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/6/23 15:35		1.015	1.24	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:35		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:35		1	10.7	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:35		1.015	5.01	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 11:30		10.15	255	mg/L	0.4060	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/11/23 14:59	10/11/23 18:44		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/11/23 14:59	10/11/23 18:44		1.015	0.0278	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/11/23 14:59	10/11/23 18:44		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/11/23 14:59	10/16/23 13:17		1.015	0.100	mg/L	0.000508	0.001015	
* Beryllium, Total	10/11/23 14:59	10/11/23 18:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/11/23 14:59	10/11/23 18:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/11/23 14:59	10/11/23 18:44		1.015	0.000227	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/11/23 14:59	10/11/23 18:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/11/23 14:59	10/11/23 18:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/11/23 14:59	10/11/23 18:44		1.015	0.0104	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22I Dup

Location Code: WMWMILAP
Collected: 10/4/23 14:23
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18599

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/11/23 14:59	10/11/23 18:44		1.015	2.82	mg/L	0.169505	0.5075	
* Selenium, Total	10/11/23 14:59	10/11/23 18:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/11/23 14:59	10/11/23 18:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	0.110	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	0.0105	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	2.97	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 23:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:30	10/9/23 15:30		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.50	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	257	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:35	10/11/23 12:18		1	532	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	248	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	9.26	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 22:54	10/9/23 22:54		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22I Dup

Location Code: WMWMILAP
Collected: 10/4/23 14:23
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18599

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:44	10/5/23 16:44		8	144	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:29	10/6/23 15:29		1	0.176	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 12:14	10/12/23 12:14		1	10.8	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/4/23 14:20	10/4/23 14:20			838.33	uS/cm			FA
pH	10/4/23 14:20	10/4/23 14:20			8.02	SU			FA
Temperature	10/4/23 14:20	10/4/23 14:20			18.70	C			FA
Turbidity	10/4/23 14:20	10/4/23 14:20			1.28	NTU			FA
Sulfide	10/4/23 14:20	10/4/23 14:20			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 14:23
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-22I Dup

Laboratory ID Number: BD18599

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Aluminum, Dissolved	mg/L	-0.00204	0.0198	0.100	0.117	0.114	0.105	0.0850 to 0.115	117	70.0 to 130	2.60	20.0
BD18599	Aluminum, Total	mg/L	-0.00111	0.0198	0.100	0.128	0.132	0.0992	0.0850 to 0.115	100	70.0 to 130	3.08	20.0
BD18599	Antimony, Dissolved	mg/L	0.000244	0.00100	0.100	0.0935	0.0919	0.0884	0.0850 to 0.115	93.5	70.0 to 130	1.73	20.0
BD18599	Antimony, Total	mg/L	0.000537	0.00100	0.100	0.117	0.117	0.113	0.0850 to 0.115	117	70.0 to 130	0.00	20.0
BD18599	Arsenic, Dissolved	mg/L	0.0000136	0.000200	0.100	0.104	0.102	0.0992	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD18599	Arsenic, Total	mg/L	-0.0000341	0.000200	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18599	Barium, Dissolved	mg/L	0.0000013	0.00100	0.100	0.215	0.212	0.0977	0.0850 to 0.115	105	70.0 to 130	1.41	20.0
BD18599	Barium, Total	mg/L	-0.0000460	0.00100	0.100	0.201	0.204	0.0985	0.0850 to 0.115	101	70.0 to 130	1.48	20.0
BD18599	Beryllium, Dissolved	mg/L	0.0000064	0.000880	0.100	0.0990	0.0998	0.0958	0.0850 to 0.115	99.0	70.0 to 130	0.805	20.0
BD18599	Beryllium, Total	mg/L	0.0000337	0.000880	0.100	0.100	0.0998	0.101	0.0850 to 0.115	100	70.0 to 130	0.200	20.0
BD18599	Boron, Dissolved	mg/L	-0.000154	0.0650	1.00	1.13	1.13	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD18601	Boron, Total	mg/L	0.00024	0.0650	1.00	0.994	0.993	1.00	0.850 to 1.15	99.4	70.0 to 130	0.101	20.0
BD18599	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.100	0.0981	0.0978	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD18599	Cadmium, Total	mg/L	-0.0000004	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD18599	Calcium, Dissolved	mg/L	-0.00393	0.152	5.00	9.32	9.16	5.11	4.25 to 5.75	97.6	70.0 to 130	1.73	20.0
BD18601	Calcium, Total	mg/L	-0.0198	0.152	5.00	4.91	4.86	4.93	4.25 to 5.75	98.2	70.0 to 130	1.02	20.0
BD18601	Chloride	mg/L	0.0384	1.00	10.0	9.87	9.74	9.98	9.00 to 11.0	98.7	80.0 to 120	1.33	20.0
BD18599	Chromium, Dissolved	mg/L	-0.0000730	0.000440	0.100	0.0990	0.0959	0.0986	0.0850 to 0.115	99.0	70.0 to 130	3.18	20.0
BD18599	Chromium, Total	mg/L	0.0000269	0.000440	0.100	0.0979	0.0997	0.0995	0.0850 to 0.115	97.7	70.0 to 130	1.82	20.0
BD18599	Cobalt, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.0994	0.0977	0.0974	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD18599	Cobalt, Total	mg/L	0.0000041	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD18601	Fluoride	mg/L	0.0196	0.125	2.50	2.60	2.69	2.57	2.25 to 2.75	104	80.0 to 120	3.40	20.0
BD18599	Iron, Dissolved	mg/L	-0.000343	0.0176	0.2	0.230	0.229	0.203	0.170 to 0.230	99.0	70.0 to 130	0.436	20.0
BD18601	Iron, Total	mg/L	0.000769	0.0176	0.2	0.207	0.207	0.208	0.170 to 0.230	104	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 14:23
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-22I Dup

Laboratory ID Number: BD18599

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18599	Lead, Dissolved	mg/L	0.0000003	0.000147	0.100	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD18599	Lead, Total	mg/L	0.0000032	0.000147	0.100	0.0964	0.0999	0.103	0.0850 to 0.115	96.4	70.0 to 130	3.57	20.0
BD18599	Lithium, Dissolved	mg/L	-0.000412	0.0154	0.200	0.270	0.270	0.203	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18601	Lithium, Total	mg/L	0.00009	0.0154	0.200	0.196	0.200	0.198	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0
BD18599	Magnesium, Dissolved	mg/L	0.00216	0.0462	5.00	6.20	6.20	5.13	4.25 to 5.75	99.2	70.0 to 130	0.00	20.0
BD18601	Magnesium, Total	mg/L	0.00967	0.0462	5.00	4.92	4.96	4.94	4.25 to 5.75	98.0	70.0 to 130	0.810	20.0
BD18599	Manganese, Dissolved	mg/L	-0.0000038	0.00033	0.100	0.115	0.111	0.105	0.0850 to 0.115	104	70.0 to 130	3.54	20.0
BD18599	Manganese, Total	mg/L	0.0000114	0.00033	0.100	0.111	0.113	0.104	0.0850 to 0.115	101	70.0 to 130	1.79	20.0
BD18601	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00408	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.245	20.0
BD18599	Molybdenum, Dissolved	mg/L	0.000751	0.0100	0.2	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD18601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.209	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18599	Potassium, Dissolved	mg/L	0.0246	0.367	10.0	13.3	13.0	10.9	8.50 to 11.5	103	70.0 to 130	2.28	20.0
BD18599	Potassium, Total	mg/L	0.0430	0.367	10.0	12.7	12.8	10.1	8.50 to 11.5	98.8	70.0 to 130	0.784	20.0
BD18599	Selenium, Dissolved	mg/L	0.0000311	0.00100	0.100	0.101	0.0998	0.102	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD18599	Selenium, Total	mg/L	0.0000473	0.00100	0.100	0.0937	0.0935	0.0920	0.0850 to 0.115	93.7	70.0 to 130	0.214	20.0
BD18599	Silicon, Dissolved	mg/L	0.000868	0.0440	1.00	6.08	6.07	1.05	0.850 to 1.15	107	70.0 to 130	0.165	20.0
BD18601	Silicon, Total	mg/L	0.00145	0.0440	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18599	Sodium, Dissolved	mg/L	0.0134	0.0880	5.00	268	268	5.16	4.25 to 5.75	260	70.0 to 130	0.00	20.0
BD18601	Sodium, Total	mg/L	0.0168	0.0880	5.00	5.07	5.09	5.06	4.25 to 5.75	101	70.0 to 130	0.394	20.0
BD18967	Sulfate	mg/L	0.0518	2.0	20.0	19.8	19.1	19.5	18.0 to 22.0	99.0	80.0 to 120	3.60	20.0
BD18599	Thallium, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.102	0.0987	0.0969	0.0850 to 0.115	102	70.0 to 130	3.29	20.0
BD18599	Thallium, Total	mg/L	0.0000073	0.000147	0.100	0.0958	0.102	0.104	0.0850 to 0.115	95.8	70.0 to 130	6.27	20.0
BD18601	Total Organic Carbon	mg/L	0.118	1.00	10.0	10.1	10.2	24.0		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 14:23
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-22I Dup

Laboratory ID Number: BD18599

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.18	0.201	2.13	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD18599	Solids, Dissolved	mg/L	2.00	25.0			526	52.0	40.0 to 60.0			1.13	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22S

Location Code: WMWMILAP
Collected: 10/4/23 15:35
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18600

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 17:57		1.015	0.0803	mg/L	0.030000	0.1015	J
* Calcium, Total	10/6/23 13:15	10/11/23 14:42		10.15	136	mg/L	0.70035	4.06	
* Iron, Total	10/6/23 13:15	10/11/23 12:49		1.015	1.92	mg/L	0.008120	0.0406	
* Lithium, Total	10/6/23 13:15	10/6/23 17:57		1.015	0.0798	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/6/23 13:15	10/11/23 14:42		10.15	62.2	mg/L	0.21315	4.06	
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 17:57		1	30.4	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 17:57		1.015	14.2	mg/L	0.02030	0.25375	
* Sodium, Total	10/6/23 13:15	10/11/23 14:42		10.15	109	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/6/23 12:10	10/6/23 15:57		1.015	0.0804	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/6/23 12:10	10/11/23 11:39		10.15	143	mg/L	0.70035	4.06	RA
* Iron, Dissolved	10/6/23 12:10	10/6/23 15:57		1.015	1.80	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/6/23 12:10	10/6/23 15:57		1.015	0.0800	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/6/23 12:10	10/11/23 11:39		10.15	64.7	mg/L	0.21315	4.06	RA
* Molybdenum, Dissolved	10/6/23 12:10	10/6/23 15:57		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/6/23 12:10	10/6/23 15:57		1	30.0	mg/L			
* Silicon, Dissolved	10/6/23 12:10	10/6/23 15:57		1.015	14.0	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/6/23 12:10	10/11/23 11:39		10.15	119	mg/L	0.4060	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/11/23 14:59	10/11/23 18:55		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/11/23 14:59	10/11/23 18:55		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/11/23 14:59	10/11/23 18:55		1.015	0.000182	mg/L	0.000112	0.000203	J
* Barium, Total	10/11/23 14:59	10/16/23 13:28		1.015	0.0472	mg/L	0.000508	0.001015	
* Beryllium, Total	10/11/23 14:59	10/11/23 18:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/11/23 14:59	10/11/23 18:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/11/23 14:59	10/11/23 18:55		1.015	0.000297	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/11/23 14:59	10/11/23 18:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/11/23 14:59	10/11/23 18:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/11/23 14:59	10/11/23 18:55		1.015	0.256	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22S

Location Code: WMWMILAP
Collected: 10/4/23 15:35
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18600

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/11/23 14:59	10/11/23 18:55		1.015	2.07	mg/L	0.169505	0.5075	
* Selenium, Total	10/11/23 14:59	10/11/23 18:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/11/23 14:59	10/11/23 18:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	0.000262	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	0.0487	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	0.255	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	2.14	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/6/23 12:10	10/6/23 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 23:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:30	10/9/23 15:30		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.52	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	243	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:35	10/11/23 12:18		1	833	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	243	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 23:11	10/9/23 23:11		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22S

Location Code: WMWMILAP
Collected: 10/4/23 15:35
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18600

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:45	10/5/23 16:45		16	223	mg/L	8.00	16	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:30	10/6/23 15:30		1	0.133	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 12:15	10/12/23 12:15		10	197	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/4/23 15:32	10/4/23 15:32			1260.32	uS/cm			FA
pH	10/4/23 15:32	10/4/23 15:32			6.75	SU			FA
Temperature	10/4/23 15:32	10/4/23 15:32			17.90	C			FA
Turbidity	10/4/23 15:32	10/4/23 15:32			0.72	NTU			FA
Sulfide	10/4/23 15:32	10/4/23 15:32			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 15:35
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-22S

Laboratory ID Number: BD18600

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18600	Aluminum, Dissolved	mg/L	-0.00172	0.0198	0.100	0.109	0.107	0.109	0.0850 to 0.115	109	70.0 to 130	1.85	20.0
BD18599	Aluminum, Total	mg/L	-0.00111	0.0198	0.100	0.128	0.132	0.0992	0.0850 to 0.115	100	70.0 to 130	3.08	20.0
BD18600	Antimony, Dissolved	mg/L	0.000278	0.00100	0.100	0.0931	0.0925	0.0929	0.0850 to 0.115	93.1	70.0 to 130	0.647	20.0
BD18599	Antimony, Total	mg/L	0.000537	0.00100	0.100	0.117	0.117	0.113	0.0850 to 0.115	117	70.0 to 130	0.00	20.0
BD18600	Arsenic, Dissolved	mg/L	0.0000045	0.000200	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD18599	Arsenic, Total	mg/L	-0.0000341	0.000200	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18600	Barium, Dissolved	mg/L	0.0000432	0.00100	0.100	0.153	0.151	0.105	0.0850 to 0.115	104	70.0 to 130	1.32	20.0
BD18599	Barium, Total	mg/L	-0.0000460	0.00100	0.100	0.201	0.204	0.0985	0.0850 to 0.115	101	70.0 to 130	1.48	20.0
BD18600	Beryllium, Dissolved	mg/L	0.0000116	0.000880	0.100	0.0928	0.0931	0.0963	0.0850 to 0.115	92.8	70.0 to 130	0.323	20.0
BD18599	Beryllium, Total	mg/L	0.0000337	0.000880	0.100	0.100	0.0998	0.101	0.0850 to 0.115	100	70.0 to 130	0.200	20.0
BD18600	Boron, Dissolved	mg/L	0.000026	0.0650	1.00	1.12	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.897	20.0
BD18601	Boron, Total	mg/L	0.00024	0.0650	1.00	0.994	0.993	1.00	0.850 to 1.15	99.4	70.0 to 130	0.101	20.0
BD18600	Cadmium, Dissolved	mg/L	0.0000021	0.000147	0.100	0.0957	0.0983	0.102	0.0850 to 0.115	95.7	70.0 to 130	2.68	20.0
BD18599	Cadmium, Total	mg/L	-0.0000004	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD18600	Calcium, Dissolved	mg/L	-0.00169	0.152	5.00	133	131	4.98	4.25 to 5.75	-200	70.0 to 130	1.52	20.0
BD18601	Calcium, Total	mg/L	-0.0198	0.152	5.00	4.91	4.86	4.93	4.25 to 5.75	98.2	70.0 to 130	1.02	20.0
BD18601	Chloride	mg/L	0.0384	1.00	10.0	9.87	9.74	9.98	9.00 to 11.0	98.7	80.0 to 120	1.33	20.0
BD18600	Chromium, Dissolved	mg/L	-0.000127	0.000440	0.100	0.0984	0.0978	0.101	0.0850 to 0.115	98.4	70.0 to 130	0.612	20.0
BD18599	Chromium, Total	mg/L	0.0000269	0.000440	0.100	0.0979	0.0997	0.0995	0.0850 to 0.115	97.7	70.0 to 130	1.82	20.0
BD18600	Cobalt, Dissolved	mg/L	-0.0000061	0.000147	0.100	0.0974	0.0971	0.102	0.0850 to 0.115	97.4	70.0 to 130	0.308	20.0
BD18599	Cobalt, Total	mg/L	0.0000041	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD18601	Fluoride	mg/L	0.0196	0.125	2.50	2.60	2.69	2.57	2.25 to 2.75	104	80.0 to 120	3.40	20.0
BD18600	Iron, Dissolved	mg/L	-0.000961	0.0176	0.2	1.99	1.99	0.200	0.170 to 0.230	95.0	70.0 to 130	0.00	20.0
BD18601	Iron, Total	mg/L	0.000769	0.0176	0.2	0.207	0.207	0.208	0.170 to 0.230	104	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 15:35
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-22S

Laboratory ID Number: BD18600

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18600	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.101	0.0983	0.104	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BD18599	Lead, Total	mg/L	0.0000032	0.000147	0.100	0.0964	0.0999	0.103	0.0850 to 0.115	96.4	70.0 to 130	3.57	20.0
BD18600	Lithium, Dissolved	mg/L	-0.000172	0.0154	0.200	0.288	0.284	0.201	0.170 to 0.230	104	70.0 to 130	1.40	20.0
BD18601	Lithium, Total	mg/L	0.00009	0.0154	0.200	0.196	0.200	0.198	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0
BD18600	Magnesium, Dissolved	mg/L	0.0183	0.0462	5.00	63.9	62.7	5.09	4.25 to 5.75	-16.0	70.0 to 130	1.90	20.0
BD18601	Magnesium, Total	mg/L	0.00967	0.0462	5.00	4.92	4.96	4.94	4.25 to 5.75	98.0	70.0 to 130	0.810	20.0
BD18600	Manganese, Dissolved	mg/L	0.0000280	0.00033	0.100	0.355	0.355	0.108	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18599	Manganese, Total	mg/L	0.0000114	0.00033	0.100	0.111	0.113	0.104	0.0850 to 0.115	101	70.0 to 130	1.79	20.0
BD18601	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00408	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.245	20.0
BD18600	Molybdenum, Dissolved	mg/L	0.000801	0.0100	0.2	0.204	0.202	0.204	0.170 to 0.230	102	70.0 to 130	0.985	20.0
BD18601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.209	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18600	Potassium, Dissolved	mg/L	0.0333	0.367	10.0	12.5	12.5	10.8	8.50 to 11.5	104	70.0 to 130	0.00	20.0
BD18599	Potassium, Total	mg/L	0.0430	0.367	10.0	12.7	12.8	10.1	8.50 to 11.5	98.8	70.0 to 130	0.784	20.0
BD18600	Selenium, Dissolved	mg/L	0.0000907	0.00100	0.100	0.0980	0.0974	0.0986	0.0850 to 0.115	98.0	70.0 to 130	0.614	20.0
BD18599	Selenium, Total	mg/L	0.0000473	0.00100	0.100	0.0937	0.0935	0.0920	0.0850 to 0.115	93.7	70.0 to 130	0.214	20.0
BD18600	Silicon, Dissolved	mg/L	0.00052	0.0440	1.00	14.8	14.8	1.04	0.850 to 1.15	80.0	70.0 to 130	0.00	20.0
BD18601	Silicon, Total	mg/L	0.00145	0.0440	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18600	Sodium, Dissolved	mg/L	0.0308	0.0880	5.00	113	111	5.15	4.25 to 5.75	-120	70.0 to 130	1.79	20.0
BD18601	Sodium, Total	mg/L	0.0168	0.0880	5.00	5.07	5.09	5.06	4.25 to 5.75	101	70.0 to 130	0.394	20.0
BD18967	Sulfate	mg/L	0.0518	2.0	20.0	19.8	19.1	19.5	18.0 to 22.0	99.0	80.0 to 120	3.60	20.0
BD18600	Thallium, Dissolved	mg/L	-0.0000069	0.000147	0.100	0.101	0.0980	0.103	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD18599	Thallium, Total	mg/L	0.0000073	0.000147	0.100	0.0958	0.102	0.104	0.0850 to 0.115	95.8	70.0 to 130	6.27	20.0
BD18601	Total Organic Carbon	mg/L	0.118	1.00	10.0	10.1	10.2	24.0		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/4/23 15:35
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond - MW-22S

Laboratory ID Number: BD18600

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.18	0.201	2.13	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD18599	Solids, Dissolved	mg/L	2.00	25.0			526	52.0	40.0 to 60.0			1.13	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-3

Location Code: WMWMILAPFB
Collected: 10/4/23 16:00
Customer ID:
Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18601

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/6/23 13:15	10/6/23 18:01		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/6/23 13:15	10/6/23 18:01		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/6/23 13:15	10/11/23 12:52		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/6/23 13:15	10/6/23 18:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/6/23 13:15	10/6/23 18:01		1.015	0.0215	mg/L	0.021315	0.406	J
* Molybdenum, Total	10/6/23 13:15	10/11/23 12:52		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/6/23 13:15	10/6/23 18:01		1	Not Detected	mg/L			
* Silicon, Total	10/6/23 13:15	10/6/23 18:01		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/6/23 13:15	10/6/23 18:01		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/11/23 14:59	10/16/23 13:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/11/23 14:59	10/11/23 18:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/5/23 17:45	10/5/23 23:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	10/9/23 15:31	10/9/23 15:31		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/5/23 14:35	10/11/23 12:18		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-3

Location Code: WMWMILAPFB

Collected: 10/4/23 16:00

Customer ID:

Submittal Date: 10/5/23 11:27

Laboratory ID Number: BD18601

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/9/23 23:25	10/9/23 23:25		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/5/23 16:47	10/5/23 16:47		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/6/23 15:31	10/6/23 15:31		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 12:16	10/12/23 12:16		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 10/4/23 16:00
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond Field Blank-3

Laboratory ID Number: BD18601

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18599	Aluminum, Total	mg/L	-0.00111	0.0198	0.100	0.128	0.132	0.0992	0.0850 to 0.115	100	70.0 to 130	3.08	20.0
BD18599	Antimony, Total	mg/L	0.000537	0.00100	0.100	0.117	0.117	0.113	0.0850 to 0.115	117	70.0 to 130	0.00	20.0
BD18599	Arsenic, Total	mg/L	-0.0000341	0.000200	0.100	0.104	0.104	0.103	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18599	Barium, Total	mg/L	-0.0000460	0.00100	0.100	0.201	0.204	0.0985	0.0850 to 0.115	101	70.0 to 130	1.48	20.0
BD18599	Beryllium, Total	mg/L	0.0000337	0.000880	0.100	0.100	0.0998	0.101	0.0850 to 0.115	100	70.0 to 130	0.200	20.0
BD18601	Boron, Total	mg/L	0.00024	0.0650	1.00	0.994	0.993	1.00	0.850 to 1.15	99.4	70.0 to 130	0.101	20.0
BD18599	Cadmium, Total	mg/L	-0.0000004	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD18601	Calcium, Total	mg/L	-0.0198	0.152	5.00	4.91	4.86	4.93	4.25 to 5.75	98.2	70.0 to 130	1.02	20.0
BD18601	Chloride	mg/L	0.0384	1.00	10.0	9.87	9.74	9.98	9.00 to 11.0	98.7	80.0 to 120	1.33	20.0
BD18599	Chromium, Total	mg/L	0.0000269	0.000440	0.100	0.0979	0.0997	0.0995	0.0850 to 0.115	97.7	70.0 to 130	1.82	20.0
BD18599	Cobalt, Total	mg/L	0.0000041	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD18601	Fluoride	mg/L	0.0196	0.125	2.50	2.60	2.69	2.57	2.25 to 2.75	104	80.0 to 120	3.40	20.0
BD18601	Iron, Total	mg/L	0.000769	0.0176	0.2	0.207	0.207	0.208	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18599	Lead, Total	mg/L	0.0000032	0.000147	0.100	0.0964	0.0999	0.103	0.0850 to 0.115	96.4	70.0 to 130	3.57	20.0
BD18601	Lithium, Total	mg/L	0.00009	0.0154	0.200	0.196	0.200	0.198	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0
BD18601	Magnesium, Total	mg/L	0.00967	0.0462	5.00	4.92	4.96	4.94	4.25 to 5.75	98.0	70.0 to 130	0.810	20.0
BD18599	Manganese, Total	mg/L	0.0000114	0.00033	0.100	0.111	0.113	0.104	0.0850 to 0.115	101	70.0 to 130	1.79	20.0
BD18601	Mercury, Total by CVAA	mg/L	0.00012	0.000500	0.004	0.00409	0.00408	0.00408	0.00340 to 0.00460	102	70.0 to 130	0.245	20.0
BD18601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.209	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18599	Potassium, Total	mg/L	0.0430	0.367	10.0	12.7	12.8	10.1	8.50 to 11.5	98.8	70.0 to 130	0.784	20.0
BD18599	Selenium, Total	mg/L	0.0000473	0.00100	0.100	0.0937	0.0935	0.0920	0.0850 to 0.115	93.7	70.0 to 130	0.214	20.0
BD18601	Silicon, Total	mg/L	0.00145	0.0440	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD18601	Sodium, Total	mg/L	0.0168	0.0880	5.00	5.07	5.09	5.06	4.25 to 5.75	101	70.0 to 130	0.394	20.0
BD18967	Sulfate	mg/L	0.0518	2.0	20.0	19.8	19.1	19.5	18.0 to 22.0	99.0	80.0 to 120	3.60	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 10/4/23 16:00
Customer ID:
Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond Field Blank-3

Laboratory ID Number: BD18601

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD18599	Thallium, Total	mg/L	0.0000073	0.000147	0.100	0.0958	0.102	0.104	0.0850 to 0.115	95.8	70.0 to 130	6.27	20.0
BD18601	Total Organic Carbon	mg/L	0.118	1.00	10.0	10.1	10.2	24.0		101	80.0 to 120	0.985	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 10/4/23 16:00

Customer ID:

Delivery Date: 10/5/23 11:27

Description: Miller Ash Pond Field Blank-3

Laboratory ID Number: BD18601

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.18	0.201	2.13	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD18599	Solids, Dissolved	mg/L	2.00	25.0			526	52.0	40.0 to 60.0			1.13	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-37H

Location Code: WMWMILAP
Collected: 10/9/23 13:20
Customer ID:
Submittal Date: 10/12/23 10:37

Laboratory ID Number: BD18961

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	10/17/23 13:42	10/19/23 12:44		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/17/23 13:42	10/19/23 12:44		1.015	39.8	mg/L	0.070035	0.406		
* Iron, Total	10/17/23 13:42	10/19/23 12:44		1.015	0.405	mg/L	0.008120	0.0406		
* Lithium, Total	10/17/23 13:42	10/19/23 12:44		1.015	0.0608	mg/L	0.007105	0.01999956		
* Magnesium, Total	10/17/23 13:42	10/19/23 12:44		1.015	13.7	mg/L	0.021315	0.406		
* Molybdenum, Total	10/17/23 13:42	10/19/23 12:44		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 12:44		1	25.5	mg/L				
* Silicon, Total	10/17/23 13:42	10/19/23 12:44		1.015	11.9	mg/L	0.02030	0.25375		
* Sodium, Total	10/17/23 13:42	10/19/23 16:14		10.15	67.6	mg/L	0.4060	4.06		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	10/17/23 13:44	10/19/23 14:48		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 14:48		1.015	39.7	mg/L	0.070035	0.406		
* Iron, Dissolved	10/17/23 13:44	10/19/23 14:48		1.015	0.334	mg/L	0.008120	0.0406		
* Lithium, Dissolved	10/17/23 13:44	10/19/23 14:48		1.015	0.0605	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 14:48		1.015	13.7	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 14:48		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 14:48		1	25.5	mg/L				
* Silicon, Dissolved	10/17/23 13:44	10/19/23 14:48		1.015	11.9	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/17/23 13:44	10/19/23 18:02		10.15	69.6	mg/L	0.4060	4.06		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/17/23 13:42	10/17/23 17:46		1.015	0.000770	mg/L	0.000710	0.001015	J	
* Aluminum, Total	10/17/23 13:42	10/17/23 17:46		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	10/17/23 13:42	10/18/23 15:42		1.015	0.000842	mg/L	0.000112	0.000203		
* Barium, Total	10/17/23 13:42	10/17/23 17:46		1.015	0.116	mg/L	0.000508	0.001015		
* Beryllium, Total	10/17/23 13:42	10/18/23 15:42		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/17/23 13:42	10/17/23 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/17/23 13:42	10/17/23 17:46		1.015	0.000240	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/17/23 13:42	10/17/23 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/17/23 13:42	10/17/23 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/17/23 13:42	10/17/23 17:46		1.015	0.0124	mg/L	0.000152	0.001015		

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-37H

Location Code: WMWMILAP
Collected: 10/9/23 13:20
Customer ID:
Submittal Date: 10/12/23 10:37

Laboratory ID Number: BD18961

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 17:46		1.015	2.14	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 15:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	0.000666	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	0.114	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	0.000223	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	0.0124	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	2.21	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 15:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/24/23 18:14	10/24/23 22:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 16:50	10/18/23 16:50		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.46	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	233	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	299	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	231	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	1.61	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 12:42	10/13/23 12:42		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-37H

Location Code: WMWMILAP
Collected: 10/9/23 13:20
Customer ID:
Submittal Date: 10/12/23 10:37

Laboratory ID Number: BD18961

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:10	10/18/23 09:10		1	12.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:30	10/18/23 11:30		1	0.176	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 12:17	10/12/23 12:17		1	32.9	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/9/23 13:17	10/9/23 13:17			462.33	uS/cm			FA
pH	10/9/23 13:17	10/9/23 13:17			7.12	SU			FA
Temperature	10/9/23 13:17	10/9/23 13:17			17.81	C			FA
Turbidity	10/9/23 13:17	10/9/23 13:17			1.09	NTU			FA
Sulfide	10/9/23 13:17	10/9/23 13:17			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/9/23 13:20
Customer ID:
Delivery Date: 10/12/23 10:37

Description: Miller Ash Pond - MW-37H

Laboratory ID Number: BD18961

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18972	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.0907	0.0919	0.0949	0.0850 to 0.115	90.7	70.0 to 130	1.31	20.0
BD18970	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0952	0.0925	0.0931	0.0850 to 0.115	36.1	70.0 to 130	2.88	20.0
BD18972	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.0995	0.104	0.0988	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD18970	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18972	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.113	0.113	0.112	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD18970	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.0993	0.0989	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BD18972	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.126	0.131	0.105	0.0850 to 0.115	99.4	70.0 to 130	3.89	20.0
BD18970	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.208	0.213	0.109	0.0850 to 0.115	99.0	70.0 to 130	2.38	20.0
BD18972	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD18970	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.105	0.107	0.104	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD18972	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	3.66	3.64	1.03	0.850 to 1.15	104	70.0 to 130	0.548	20.0
BD18970	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.12	1.12	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18972	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18970	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18972	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	171	176	4.93	4.25 to 5.75	20.0	70.0 to 130	2.88	20.0
BD18970	Calcium, Total	mg/L	-0.0102	0.152	5.00	53.9	54.1	5.04	4.25 to 5.75	162	70.0 to 130	0.370	20.0
BD18969	Chloride	mg/L	0.0392	1.00	10.0	18.6	18.8	10.2	9.00 to 11.0	92.8	80.0 to 120	1.07	20.0
BD18972	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0988	0.0988	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD18970	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0976	0.0960	0.103	0.0850 to 0.115	97.6	70.0 to 130	1.65	20.0
BD18972	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.107	0.106	0.105	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD18970	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0991	0.0977	0.106	0.0850 to 0.115	99.1	70.0 to 130	1.42	20.0
BD18969	Fluoride	mg/L	0.0389	0.125	2.50	2.77	2.83	2.60	2.25 to 2.75	105	80.0 to 120	2.14	20.0
BD18972	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	1.83	1.82	0.207	0.170 to 0.230	95.0	70.0 to 130	0.548	20.0
BD18970	Iron, Total	mg/L	0.00237	0.0176	0.2	3.96	3.95	0.208	0.170 to 0.230	95.0	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/9/23 13:20
Customer ID:
Delivery Date: 10/12/23 10:37

Description: Miller Ash Pond - MW-37H

Laboratory ID Number: BD18961

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18972	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD18970	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18972	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.379	0.385	0.207	0.170 to 0.230	103	70.0 to 130	1.57	20.0
BD18970	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.226	0.226	0.211	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18972	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	26.1	26.2	5.13	4.25 to 5.75	96.0	70.0 to 130	0.382	20.0
BD18970	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	22.5	22.5	5.22	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BD18972	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	1.48	1.48	0.103	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18970	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.277	0.272	0.104	0.0850 to 0.115	94.0	70.0 to 130	1.82	20.0
BD18970	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00395	0.004	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BD18972	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.284	0.285	0.209	0.170 to 0.230	103	70.0 to 130	0.351	20.0
BD18970	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.207	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18972	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	23.0	22.9	10.5	8.50 to 11.5	88.0	70.0 to 130	0.436	20.0
BD18970	Potassium, Total	mg/L	0.0234	0.367	10.0	11.1	11.1	10.5	8.50 to 11.5	100	70.0 to 130	0.00	20.0
BD18972	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.109	0.111	0.110	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD18970	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0998	0.0996	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.201	20.0
BD18972	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	4.65	4.64	1.06	0.850 to 1.15	105	70.0 to 130	0.215	20.0
BD18970	Silicon, Total	mg/L	0.000099	0.0440	1.00	16.2	16.2	1.06	0.850 to 1.15	110	70.0 to 130	0.00	20.0
BD18972	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	95.4	96.5	5.16	4.25 to 5.75	70.0	70.0 to 130	1.15	20.0
BD18970	Sodium, Total	mg/L	0.0204	0.0880	5.00	17.3	17.3	5.36	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD18967	Sulfate	mg/L	0.0518	2.0	20.0	19.8	19.1	19.5	18.0 to 22.0	99.0	80.0 to 120	3.60	20.0
BD18972	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18970	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.106	0.103	0.109	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD18969	Total Organic Carbon	mg/L	0.142	1.00	10.0	10.4	10.4	25.5		104	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/9/23 13:20
Customer ID:
Delivery Date: 10/12/23 10:37

Description: Miller Ash Pond - MW-37H

Laboratory ID Number: BD18961

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18970	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.02	0.133	1.95	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BD18968	Solids, Dissolved	mg/L	0.0000	25.0			806	51.0	40.0 to 60.0			1.25	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-10

Location Code: WMWMILAP
Collected: 10/9/23 14:55
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18962

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 12:48		1.015	7.06	mg/L	0.030000	0.1015	
* Calcium, Total	10/17/23 13:42	10/19/23 16:17		10.15	194	mg/L	0.70035	4.06	
* Iron, Total	10/17/23 13:42	10/19/23 12:48		1.015	2.68	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 12:48		1.015	0.281	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 16:17		10.15	97.3	mg/L	0.21315	4.06	
* Molybdenum, Total	10/17/23 13:42	10/19/23 12:48		1.015	0.358	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 12:48		1	20.2	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 12:48		1.015	9.44	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 16:20		101.5	495	mg/L	4.060	40.6	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/17/23 13:44	10/19/23 14:51		1.015	7.09	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 18:05		10.15	196	mg/L	0.70035	4.06	
* Iron, Dissolved	10/17/23 13:44	10/19/23 14:51		1.015	2.49	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 14:51		1.015	0.280	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 18:05		10.15	95.5	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 14:51		1.015	0.365	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 14:51		1	20.0	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 14:51		1.015	9.35	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 18:09		101.5	506	mg/L	4.060	40.6	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 17:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 15:46		1.015	0.0270	mg/L	0.000112	0.000203	
* Aluminum, Total	10/17/23 13:42	10/17/23 17:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/17/23 13:42	10/17/23 17:50		1.015	0.0231	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 15:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 17:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 17:50		1.015	0.000480	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 17:50		1.015	0.00143	mg/L	0.000068	0.000203	
* Lead, Total	10/17/23 13:42	10/17/23 17:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 17:50		1.015	1.08	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-10

Location Code: WMWMILAP
Collected: 10/9/23 14:55
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18962

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 17:50		1.015	17.9	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 15:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 17:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	0.0290	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	0.0195	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	0.00118	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	0.856	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	14.5	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 15:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/24/23 18:14	10/24/23 22:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 16:52	10/18/23 16:52		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.49	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	269	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	2410	mg/L		147.1	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	268	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	0.634	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 12:58	10/13/23 12:58		1	1.32	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-10

Location Code: WMWMILAP
Collected: 10/9/23 14:55
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18962

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:12	10/18/23 09:12		1	8.66	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:31	10/18/23 11:31		1	0.578	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 12:28	10/12/23 12:28		50	1410	mg/L	30.0	100	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/9/23 14:53	10/9/23 14:53			2780.49	uS/cm			FA
pH	10/9/23 14:53	10/9/23 14:53			7.16	SU			FA
Temperature	10/9/23 14:53	10/9/23 14:53			17.59	C			FA
Turbidity	10/9/23 14:53	10/9/23 14:53			2.81	NTU			FA
Sulfide	10/9/23 14:53	10/9/23 14:53			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/9/23 14:55
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-10

Laboratory ID Number: BD18962

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18972	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.0907	0.0919	0.0949	0.0850 to 0.115	90.7	70.0 to 130	1.31	20.0
BD18970	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0952	0.0925	0.0931	0.0850 to 0.115	36.1	70.0 to 130	2.88	20.0
BD18972	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.0995	0.104	0.0988	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD18970	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18972	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.113	0.113	0.112	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD18970	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.0993	0.0989	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BD18972	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.126	0.131	0.105	0.0850 to 0.115	99.4	70.0 to 130	3.89	20.0
BD18970	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.208	0.213	0.109	0.0850 to 0.115	99.0	70.0 to 130	2.38	20.0
BD18972	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD18970	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.105	0.107	0.104	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD18972	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	3.66	3.64	1.03	0.850 to 1.15	104	70.0 to 130	0.548	20.0
BD18970	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.12	1.12	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18972	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18970	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18972	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	171	176	4.93	4.25 to 5.75	20.0	70.0 to 130	2.88	20.0
BD18970	Calcium, Total	mg/L	-0.0102	0.152	5.00	53.9	54.1	5.04	4.25 to 5.75	162	70.0 to 130	0.370	20.0
BD18969	Chloride	mg/L	0.0392	1.00	10.0	18.6	18.8	10.2	9.00 to 11.0	92.8	80.0 to 120	1.07	20.0
BD18972	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0988	0.0988	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD18970	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0976	0.0960	0.103	0.0850 to 0.115	97.6	70.0 to 130	1.65	20.0
BD18972	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.107	0.106	0.105	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD18970	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0991	0.0977	0.106	0.0850 to 0.115	99.1	70.0 to 130	1.42	20.0
BD18969	Fluoride	mg/L	0.0389	0.125	2.50	2.77	2.83	2.60	2.25 to 2.75	105	80.0 to 120	2.14	20.0
BD18972	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	1.83	1.82	0.207	0.170 to 0.230	95.0	70.0 to 130	0.548	20.0
BD18970	Iron, Total	mg/L	0.00237	0.0176	0.2	3.96	3.95	0.208	0.170 to 0.230	95.0	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/9/23 14:55
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-10

Laboratory ID Number: BD18962

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18972	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD18970	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18972	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.379	0.385	0.207	0.170 to 0.230	103	70.0 to 130	1.57	20.0
BD18970	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.226	0.226	0.211	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18972	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	26.1	26.2	5.13	4.25 to 5.75	96.0	70.0 to 130	0.382	20.0
BD18970	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	22.5	22.5	5.22	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BD18972	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	1.48	1.48	0.103	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18970	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.277	0.272	0.104	0.0850 to 0.115	94.0	70.0 to 130	1.82	20.0
BD18970	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00395	0.004	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BD18972	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.284	0.285	0.209	0.170 to 0.230	103	70.0 to 130	0.351	20.0
BD18970	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.207	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18972	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	23.0	22.9	10.5	8.50 to 11.5	88.0	70.0 to 130	0.436	20.0
BD18970	Potassium, Total	mg/L	0.0234	0.367	10.0	11.1	11.1	10.5	8.50 to 11.5	100	70.0 to 130	0.00	20.0
BD18972	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.109	0.111	0.110	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD18970	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0998	0.0996	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.201	20.0
BD18972	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	4.65	4.64	1.06	0.850 to 1.15	105	70.0 to 130	0.215	20.0
BD18970	Silicon, Total	mg/L	0.000099	0.0440	1.00	16.2	16.2	1.06	0.850 to 1.15	110	70.0 to 130	0.00	20.0
BD18972	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	95.4	96.5	5.16	4.25 to 5.75	70.0	70.0 to 130	1.15	20.0
BD18970	Sodium, Total	mg/L	0.0204	0.0880	5.00	17.3	17.3	5.36	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD18967	Sulfate	mg/L	0.0518	2.0	20.0	19.8	19.1	19.5	18.0 to 22.0	99.0	80.0 to 120	3.60	20.0
BD18972	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18970	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.106	0.103	0.109	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD18969	Total Organic Carbon	mg/L	0.142	1.00	10.0	10.4	10.4	25.5		104	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/9/23 14:55
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-10

Laboratory ID Number: BD18962

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18970	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.02	0.133	1.95	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BD18968	Solids, Dissolved	mg/L	0.0000	25.0			806	51.0	40.0 to 60.0			1.25	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H

Location Code: WMWMILAP
Collected: 10/10/23 10:35
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18963

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 12:51		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/17/23 13:42	10/19/23 16:23		10.15	77.1	mg/L	0.70035	4.06	
* Iron, Total	10/17/23 13:42	10/19/23 12:51		1.015	3.35	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 12:51		1.015	0.0279	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 12:51		1.015	36.0	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 12:51		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 12:51		1	36.2	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 12:51		1.015	16.9	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 12:51		1.015	25.5	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	10/17/23 13:44	10/19/23 14:54		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	10/17/23 13:44	10/19/23 18:12		10.15	82.0	mg/L	0.70035	4.06	
* Iron, Dissolved	10/17/23 13:44	10/19/23 14:54		1.015	3.34	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 14:54		1.015	0.0276	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 14:54		1.015	35.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 14:54		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 14:54		1	35.7	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 14:54		1.015	16.7	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 14:54		1.015	25.0	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 17:53		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/17/23 13:42	10/17/23 17:53		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/17/23 13:42	10/18/23 15:49		1.015	0.0138	mg/L	0.000112	0.000203	
* Barium, Total	10/17/23 13:42	10/17/23 17:53		1.015	0.0292	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 15:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 17:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 17:53		1.015	0.000251	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 17:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 17:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 17:53		1.015	0.277	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H

Location Code: WMWMILAP
Collected: 10/10/23 10:35
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18963

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 17:53		1.015	1.44	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 15:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 17:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	0.0151	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	0.0296	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	0.271	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	1.46	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 15:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/24/23 18:14	10/24/23 22:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 16:54	10/18/23 16:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.40	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	143	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	453	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	143	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 13:14	10/13/23 13:14		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H

Location Code: WMWMILAP
Collected: 10/10/23 10:35
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18963

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:13	10/18/23 09:13		1	2.03	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:33	10/18/23 11:33		1	0.133	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 12:29	10/12/23 12:29		10	194	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/10/23 10:32	10/10/23 10:32			603.18	uS/cm			FA
pH	10/10/23 10:32	10/10/23 10:32			6.65	SU			FA
Temperature	10/10/23 10:32	10/10/23 10:32			19.00	C			FA
Turbidity	10/10/23 10:32	10/10/23 10:32			1.16	NTU			FA
Sulfide	10/10/23 10:32	10/10/23 10:32			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 10:35
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-35H

Laboratory ID Number: BD18963

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18972	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.0907	0.0919	0.0949	0.0850 to 0.115	90.7	70.0 to 130	1.31	20.0
BD18970	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0952	0.0925	0.0931	0.0850 to 0.115	36.1	70.0 to 130	2.88	20.0
BD18972	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.0995	0.104	0.0988	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD18970	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18972	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.113	0.113	0.112	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD18970	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.0993	0.0989	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BD18972	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.126	0.131	0.105	0.0850 to 0.115	99.4	70.0 to 130	3.89	20.0
BD18970	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.208	0.213	0.109	0.0850 to 0.115	99.0	70.0 to 130	2.38	20.0
BD18972	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD18970	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.105	0.107	0.104	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD18972	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	3.66	3.64	1.03	0.850 to 1.15	104	70.0 to 130	0.548	20.0
BD18970	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.12	1.12	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18972	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18970	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18972	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	171	176	4.93	4.25 to 5.75	20.0	70.0 to 130	2.88	20.0
BD18970	Calcium, Total	mg/L	-0.0102	0.152	5.00	53.9	54.1	5.04	4.25 to 5.75	162	70.0 to 130	0.370	20.0
BD18969	Chloride	mg/L	0.0392	1.00	10.0	18.6	18.8	10.2	9.00 to 11.0	92.8	80.0 to 120	1.07	20.0
BD18972	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0988	0.0988	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD18970	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0976	0.0960	0.103	0.0850 to 0.115	97.6	70.0 to 130	1.65	20.0
BD18972	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.107	0.106	0.105	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD18970	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0991	0.0977	0.106	0.0850 to 0.115	99.1	70.0 to 130	1.42	20.0
BD18969	Fluoride	mg/L	0.0389	0.125	2.50	2.77	2.83	2.60	2.25 to 2.75	105	80.0 to 120	2.14	20.0
BD18972	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	1.83	1.82	0.207	0.170 to 0.230	95.0	70.0 to 130	0.548	20.0
BD18970	Iron, Total	mg/L	0.00237	0.0176	0.2	3.96	3.95	0.208	0.170 to 0.230	95.0	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 10:35
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-35H

Laboratory ID Number: BD18963

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18972	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD18970	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18972	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.379	0.385	0.207	0.170 to 0.230	103	70.0 to 130	1.57	20.0
BD18970	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.226	0.226	0.211	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18972	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	26.1	26.2	5.13	4.25 to 5.75	96.0	70.0 to 130	0.382	20.0
BD18970	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	22.5	22.5	5.22	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BD18972	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	1.48	1.48	0.103	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18970	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.277	0.272	0.104	0.0850 to 0.115	94.0	70.0 to 130	1.82	20.0
BD18970	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00395	0.004	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BD18972	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.284	0.285	0.209	0.170 to 0.230	103	70.0 to 130	0.351	20.0
BD18970	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.207	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18972	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	23.0	22.9	10.5	8.50 to 11.5	88.0	70.0 to 130	0.436	20.0
BD18970	Potassium, Total	mg/L	0.0234	0.367	10.0	11.1	11.1	10.5	8.50 to 11.5	100	70.0 to 130	0.00	20.0
BD18972	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.109	0.111	0.110	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD18970	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0998	0.0996	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.201	20.0
BD18972	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	4.65	4.64	1.06	0.850 to 1.15	105	70.0 to 130	0.215	20.0
BD18970	Silicon, Total	mg/L	0.000099	0.0440	1.00	16.2	16.2	1.06	0.850 to 1.15	110	70.0 to 130	0.00	20.0
BD18972	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	95.4	96.5	5.16	4.25 to 5.75	70.0	70.0 to 130	1.15	20.0
BD18970	Sodium, Total	mg/L	0.0204	0.0880	5.00	17.3	17.3	5.36	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD18967	Sulfate	mg/L	0.0518	2.0	20.0	19.8	19.1	19.5	18.0 to 22.0	99.0	80.0 to 120	3.60	20.0
BD18972	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18970	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.106	0.103	0.109	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD18969	Total Organic Carbon	mg/L	0.142	1.00	10.0	10.4	10.4	25.5		104	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 10:35
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-35H

Laboratory ID Number: BD18963

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18970	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.02	0.133	1.95	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BD18968	Solids, Dissolved	mg/L	0.0000	25.0			806	51.0	40.0 to 60.0			1.25	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H Dup

Location Code: WMWMILAP
Collected: 10/10/23 10:35
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18964

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 12:54		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/17/23 13:42	10/19/23 16:26		10.15	76.0	mg/L	0.70035	4.06	
* Iron, Total	10/17/23 13:42	10/19/23 12:54		1.015	3.36	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 12:54		1.015	0.0277	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 12:54		1.015	36.5	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 12:54		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 12:54		1	36.4	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 12:54		1.015	17.0	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 12:54		1.015	25.6	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	10/17/23 13:44	10/19/23 14:57		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	10/17/23 13:44	10/19/23 18:15		10.15	73.8	mg/L	0.70035	4.06	
* Iron, Dissolved	10/17/23 13:44	10/19/23 14:57		1.015	3.35	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 14:57		1.015	0.0277	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 14:57		1.015	36.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 14:57		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 14:57		1	35.5	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 14:57		1.015	16.6	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 14:57		1.015	24.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 17:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 15:53		1.015	0.0138	mg/L	0.000112	0.000203	
* Aluminum, Total	10/17/23 13:42	10/18/23 15:53		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/17/23 13:42	10/17/23 17:57		1.015	0.0292	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 15:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/18/23 15:53		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/17/23 13:42	10/18/23 15:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/18/23 15:53		1.015	0.276	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H Dup

Location Code: WMWMILAP
Collected: 10/10/23 10:35
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18964

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/18/23 15:53		1.015	1.39	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 15:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	0.0150	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	0.0289	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	0.271	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	1.41	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/24/23 18:14	10/24/23 22:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 16:56	10/18/23 16:56		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.49	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	141	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	454	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	141	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 13:32	10/13/23 13:32		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-35H Dup

Location Code: WMWMILAP
Collected: 10/10/23 10:35
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18964

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:14	10/18/23 09:14		1	2.08	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:34	10/18/23 11:34		1	0.131	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 12:31	10/12/23 12:31		10	198	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/10/23 10:32	10/10/23 10:32			603.18	uS/cm			FA
pH	10/10/23 10:32	10/10/23 10:32			6.65	SU			FA
Temperature	10/10/23 10:32	10/10/23 10:32			19.00	C			FA
Turbidity	10/10/23 10:32	10/10/23 10:32			1.16	NTU			FA
Sulfide	10/10/23 10:32	10/10/23 10:32			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 10:35
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-35H Dup

Laboratory ID Number: BD18964

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18972	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.0907	0.0919	0.0949	0.0850 to 0.115	90.7	70.0 to 130	1.31	20.0
BD18970	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0952	0.0925	0.0931	0.0850 to 0.115	36.1	70.0 to 130	2.88	20.0
BD18972	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.0995	0.104	0.0988	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD18970	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18972	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.113	0.113	0.112	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD18970	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.0993	0.0989	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BD18972	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.126	0.131	0.105	0.0850 to 0.115	99.4	70.0 to 130	3.89	20.0
BD18970	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.208	0.213	0.109	0.0850 to 0.115	99.0	70.0 to 130	2.38	20.0
BD18972	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD18970	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.105	0.107	0.104	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD18972	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	3.66	3.64	1.03	0.850 to 1.15	104	70.0 to 130	0.548	20.0
BD18970	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.12	1.12	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18972	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18970	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18972	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	171	176	4.93	4.25 to 5.75	20.0	70.0 to 130	2.88	20.0
BD18970	Calcium, Total	mg/L	-0.0102	0.152	5.00	53.9	54.1	5.04	4.25 to 5.75	162	70.0 to 130	0.370	20.0
BD18969	Chloride	mg/L	0.0392	1.00	10.0	18.6	18.8	10.2	9.00 to 11.0	92.8	80.0 to 120	1.07	20.0
BD18972	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0988	0.0988	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD18970	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0976	0.0960	0.103	0.0850 to 0.115	97.6	70.0 to 130	1.65	20.0
BD18972	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.107	0.106	0.105	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD18970	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0991	0.0977	0.106	0.0850 to 0.115	99.1	70.0 to 130	1.42	20.0
BD18969	Fluoride	mg/L	0.0389	0.125	2.50	2.77	2.83	2.60	2.25 to 2.75	105	80.0 to 120	2.14	20.0
BD18972	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	1.83	1.82	0.207	0.170 to 0.230	95.0	70.0 to 130	0.548	20.0
BD18970	Iron, Total	mg/L	0.00237	0.0176	0.2	3.96	3.95	0.208	0.170 to 0.230	95.0	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 10:35
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-35H Dup

Laboratory ID Number: BD18964

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18972	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD18970	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18972	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.379	0.385	0.207	0.170 to 0.230	103	70.0 to 130	1.57	20.0
BD18970	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.226	0.226	0.211	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18972	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	26.1	26.2	5.13	4.25 to 5.75	96.0	70.0 to 130	0.382	20.0
BD18970	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	22.5	22.5	5.22	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BD18972	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	1.48	1.48	0.103	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18970	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.277	0.272	0.104	0.0850 to 0.115	94.0	70.0 to 130	1.82	20.0
BD18970	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00395	0.004	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BD18972	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.284	0.285	0.209	0.170 to 0.230	103	70.0 to 130	0.351	20.0
BD18970	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.207	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18972	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	23.0	22.9	10.5	8.50 to 11.5	88.0	70.0 to 130	0.436	20.0
BD18970	Potassium, Total	mg/L	0.0234	0.367	10.0	11.1	11.1	10.5	8.50 to 11.5	100	70.0 to 130	0.00	20.0
BD18972	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.109	0.111	0.110	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD18970	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0998	0.0996	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.201	20.0
BD18972	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	4.65	4.64	1.06	0.850 to 1.15	105	70.0 to 130	0.215	20.0
BD18970	Silicon, Total	mg/L	0.000099	0.0440	1.00	16.2	16.2	1.06	0.850 to 1.15	110	70.0 to 130	0.00	20.0
BD18972	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	95.4	96.5	5.16	4.25 to 5.75	70.0	70.0 to 130	1.15	20.0
BD18970	Sodium, Total	mg/L	0.0204	0.0880	5.00	17.3	17.3	5.36	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD18967	Sulfate	mg/L	0.0518	2.0	20.0	19.8	19.1	19.5	18.0 to 22.0	99.0	80.0 to 120	3.60	20.0
BD18972	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18970	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.106	0.103	0.109	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD18969	Total Organic Carbon	mg/L	0.142	1.00	10.0	10.4	10.4	25.5		104	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 10:35
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-35H Dup

Laboratory ID Number: BD18964

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18970	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.02	0.133	1.95	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BD18968	Solids, Dissolved	mg/L	0.0000	25.0			806	51.0	40.0 to 60.0			1.25	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-17H

Location Code: WMWMILAP
Collected: 10/10/23 11:50
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18965

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 12:57		1.015	0.140	mg/L	0.030000	0.1015	
* Calcium, Total	10/17/23 13:42	10/19/23 12:57		1.015	37.7	mg/L	0.070035	0.406	
* Iron, Total	10/17/23 13:42	10/19/23 12:57		1.015	1.79	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 12:57		1.015	0.113	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 12:57		1.015	15.7	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 12:57		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 12:57		1	24.4	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 12:57		1.015	11.4	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 16:30		10.15	187	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:00		1.015	0.138	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 15:00		1.015	37.1	mg/L	0.070035	0.406	
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:00		1.015	0.939	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:00		1.015	0.111	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:00		1.015	15.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:00		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:00		1	24.2	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:00		1.015	11.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 18:18		10.15	182	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 18:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 15:57		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	10/17/23 13:42	10/17/23 18:01		1.015	0.0278	mg/L	0.009135	0.05075	J
* Barium, Total	10/17/23 13:42	10/17/23 18:01		1.015	0.141	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 15:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 18:01		1.015	0.000285	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 18:01		1.015	0.0489	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-17H

Location Code: WMWMILAP
Collected: 10/10/23 11:50
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18965

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 18:01		1.015	1.55	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 15:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	0.0983	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	0.0461	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	1.63	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/24/23 18:14	10/24/23 22:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 16:58	10/18/23 16:58		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.52	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	387	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	548	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	386	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	0.832	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 13:49	10/13/23 13:49		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-17H

Location Code: WMWMILAP
Collected: 10/10/23 11:50
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18965

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:15	10/18/23 09:15		1	10.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:35	10/18/23 11:35		1	0.163	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 12:46	10/12/23 12:46		3	90.1	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/10/23 11:47	10/10/23 11:47			815.70	uS/cm			FA
pH	10/10/23 11:47	10/10/23 11:47			6.50	SU			FA
Temperature	10/10/23 11:47	10/10/23 11:47			17.43	C			FA
Turbidity	10/10/23 11:47	10/10/23 11:47			3.33	NTU			FA
Sulfide	10/10/23 11:47	10/10/23 11:47			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 11:50
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-17H

Laboratory ID Number: BD18965

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18972	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.0907	0.0919	0.0949	0.0850 to 0.115	90.7	70.0 to 130	1.31	20.0
BD18970	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0952	0.0925	0.0931	0.0850 to 0.115	36.1	70.0 to 130	2.88	20.0
BD18972	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.0995	0.104	0.0988	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD18970	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18972	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.113	0.113	0.112	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD18970	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.0993	0.0989	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BD18972	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.126	0.131	0.105	0.0850 to 0.115	99.4	70.0 to 130	3.89	20.0
BD18970	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.208	0.213	0.109	0.0850 to 0.115	99.0	70.0 to 130	2.38	20.0
BD18972	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD18970	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.105	0.107	0.104	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD18972	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	3.66	3.64	1.03	0.850 to 1.15	104	70.0 to 130	0.548	20.0
BD18970	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.12	1.12	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18972	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18970	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18972	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	171	176	4.93	4.25 to 5.75	20.0	70.0 to 130	2.88	20.0
BD18970	Calcium, Total	mg/L	-0.0102	0.152	5.00	53.9	54.1	5.04	4.25 to 5.75	162	70.0 to 130	0.370	20.0
BD18969	Chloride	mg/L	0.0392	1.00	10.0	18.6	18.8	10.2	9.00 to 11.0	92.8	80.0 to 120	1.07	20.0
BD18972	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0988	0.0988	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD18970	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0976	0.0960	0.103	0.0850 to 0.115	97.6	70.0 to 130	1.65	20.0
BD18972	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.107	0.106	0.105	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD18970	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0991	0.0977	0.106	0.0850 to 0.115	99.1	70.0 to 130	1.42	20.0
BD18969	Fluoride	mg/L	0.0389	0.125	2.50	2.77	2.83	2.60	2.25 to 2.75	105	80.0 to 120	2.14	20.0
BD18972	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	1.83	1.82	0.207	0.170 to 0.230	95.0	70.0 to 130	0.548	20.0
BD18970	Iron, Total	mg/L	0.00237	0.0176	0.2	3.96	3.95	0.208	0.170 to 0.230	95.0	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 11:50
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-17H

Laboratory ID Number: BD18965

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18972	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD18970	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18972	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.379	0.385	0.207	0.170 to 0.230	103	70.0 to 130	1.57	20.0
BD18970	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.226	0.226	0.211	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18972	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	26.1	26.2	5.13	4.25 to 5.75	96.0	70.0 to 130	0.382	20.0
BD18970	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	22.5	22.5	5.22	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BD18972	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	1.48	1.48	0.103	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18970	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.277	0.272	0.104	0.0850 to 0.115	94.0	70.0 to 130	1.82	20.0
BD18970	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00395	0.004	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BD18972	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.284	0.285	0.209	0.170 to 0.230	103	70.0 to 130	0.351	20.0
BD18970	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.207	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18972	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	23.0	22.9	10.5	8.50 to 11.5	88.0	70.0 to 130	0.436	20.0
BD18970	Potassium, Total	mg/L	0.0234	0.367	10.0	11.1	11.1	10.5	8.50 to 11.5	100	70.0 to 130	0.00	20.0
BD18972	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.109	0.111	0.110	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD18970	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0998	0.0996	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.201	20.0
BD18972	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	4.65	4.64	1.06	0.850 to 1.15	105	70.0 to 130	0.215	20.0
BD18970	Silicon, Total	mg/L	0.000099	0.0440	1.00	16.2	16.2	1.06	0.850 to 1.15	110	70.0 to 130	0.00	20.0
BD18972	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	95.4	96.5	5.16	4.25 to 5.75	70.0	70.0 to 130	1.15	20.0
BD18970	Sodium, Total	mg/L	0.0204	0.0880	5.00	17.3	17.3	5.36	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD18967	Sulfate	mg/L	0.0518	2.0	20.0	19.8	19.1	19.5	18.0 to 22.0	99.0	80.0 to 120	3.60	20.0
BD18972	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18970	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.106	0.103	0.109	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD18969	Total Organic Carbon	mg/L	0.142	1.00	10.0	10.4	10.4	25.5		104	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 11:50
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-17H

Laboratory ID Number: BD18965

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18970	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.02	0.133	1.95	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BD18968	Solids, Dissolved	mg/L	0.0000	25.0			806	51.0	40.0 to 60.0			1.25	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-17H Dup

Location Code: WMWMILAP
Collected: 10/10/23 11:50
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18966

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:00		1.015	0.139	mg/L	0.030000	0.1015	
* Calcium, Total	10/17/23 13:42	10/19/23 13:00		1.015	38.0	mg/L	0.070035	0.406	
* Iron, Total	10/17/23 13:42	10/19/23 13:00		1.015	1.73	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 13:00		1.015	0.112	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 13:00		1.015	15.7	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:00		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:00		1	24.6	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:00		1.015	11.5	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 16:33		10.15	191	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:03		1.015	0.138	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 15:03		1.015	37.6	mg/L	0.070035	0.406	
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:03		1.015	0.956	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:03		1.015	0.113	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:03		1.015	15.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:03		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:03		1	24.4	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:03		1.015	11.4	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 18:21		10.15	175	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 18:05		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/17/23 13:42	10/17/23 18:05		1.015	0.0239	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/17/23 13:42	10/18/23 16:00		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/17/23 13:42	10/17/23 18:05		1.015	0.139	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 16:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 18:05		1.015	0.000259	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 18:05		1.015	0.0515	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-17H Dup

Location Code: WMWMILAP
Collected: 10/10/23 11:50
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18966

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 18:05		1.015	1.60	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 16:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	0.102	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	0.0463	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	1.53	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/24/23 18:14	10/24/23 22:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:00	10/18/23 17:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.49	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	396	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	546	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	395	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	1.07	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 14:07	10/13/23 14:07		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-17H Dup

Location Code: WMWMILAP
Collected: 10/10/23 11:50
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18966

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:16	10/18/23 09:16		1	10.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:36	10/18/23 11:36		1	0.141	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 12:48	10/12/23 12:48		3	89.2	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/10/23 11:47	10/10/23 11:47			815.70	uS/cm			FA
pH	10/10/23 11:47	10/10/23 11:47			6.50	SU			FA
Temperature	10/10/23 11:47	10/10/23 11:47			17.43	C			FA
Turbidity	10/10/23 11:47	10/10/23 11:47			3.33	NTU			FA
Sulfide	10/10/23 11:47	10/10/23 11:47			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 11:50
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-17H Dup

Laboratory ID Number: BD18966

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18972	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.0907	0.0919	0.0949	0.0850 to 0.115	90.7	70.0 to 130	1.31	20.0
BD18970	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0952	0.0925	0.0931	0.0850 to 0.115	36.1	70.0 to 130	2.88	20.0
BD18972	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.0995	0.104	0.0988	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD18970	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18972	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.113	0.113	0.112	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD18970	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.0993	0.0989	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BD18972	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.126	0.131	0.105	0.0850 to 0.115	99.4	70.0 to 130	3.89	20.0
BD18970	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.208	0.213	0.109	0.0850 to 0.115	99.0	70.0 to 130	2.38	20.0
BD18972	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD18970	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.105	0.107	0.104	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD18972	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	3.66	3.64	1.03	0.850 to 1.15	104	70.0 to 130	0.548	20.0
BD18970	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.12	1.12	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18972	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18970	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18972	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	171	176	4.93	4.25 to 5.75	20.0	70.0 to 130	2.88	20.0
BD18970	Calcium, Total	mg/L	-0.0102	0.152	5.00	53.9	54.1	5.04	4.25 to 5.75	162	70.0 to 130	0.370	20.0
BD18969	Chloride	mg/L	0.0392	1.00	10.0	18.6	18.8	10.2	9.00 to 11.0	92.8	80.0 to 120	1.07	20.0
BD18972	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0988	0.0988	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD18970	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0976	0.0960	0.103	0.0850 to 0.115	97.6	70.0 to 130	1.65	20.0
BD18972	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.107	0.106	0.105	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD18970	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0991	0.0977	0.106	0.0850 to 0.115	99.1	70.0 to 130	1.42	20.0
BD18969	Fluoride	mg/L	0.0389	0.125	2.50	2.77	2.83	2.60	2.25 to 2.75	105	80.0 to 120	2.14	20.0
BD18972	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	1.83	1.82	0.207	0.170 to 0.230	95.0	70.0 to 130	0.548	20.0
BD18970	Iron, Total	mg/L	0.00237	0.0176	0.2	3.96	3.95	0.208	0.170 to 0.230	95.0	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 11:50
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-17H Dup

Laboratory ID Number: BD18966

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18972	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD18970	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18972	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.379	0.385	0.207	0.170 to 0.230	103	70.0 to 130	1.57	20.0
BD18970	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.226	0.226	0.211	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18972	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	26.1	26.2	5.13	4.25 to 5.75	96.0	70.0 to 130	0.382	20.0
BD18970	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	22.5	22.5	5.22	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BD18972	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	1.48	1.48	0.103	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18970	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.277	0.272	0.104	0.0850 to 0.115	94.0	70.0 to 130	1.82	20.0
BD18970	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00395	0.004	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BD18972	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.284	0.285	0.209	0.170 to 0.230	103	70.0 to 130	0.351	20.0
BD18970	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.207	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18972	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	23.0	22.9	10.5	8.50 to 11.5	88.0	70.0 to 130	0.436	20.0
BD18970	Potassium, Total	mg/L	0.0234	0.367	10.0	11.1	11.1	10.5	8.50 to 11.5	100	70.0 to 130	0.00	20.0
BD18972	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.109	0.111	0.110	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD18970	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0998	0.0996	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.201	20.0
BD18972	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	4.65	4.64	1.06	0.850 to 1.15	105	70.0 to 130	0.215	20.0
BD18970	Silicon, Total	mg/L	0.000099	0.0440	1.00	16.2	16.2	1.06	0.850 to 1.15	110	70.0 to 130	0.00	20.0
BD18972	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	95.4	96.5	5.16	4.25 to 5.75	70.0	70.0 to 130	1.15	20.0
BD18970	Sodium, Total	mg/L	0.0204	0.0880	5.00	17.3	17.3	5.36	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD18967	Sulfate	mg/L	0.0518	2.0	20.0	19.8	19.1	19.5	18.0 to 22.0	99.0	80.0 to 120	3.60	20.0
BD18972	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18970	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.106	0.103	0.109	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD18969	Total Organic Carbon	mg/L	0.142	1.00	10.0	10.4	10.4	25.5		104	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 11:50
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-17H Dup

Laboratory ID Number: BD18966

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18970	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.02	0.133	1.95	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BD18968	Solids, Dissolved	mg/L	0.0000	25.0			806	51.0	40.0 to 60.0			1.25	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Equipment Blank-2

Location Code: WMWMILAPEB
Collected: 10/10/23 12:45
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18967

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:03		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/17/23 13:42	10/19/23 13:03		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/17/23 13:42	10/19/23 13:03		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/17/23 13:42	10/19/23 13:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/17/23 13:42	10/19/23 13:03		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:03		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:03		1	Not Detected	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:03		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/17/23 13:42	10/19/23 13:03		1.015	0.0545	mg/L	0.04060	0.406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 18:09		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 16:04		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	10/17/23 13:42	10/18/23 16:04		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/17/23 13:42	10/17/23 18:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/17/23 13:42	10/18/23 16:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/18/23 16:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/17/23 13:42	10/18/23 16:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/18/23 16:04		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	10/17/23 13:42	10/18/23 16:04		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/17/23 13:42	10/18/23 16:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/24/23 18:14	10/24/23 22:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:01	10/18/23 17:01		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Equipment Blank-2

Location Code: WMWMILAPEB
Collected: 10/10/23 12:45
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18967

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 14:21	10/13/23 14:21		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:18	10/18/23 09:18		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:37	10/18/23 11:37		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 12:25	10/12/23 12:25		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB
Sample Date: 10/10/23 12:45
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond Equipment Blank-2

Laboratory ID Number: BD18967

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18970	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0952	0.0925	0.0931	0.0850 to 0.115	36.1	70.0 to 130	2.88	20.0
BD18970	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18970	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.0993	0.0989	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BD18970	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.208	0.213	0.109	0.0850 to 0.115	99.0	70.0 to 130	2.38	20.0
BD18970	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.105	0.107	0.104	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD18970	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.12	1.12	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18970	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18970	Calcium, Total	mg/L	-0.0102	0.152	5.00	53.9	54.1	5.04	4.25 to 5.75	162	70.0 to 130	0.370	20.0
BD18969	Chloride	mg/L	0.0392	1.00	10.0	18.6	18.8	10.2	9.00 to 11.0	92.8	80.0 to 120	1.07	20.0
BD18970	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0976	0.0960	0.103	0.0850 to 0.115	97.6	70.0 to 130	1.65	20.0
BD18970	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0991	0.0977	0.106	0.0850 to 0.115	99.1	70.0 to 130	1.42	20.0
BD18969	Fluoride	mg/L	0.0389	0.125	2.50	2.77	2.83	2.60	2.25 to 2.75	105	80.0 to 120	2.14	20.0
BD18970	Iron, Total	mg/L	0.00237	0.0176	0.2	3.96	3.95	0.208	0.170 to 0.230	95.0	70.0 to 130	0.253	20.0
BD18970	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18970	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.226	0.226	0.211	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18970	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	22.5	22.5	5.22	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BD18970	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.277	0.272	0.104	0.0850 to 0.115	94.0	70.0 to 130	1.82	20.0
BD18970	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00395	0.004	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BD18970	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.207	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18970	Potassium, Total	mg/L	0.0234	0.367	10.0	11.1	11.1	10.5	8.50 to 11.5	100	70.0 to 130	0.00	20.0
BD18970	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0998	0.0996	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.201	20.0
BD18970	Silicon, Total	mg/L	0.000099	0.0440	1.00	16.2	16.2	1.06	0.850 to 1.15	110	70.0 to 130	0.00	20.0
BD18970	Sodium, Total	mg/L	0.0204	0.0880	5.00	17.3	17.3	5.36	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD18967	Sulfate	mg/L	0.0518	2.0	20.0	19.8	19.1	19.5	18.0 to 22.0	99.0	80.0 to 120	3.60	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB
Sample Date: 10/10/23 12:45
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond Equipment Blank-2

Laboratory ID Number: BD18967

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec		
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit	
BD18970	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.106	0.103	0.109	0.0850 to 0.115		106	70.0 to 130	2.87	20.0
BD18969	Total Organic Carbon	mg/L	0.142	1.00	10.0	10.4	10.4	25.5			104	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB

Sample Date: 10/10/23 12:45

Customer ID:

Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond Equipment Blank-2

Laboratory ID Number: BD18967

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18970	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.02	0.133	1.95	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BD18972	Solids, Dissolved	mg/L	0.0000	25.0			828	51.0	40.0 to 60.0			0.971	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-4

Location Code: WMWMILAP
Collected: 10/10/23 13:55
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18968

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:07		1.015	0.446	mg/L	0.030000	0.1015	
* Calcium, Total	10/17/23 13:42	10/19/23 16:36		10.15	205	mg/L	0.70035	4.06	
* Iron, Total	10/17/23 13:42	10/19/23 13:07		1.015	0.393	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 13:07		1.015	0.0672	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 13:07		1.015	35.9	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:07		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:07		1	13.3	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:07		1.015	6.20	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 13:07		1.015	30.1	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:07		1.015	0.449	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 18:24		10.15	222	mg/L	0.70035	4.06	
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:07		1.015	0.291	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:07		1.015	0.0664	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:07		1.015	35.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:07		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:07		1	13.3	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:07		1.015	6.20	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 15:07		1.015	29.6	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 18:13		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/17/23 13:42	10/17/23 18:13		1.015	0.0365	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/17/23 13:42	10/18/23 16:08		1.015	0.000178	mg/L	0.000112	0.000203	J
* Barium, Total	10/17/23 13:42	10/17/23 18:13		1.015	0.0194	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 16:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 18:13		1.015	0.000361	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 18:13		1.015	0.00342	mg/L	0.000068	0.000203	
* Lead, Total	10/17/23 13:42	10/17/23 18:13		1.015	0.0000689	mg/L	0.000068	0.000203	J
* Manganese, Total	10/17/23 13:42	10/18/23 11:55		5.075	1.81	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-4

Location Code: WMWMILAP
Collected: 10/10/23 13:55
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18968

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 18:13		1.015	7.56	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 16:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	0.000138	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	0.0166	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	0.000206	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	0.00345	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/18/23 11:32		5.075	1.83	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	7.53	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/24/23 18:14	10/24/23 22:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:03	10/18/23 17:03		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.50	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	116	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	796	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	116	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 14:36	10/13/23 14:36		1	1.12	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-4

Location Code: WMWMILAP
Collected: 10/10/23 13:55
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18968

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:25	10/18/23 09:25		2	21.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:39	10/18/23 11:39		1	0.182	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 13:11	10/12/23 13:11		32	429	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/10/23 13:51	10/10/23 13:51			996.98	uS/cm			FA
pH	10/10/23 13:51	10/10/23 13:51			6.36	SU			FA
Temperature	10/10/23 13:51	10/10/23 13:51			21.05	C			FA
Turbidity	10/10/23 13:51	10/10/23 13:51			4.65	NTU			FA
Sulfide	10/10/23 13:51	10/10/23 13:51			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 13:55
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-4

Laboratory ID Number: BD18968

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18972	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.0907	0.0919	0.0949	0.0850 to 0.115	90.7	70.0 to 130	1.31	20.0
BD18970	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0952	0.0925	0.0931	0.0850 to 0.115	36.1	70.0 to 130	2.88	20.0
BD18972	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.0995	0.104	0.0988	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD18970	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18972	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.113	0.113	0.112	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD18970	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.0993	0.0989	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BD18972	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.126	0.131	0.105	0.0850 to 0.115	99.4	70.0 to 130	3.89	20.0
BD18970	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.208	0.213	0.109	0.0850 to 0.115	99.0	70.0 to 130	2.38	20.0
BD18972	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD18970	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.105	0.107	0.104	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD18972	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	3.66	3.64	1.03	0.850 to 1.15	104	70.0 to 130	0.548	20.0
BD18970	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.12	1.12	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18972	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18970	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18972	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	171	176	4.93	4.25 to 5.75	20.0	70.0 to 130	2.88	20.0
BD18970	Calcium, Total	mg/L	-0.0102	0.152	5.00	53.9	54.1	5.04	4.25 to 5.75	162	70.0 to 130	0.370	20.0
BD18969	Chloride	mg/L	0.0392	1.00	10.0	18.6	18.8	10.2	9.00 to 11.0	92.8	80.0 to 120	1.07	20.0
BD18972	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0988	0.0988	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD18970	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0976	0.0960	0.103	0.0850 to 0.115	97.6	70.0 to 130	1.65	20.0
BD18972	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.107	0.106	0.105	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD18970	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0991	0.0977	0.106	0.0850 to 0.115	99.1	70.0 to 130	1.42	20.0
BD18969	Fluoride	mg/L	0.0389	0.125	2.50	2.77	2.83	2.60	2.25 to 2.75	105	80.0 to 120	2.14	20.0
BD18972	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	1.83	1.82	0.207	0.170 to 0.230	95.0	70.0 to 130	0.548	20.0
BD18970	Iron, Total	mg/L	0.00237	0.0176	0.2	3.96	3.95	0.208	0.170 to 0.230	95.0	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 13:55
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-4

Laboratory ID Number: BD18968

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18972	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD18970	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18972	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.379	0.385	0.207	0.170 to 0.230	103	70.0 to 130	1.57	20.0
BD18970	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.226	0.226	0.211	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18972	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	26.1	26.2	5.13	4.25 to 5.75	96.0	70.0 to 130	0.382	20.0
BD18970	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	22.5	22.5	5.22	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BD18972	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	1.48	1.48	0.103	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18970	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.277	0.272	0.104	0.0850 to 0.115	94.0	70.0 to 130	1.82	20.0
BD18970	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00395	0.004	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BD18972	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.284	0.285	0.209	0.170 to 0.230	103	70.0 to 130	0.351	20.0
BD18970	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.207	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18972	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	23.0	22.9	10.5	8.50 to 11.5	88.0	70.0 to 130	0.436	20.0
BD18970	Potassium, Total	mg/L	0.0234	0.367	10.0	11.1	11.1	10.5	8.50 to 11.5	100	70.0 to 130	0.00	20.0
BD18972	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.109	0.111	0.110	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD18970	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0998	0.0996	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.201	20.0
BD18972	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	4.65	4.64	1.06	0.850 to 1.15	105	70.0 to 130	0.215	20.0
BD18970	Silicon, Total	mg/L	0.000099	0.0440	1.00	16.2	16.2	1.06	0.850 to 1.15	110	70.0 to 130	0.00	20.0
BD18972	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	95.4	96.5	5.16	4.25 to 5.75	70.0	70.0 to 130	1.15	20.0
BD18970	Sodium, Total	mg/L	0.0204	0.0880	5.00	17.3	17.3	5.36	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD18972	Sulfate	mg/L	-0.0206	2.0	800	1290	1270	19.5	18.0 to 22.0	98.9	80.0 to 120	1.56	20.0
BD18972	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18970	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.106	0.103	0.109	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD18969	Total Organic Carbon	mg/L	0.142	1.00	10.0	10.4	10.4	25.5		104	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 13:55
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-4

Laboratory ID Number: BD18968

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18970	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.02	0.133	1.95	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BD18968	Solids, Dissolved	mg/L	0.0000	25.0			806	51.0	40.0 to 60.0			1.25	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-21

Location Code: WMWMILAP
Collected: 10/11/23 10:05
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18969

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	10/17/23 13:42	10/19/23 13:10		1.015	0.0915	mg/L	0.030000	0.1015	J	
* Calcium, Total	10/17/23 13:42	10/19/23 16:39		10.15	63.9	mg/L	0.70035	4.06		
* Iron, Total	10/17/23 13:42	10/19/23 13:10		1.015	0.342	mg/L	0.008120	0.0406		
* Lithium, Total	10/17/23 13:42	10/19/23 13:10		1.015	0.0567	mg/L	0.007105	0.01999956		
* Magnesium, Total	10/17/23 13:42	10/19/23 13:10		1.015	16.9	mg/L	0.021315	0.406		
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:10		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:10		1	18.4	mg/L				
* Silicon, Total	10/17/23 13:42	10/19/23 13:10		1.015	8.59	mg/L	0.02030	0.25375		
* Sodium, Total	10/17/23 13:42	10/19/23 16:39		10.15	104	mg/L	0.4060	4.06		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:10		1.015	0.0905	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 18:28		10.15	66.2	mg/L	0.70035	4.06		
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:10		1.015	0.337	mg/L	0.008120	0.0406		
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:10		1.015	0.0583	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:10		1.015	16.7	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:10		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:10		1	18.2	mg/L				
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:10		1.015	8.51	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/17/23 13:44	10/19/23 18:28		10.15	104	mg/L	0.4060	4.06		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/17/23 13:42	10/17/23 18:16		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/17/23 13:42	10/17/23 18:16		1.015	0.0117	mg/L	0.009135	0.05075	J	
* Arsenic, Total	10/17/23 13:42	10/18/23 16:12		1.015	0.000954	mg/L	0.000112	0.000203		
* Barium, Total	10/17/23 13:42	10/17/23 18:16		1.015	0.134	mg/L	0.000508	0.001015		
* Beryllium, Total	10/17/23 13:42	10/18/23 16:12		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/17/23 13:42	10/17/23 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/17/23 13:42	10/17/23 18:16		1.015	0.000220	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/17/23 13:42	10/17/23 18:16		1.015	0.000133	mg/L	0.000068	0.000203	J	
* Lead, Total	10/17/23 13:42	10/17/23 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/17/23 13:42	10/17/23 18:16		1.015	0.0553	mg/L	0.000152	0.001015		

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-21

Location Code: WMWMILAP
Collected: 10/11/23 10:05
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18969

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 18:16		1.015	2.84	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 16:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	0.00108	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	0.123	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	0.000235	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	0.0556	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	2.87	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/24/23 18:14	10/24/23 22:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:05	10/18/23 17:05		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/16/23 14:40	10/16/23 16:30		1	4.45	SU		2	
* Alkalinity	10/16/23 14:40	10/16/23 16:30		1	251	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	451	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	249	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/16/23 14:40	10/16/23 16:30		1	2.18	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 14:53	10/13/23 14:53		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-21

Location Code: WMWMILAP
Collected: 10/11/23 10:05
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18969

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:20	10/18/23 09:20		1	9.32	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:40	10/18/23 11:40		1	0.145	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 13:41	10/12/23 13:41		8	134	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/11/23 10:01	10/11/23 10:01			686.84	uS/cm			FA
pH	10/11/23 10:01	10/11/23 10:01			7.49	SU			FA
Temperature	10/11/23 10:01	10/11/23 10:01			17.67	C			FA
Turbidity	10/11/23 10:01	10/11/23 10:01			0.74	NTU			FA
Sulfide	10/11/23 10:01	10/11/23 10:01			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 10:05
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-21

Laboratory ID Number: BD18969

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18972	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.0907	0.0919	0.0949	0.0850 to 0.115	90.7	70.0 to 130	1.31	20.0
BD18970	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0952	0.0925	0.0931	0.0850 to 0.115	36.1	70.0 to 130	2.88	20.0
BD18972	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.0995	0.104	0.0988	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD18970	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18972	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.113	0.113	0.112	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD18970	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.0993	0.0989	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BD18972	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.126	0.131	0.105	0.0850 to 0.115	99.4	70.0 to 130	3.89	20.0
BD18970	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.208	0.213	0.109	0.0850 to 0.115	99.0	70.0 to 130	2.38	20.0
BD18972	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD18970	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.105	0.107	0.104	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD18972	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	3.66	3.64	1.03	0.850 to 1.15	104	70.0 to 130	0.548	20.0
BD18970	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.12	1.12	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18972	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18970	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18972	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	171	176	4.93	4.25 to 5.75	20.0	70.0 to 130	2.88	20.0
BD18970	Calcium, Total	mg/L	-0.0102	0.152	5.00	53.9	54.1	5.04	4.25 to 5.75	162	70.0 to 130	0.370	20.0
BD18969	Chloride	mg/L	0.0392	1.00	10.0	18.6	18.8	10.2	9.00 to 11.0	92.8	80.0 to 120	1.07	20.0
BD18972	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0988	0.0988	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD18970	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0976	0.0960	0.103	0.0850 to 0.115	97.6	70.0 to 130	1.65	20.0
BD18972	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.107	0.106	0.105	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD18970	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0991	0.0977	0.106	0.0850 to 0.115	99.1	70.0 to 130	1.42	20.0
BD18969	Fluoride	mg/L	0.0389	0.125	2.50	2.77	2.83	2.60	2.25 to 2.75	105	80.0 to 120	2.14	20.0
BD18972	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	1.83	1.82	0.207	0.170 to 0.230	95.0	70.0 to 130	0.548	20.0
BD18970	Iron, Total	mg/L	0.00237	0.0176	0.2	3.96	3.95	0.208	0.170 to 0.230	95.0	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 10:05
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-21

Laboratory ID Number: BD18969

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18972	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD18970	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18972	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.379	0.385	0.207	0.170 to 0.230	103	70.0 to 130	1.57	20.0
BD18970	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.226	0.226	0.211	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18972	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	26.1	26.2	5.13	4.25 to 5.75	96.0	70.0 to 130	0.382	20.0
BD18970	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	22.5	22.5	5.22	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BD18972	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	1.48	1.48	0.103	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18970	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.277	0.272	0.104	0.0850 to 0.115	94.0	70.0 to 130	1.82	20.0
BD18970	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00395	0.004	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BD18972	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.284	0.285	0.209	0.170 to 0.230	103	70.0 to 130	0.351	20.0
BD18970	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.207	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18972	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	23.0	22.9	10.5	8.50 to 11.5	88.0	70.0 to 130	0.436	20.0
BD18970	Potassium, Total	mg/L	0.0234	0.367	10.0	11.1	11.1	10.5	8.50 to 11.5	100	70.0 to 130	0.00	20.0
BD18972	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.109	0.111	0.110	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD18970	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0998	0.0996	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.201	20.0
BD18972	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	4.65	4.64	1.06	0.850 to 1.15	105	70.0 to 130	0.215	20.0
BD18970	Silicon, Total	mg/L	0.000099	0.0440	1.00	16.2	16.2	1.06	0.850 to 1.15	110	70.0 to 130	0.00	20.0
BD18972	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	95.4	96.5	5.16	4.25 to 5.75	70.0	70.0 to 130	1.15	20.0
BD18970	Sodium, Total	mg/L	0.0204	0.0880	5.00	17.3	17.3	5.36	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD18972	Sulfate	mg/L	-0.0206	2.0	800	1290	1270	19.5	18.0 to 22.0	98.9	80.0 to 120	1.56	20.0
BD18972	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18970	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.106	0.103	0.109	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD18969	Total Organic Carbon	mg/L	0.142	1.00	10.0	10.4	10.4	25.5		104	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 10:05
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-21

Laboratory ID Number: BD18969

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18969	Alkalinity	mg CaCO3/L					249	50.9	45.0 to 55.0			0.800	10.0
BD18970	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.02	0.133	1.95	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BD18972	Solids, Dissolved	mg/L	0.0000	25.0			828	51.0	40.0 to 60.0			0.971	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-14R

Location Code: WMWMILAP
Collected: 10/11/23 11:19
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18970

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:13		1.015	0.0756	mg/L	0.030000	0.1015	J
* Calcium, Total	10/17/23 13:42	10/19/23 16:42		10.15	45.8	mg/L	0.70035	4.06	RA
* Iron, Total	10/17/23 13:42	10/19/23 13:13		1.015	3.77	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 13:13		1.015	0.0199	mg/L	0.007105	0.01999956	J
* Magnesium, Total	10/17/23 13:42	10/19/23 13:13		1.015	17.4	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:13		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:13		1	32.3	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:13		1.015	15.1	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 13:13		1.015	12.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:13		1.015	0.0750	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/17/23 13:44	10/19/23 15:13		1.015	40.0	mg/L	0.070035	0.406	
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:13		1.015	3.58	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:13		1.015	0.0197	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:13		1.015	17.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:13		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:13		1	32.1	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:13		1.015	15.0	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 15:13		1.015	12.1	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 18:20		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/17/23 13:42	10/18/23 16:15		1.015	0.0591	mg/L	0.009135	0.05075	R
* Arsenic, Total	10/17/23 13:42	10/18/23 16:15		1.015	0.000171	mg/L	0.000112	0.000203	J
* Barium, Total	10/17/23 13:42	10/17/23 18:20		1.015	0.109	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 16:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/18/23 16:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/17/23 13:42	10/18/23 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/18/23 16:15		1.015	0.183	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-14R

Location Code: WMWMILAP
Collected: 10/11/23 11:19
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18970

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/18/23 16:15		1.015	1.08	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 16:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	0.000200	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	0.105	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	0.182	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	1.13	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/24/23 18:14	10/24/23 22:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:07	10/18/23 17:07		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.40	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	132	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	247	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	132	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 16:11	10/13/23 16:11		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-14R

Location Code: WMWMILAP
Collected: 10/11/23 11:19
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18970

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:39	10/18/23 09:39		1	8.26	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:52	10/18/23 11:52		1	0.168	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 13:14	10/12/23 13:14		3	52.3	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/11/23 11:15	10/11/23 11:15			347.08	uS/cm			FA
pH	10/11/23 11:15	10/11/23 11:15			6.30	SU			FA
Temperature	10/11/23 11:15	10/11/23 11:15			17.70	C			FA
Turbidity	10/11/23 11:15	10/11/23 11:15			2.74	NTU			FA
Sulfide	10/11/23 11:15	10/11/23 11:15			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 11:19
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-14R

Laboratory ID Number: BD18970

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD18972	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.0907	0.0919	0.0949	0.0850 to 0.115	90.7	70.0 to 130	1.31	20.0
BD18970	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0952	0.0925	0.0931	0.0850 to 0.115	36.1	70.0 to 130	2.88	20.0
BD18972	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.0995	0.104	0.0988	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD18970	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18972	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.113	0.113	0.112	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD18970	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.0993	0.0989	0.100	0.0850 to 0.115	99.1	70.0 to 130	0.404	20.0
BD18972	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.126	0.131	0.105	0.0850 to 0.115	99.4	70.0 to 130	3.89	20.0
BD18970	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.208	0.213	0.109	0.0850 to 0.115	99.0	70.0 to 130	2.38	20.0
BD18972	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD18970	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.105	0.107	0.104	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD18972	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	3.66	3.64	1.03	0.850 to 1.15	104	70.0 to 130	0.548	20.0
BD18970	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.12	1.12	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD18972	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18970	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD18972	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	171	176	4.93	4.25 to 5.75	20.0	70.0 to 130	2.88	20.0
BD18970	Calcium, Total	mg/L	-0.0102	0.152	5.00	53.9	54.1	5.04	4.25 to 5.75	162	70.0 to 130	0.370	20.0
BD18999	Chloride	mg/L	0.0577	1.00	10.0	17.0	16.6	10.1	9.00 to 11.0	102	80.0 to 120	2.38	20.0
BD18972	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0988	0.0988	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD18970	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0976	0.0960	0.103	0.0850 to 0.115	97.6	70.0 to 130	1.65	20.0
BD18972	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.107	0.106	0.105	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD18970	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0991	0.0977	0.106	0.0850 to 0.115	99.1	70.0 to 130	1.42	20.0
BD18999	Fluoride	mg/L	0.0452	0.125	2.50	2.78	2.77	2.52	2.25 to 2.75	102	80.0 to 120	0.360	20.0
BD18972	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	1.83	1.82	0.207	0.170 to 0.230	95.0	70.0 to 130	0.548	20.0
BD18970	Iron, Total	mg/L	0.00237	0.0176	0.2	3.96	3.95	0.208	0.170 to 0.230	95.0	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 11:19
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-14R

Laboratory ID Number: BD18970

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18972	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD18970	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD18972	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.379	0.385	0.207	0.170 to 0.230	103	70.0 to 130	1.57	20.0
BD18970	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.226	0.226	0.211	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BD18972	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	26.1	26.2	5.13	4.25 to 5.75	96.0	70.0 to 130	0.382	20.0
BD18970	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	22.5	22.5	5.22	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BD18972	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	1.48	1.48	0.103	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD18970	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.277	0.272	0.104	0.0850 to 0.115	94.0	70.0 to 130	1.82	20.0
BD18970	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00395	0.004	0.00394	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BD18972	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.284	0.285	0.209	0.170 to 0.230	103	70.0 to 130	0.351	20.0
BD18970	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.207	0.209	0.170 to 0.230	104	70.0 to 130	0.00	20.0
BD18972	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	23.0	22.9	10.5	8.50 to 11.5	88.0	70.0 to 130	0.436	20.0
BD18970	Potassium, Total	mg/L	0.0234	0.367	10.0	11.1	11.1	10.5	8.50 to 11.5	100	70.0 to 130	0.00	20.0
BD18972	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.109	0.111	0.110	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD18970	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0998	0.0996	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.201	20.0
BD18972	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	4.65	4.64	1.06	0.850 to 1.15	105	70.0 to 130	0.215	20.0
BD18970	Silicon, Total	mg/L	0.000099	0.0440	1.00	16.2	16.2	1.06	0.850 to 1.15	110	70.0 to 130	0.00	20.0
BD18972	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	95.4	96.5	5.16	4.25 to 5.75	70.0	70.0 to 130	1.15	20.0
BD18970	Sodium, Total	mg/L	0.0204	0.0880	5.00	17.3	17.3	5.36	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD18972	Sulfate	mg/L	-0.0206	2.0	800	1290	1270	19.5	18.0 to 22.0	98.9	80.0 to 120	1.56	20.0
BD18972	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18970	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.106	0.103	0.109	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD18997	Total Organic Carbon	mg/L	0.176	1.00	10.0	21.1	23.2	25.3		71.0	80.0 to 120	9.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 11:19
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-14R

Laboratory ID Number: BD18970

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD18970	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.02	0.133	1.95	1.80 to 2.20	101	90.0 to 110	0.00	15.0
BD18972	Solids, Dissolved	mg/L	0.0000	25.0			828	51.0	40.0 to 60.0			0.971	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-4

Location Code: WMWMILAPFB
Collected: 10/11/23 11:45
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18971

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	10/17/23 13:42	10/19/23 13:29		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/17/23 13:42	10/19/23 13:29		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	10/17/23 13:42	10/19/23 13:29		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/17/23 13:42	10/19/23 13:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/17/23 13:42	10/19/23 13:29		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:29		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:29		1	Not Detected	mg/L				
* Silicon, Total	10/17/23 13:42	10/19/23 13:29		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	10/17/23 13:42	10/19/23 13:29		1.015	Not Detected	mg/L	0.04060	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/17/23 13:42	10/17/23 18:43		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/17/23 13:42	10/17/23 18:43		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	10/17/23 13:42	10/18/23 16:37		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	10/17/23 13:42	10/17/23 18:43		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	10/17/23 13:42	10/18/23 16:37		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/17/23 13:42	10/17/23 18:43		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/17/23 13:42	10/17/23 18:43		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/17/23 13:42	10/17/23 18:43		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/17/23 13:42	10/17/23 18:43		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/17/23 13:42	10/17/23 18:43		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Potassium, Total	10/17/23 13:42	10/17/23 18:43		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	10/17/23 13:42	10/18/23 16:37		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/17/23 13:42	10/17/23 18:43		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 22:42		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: CES								
* Nitrogen, Nitrate/Nitrite	10/18/23 17:16	10/18/23 17:16		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	Not Detected	mg/L		25	U	

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-4

Location Code: WMWMILAPFB
Collected: 10/11/23 11:45
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18971

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 16:25	10/13/23 16:25		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:40	10/18/23 09:40		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:53	10/18/23 11:53		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 13:06	10/12/23 13:06		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 10/11/23 11:45
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond Field Blank-4

Laboratory ID Number: BD18971

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19000	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0902	0.0886	0.0931	0.0850 to 0.115	90.2	70.0 to 130	1.79	20.0
BD19000	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19000	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD19000	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.123	0.125	0.109	0.0850 to 0.115	104	70.0 to 130	1.61	20.0
BD19000	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD19000	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.07	1.08	1.03	0.850 to 1.15	107	70.0 to 130	0.930	20.0
BD19000	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.108	0.107	0.109	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19000	Calcium, Total	mg/L	-0.0102	0.152	5.00	248	267	5.04	4.25 to 5.75	380	70.0 to 130	7.38	20.0
BD18999	Chloride	mg/L	0.0577	1.00	10.0	17.0	16.6	10.1	9.00 to 11.0	102	80.0 to 120	2.38	20.0
BD19000	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0959	0.0967	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.831	20.0
BD19000	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0989	0.0985	0.106	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BD18999	Fluoride	mg/L	0.0452	0.125	2.50	2.78	2.77	2.52	2.25 to 2.75	102	80.0 to 120	0.360	20.0
BD19000	Iron, Total	mg/L	0.00237	0.0176	0.2	1.93	1.93	0.208	0.170 to 0.230	90.0	70.0 to 130	0.00	20.0
BD19000	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19000	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.309	0.310	0.211	0.170 to 0.230	108	70.0 to 130	0.323	20.0
BD19000	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	118	128	5.22	4.25 to 5.75	240	70.0 to 130	8.13	20.0
BD19000	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.193	0.194	0.104	0.0850 to 0.115	94.8	70.0 to 130	0.517	20.0
BD19000	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.00406	0.0039	0.00340 to 0.00460	99.2	70.0 to 130	2.24	20.0
BD19000	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.211	0.209	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD19000	Potassium, Total	mg/L	0.0234	0.367	10.0	20.3	20.5	10.5	8.50 to 11.5	99.0	70.0 to 130	0.980	20.0
BD19000	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0986	0.0997	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.11	20.0
BD19000	Silicon, Total	mg/L	0.000099	0.0440	1.00	10.8	10.7	1.06	0.850 to 1.15	104	70.0 to 130	0.930	20.0
BD19000	Sodium, Total	mg/L	0.0204	0.0880	5.00	110	120	5.36	4.25 to 5.75	220	70.0 to 130	8.70	20.0
BD18972	Sulfate	mg/L	-0.0206	2.0	800	1290	1270	19.5	18.0 to 22.0	98.9	80.0 to 120	1.56	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 10/11/23 11:45
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond Field Blank-4

Laboratory ID Number: BD18971

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Limit			Rec	Limit	Prec			
BD19000	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115		105	70.0 to 130		0.00	20.0
BD18997	Total Organic Carbon	mg/L	0.176	1.00	10.0	21.1	23.2	25.3			71.0	80.0 to 120		9.48	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 10/11/23 11:45

Customer ID:

Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond Field Blank-4

Laboratory ID Number: BD18971

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Limit	Prec	Prec Limit
BD18999	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	1.88	0.365	1.99	1.80 to 2.20	77.4	90.0 to 110	9.17	15.0
BD18972	Solids, Dissolved	mg/L	0.0000	25.0			828	51.0	40.0 to 60.0			0.971	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-16

Location Code: WMWMILAP
Collected: 10/11/23 14:15
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18972

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:32		1.015	2.63	mg/L	0.030000	0.1015	
* Calcium, Total	10/17/23 13:42	10/19/23 16:58		10.15	169	mg/L	0.70035	4.06	
* Iron, Total	10/17/23 13:42	10/19/23 13:32		1.015	1.73	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 13:32		1.015	0.171	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 13:32		1.015	21.7	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:32		1.015	0.0792	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:32		1	7.70	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:32		1.015	3.60	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 16:58		10.15	93.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:16		1.015	2.62	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 18:31		10.15	170	mg/L	0.70035	4.06	RA
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:16		1.015	1.64	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:16		1.015	0.173	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:16		1.015	21.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:16		1.015	0.0786	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:16		1	7.70	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:16		1.015	3.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 18:31		10.15	91.9	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 18:46		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 16:41		1.015	0.00334	mg/L	0.000112	0.000203	
* Aluminum, Total	10/17/23 13:42	10/17/23 18:46		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/17/23 13:42	10/17/23 18:46		1.015	0.0246	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 16:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 18:46		1.015	0.000239	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 18:46		1.015	0.00421	mg/L	0.000068	0.000203	
* Lead, Total	10/17/23 13:42	10/17/23 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/18/23 11:59		5.075	1.45	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-16

Location Code: WMWMILAP
Collected: 10/11/23 14:15
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18972

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 18:46		1.015	13.3	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 16:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	0.00443	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	0.0266	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	0.000208	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	0.00464	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/18/23 11:36		5.075	1.38	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	14.2	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 22:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:18	10/18/23 17:18		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.42	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	67.8	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/12/23 13:30	10/13/23 12:50		1	820	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	67.6	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 16:38	10/13/23 16:38		1	1.66	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-16

Location Code: WMWMILAP
Collected: 10/11/23 14:15
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18972

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:41	10/18/23 09:41		1	11.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:54	10/18/23 11:54		1	0.141	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/12/23 13:08	10/12/23 13:08		40	499	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/11/23 14:10	10/11/23 14:10			1038.58	uS/cm			FA
pH	10/11/23 14:10	10/11/23 14:10			6.63	SU			FA
Temperature	10/11/23 14:10	10/11/23 14:10			19.29	C			FA
Turbidity	10/11/23 14:10	10/11/23 14:10			0.92	NTU			FA
Sulfide	10/11/23 14:10	10/11/23 14:10			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 14:15
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-16

Laboratory ID Number: BD18972

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD18972	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.0907	0.0919	0.0949	0.0850 to 0.115	90.7	70.0 to 130	1.31	20.0
BD19000	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0902	0.0886	0.0931	0.0850 to 0.115	90.2	70.0 to 130	1.79	20.0
BD18972	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.0995	0.104	0.0988	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD19000	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD18972	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.113	0.113	0.112	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD19000	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD18972	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.126	0.131	0.105	0.0850 to 0.115	99.4	70.0 to 130	3.89	20.0
BD19000	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.123	0.125	0.109	0.0850 to 0.115	104	70.0 to 130	1.61	20.0
BD18972	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD19000	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD18972	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	3.66	3.64	1.03	0.850 to 1.15	104	70.0 to 130	0.548	20.0
BD19000	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.07	1.08	1.03	0.850 to 1.15	107	70.0 to 130	0.930	20.0
BD18972	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.107	0.107	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD19000	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.108	0.107	0.109	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD18972	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	171	176	4.93	4.25 to 5.75	20.0	70.0 to 130	2.88	20.0
BD19000	Calcium, Total	mg/L	-0.0102	0.152	5.00	248	267	5.04	4.25 to 5.75	380	70.0 to 130	7.38	20.0
BD18999	Chloride	mg/L	0.0577	1.00	10.0	17.0	16.6	10.1	9.00 to 11.0	102	80.0 to 120	2.38	20.0
BD18972	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0988	0.0988	0.102	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD19000	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0959	0.0967	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.831	20.0
BD18972	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.107	0.106	0.105	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD19000	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0989	0.0985	0.106	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BD18999	Fluoride	mg/L	0.0452	0.125	2.50	2.78	2.77	2.52	2.25 to 2.75	102	80.0 to 120	0.360	20.0
BD18972	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	1.83	1.82	0.207	0.170 to 0.230	95.0	70.0 to 130	0.548	20.0
BD19000	Iron, Total	mg/L	0.00237	0.0176	0.2	1.93	1.93	0.208	0.170 to 0.230	90.0	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 14:15
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-16

Laboratory ID Number: BD18972

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD18972	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.104	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD19000	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD18972	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.379	0.385	0.207	0.170 to 0.230	103	70.0 to 130	1.57	20.0
BD19000	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.309	0.310	0.211	0.170 to 0.230	108	70.0 to 130	0.323	20.0
BD18972	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	26.1	26.2	5.13	4.25 to 5.75	96.0	70.0 to 130	0.382	20.0
BD19000	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	118	128	5.22	4.25 to 5.75	240	70.0 to 130	8.13	20.0
BD18972	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	1.48	1.48	0.103	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD19000	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.193	0.194	0.104	0.0850 to 0.115	94.8	70.0 to 130	0.517	20.0
BD19000	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.00406	0.0039	0.00340 to 0.00460	99.2	70.0 to 130	2.24	20.0
BD18972	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.284	0.285	0.209	0.170 to 0.230	103	70.0 to 130	0.351	20.0
BD19000	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.211	0.209	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD18972	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	23.0	22.9	10.5	8.50 to 11.5	88.0	70.0 to 130	0.436	20.0
BD19000	Potassium, Total	mg/L	0.0234	0.367	10.0	20.3	20.5	10.5	8.50 to 11.5	99.0	70.0 to 130	0.980	20.0
BD18972	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.109	0.111	0.110	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19000	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0986	0.0997	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.11	20.0
BD18972	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	4.65	4.64	1.06	0.850 to 1.15	105	70.0 to 130	0.215	20.0
BD19000	Silicon, Total	mg/L	0.000099	0.0440	1.00	10.8	10.7	1.06	0.850 to 1.15	104	70.0 to 130	0.930	20.0
BD18972	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	95.4	96.5	5.16	4.25 to 5.75	70.0	70.0 to 130	1.15	20.0
BD19000	Sodium, Total	mg/L	0.0204	0.0880	5.00	110	120	5.36	4.25 to 5.75	220	70.0 to 130	8.70	20.0
BD18972	Sulfate	mg/L	-0.0206	2.0	800	1290	1270	19.5	18.0 to 22.0	98.9	80.0 to 120	1.56	20.0
BD18972	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD19000	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18997	Total Organic Carbon	mg/L	0.176	1.00	10.0	21.1	23.2	25.3		71.0	80.0 to 120	9.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 14:15
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-16

Laboratory ID Number: BD18972

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD18999	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	1.88	0.365	1.99	1.80 to 2.20	77.4	90.0 to 110	9.17	15.0
BD18972	Solids, Dissolved	mg/L	0.0000	25.0			828	51.0	40.0 to 60.0			0.971	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-12

Location Code: WMWMILAP
Collected: 10/11/23 13:08
Customer ID:
Submittal Date: 10/12/23 10:38

Laboratory ID Number: BD18973

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:20	10/18/23 17:20		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 16:53	10/13/23 16:53		1	1.46	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 13:08
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-12

Laboratory ID Number: BD18973

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD18997	Total Organic Carbon	mg/L	0.176	1.00	10.0	21.1	23.2	25.3		71.0	80.0 to 120	9.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 13:08
Customer ID:
Delivery Date: 10/12/23 10:38

Description: Miller Ash Pond - MW-12

Laboratory ID Number: BD18973

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD18999	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	1.88	0.365	1.99	1.80 to 2.20	77.4	90.0 to 110	9.17	15.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-1

Location Code: WMWMILAP
Collected: 10/11/23 13:10
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18993

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:35		1.015	0.0595	mg/L	0.030000	0.1015	J
* Calcium, Total	10/17/23 13:42	10/19/23 17:02		10.15	217	mg/L	0.70035	4.06	
* Iron, Total	10/17/23 13:42	10/19/23 17:02		10.15	10.6	mg/L	0.08120	0.406	
* Lithium, Total	10/17/23 13:42	10/19/23 13:35		1.015	0.192	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 13:35		1.015	33.8	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:35		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:35		1	14.4	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:35		1.015	6.72	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 17:02		10.15	213	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:32		1.015	0.0614	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/17/23 13:44	10/19/23 18:47		10.15	187	mg/L	0.70035	4.06	
* Iron, Dissolved	10/17/23 13:44	10/19/23 18:47		10.15	11.2	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:32		1.015	0.191	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:32		1.015	34.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:32		1	14.4	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:32		1.015	6.72	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 18:47		10.15	174	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 18:50		1.015	0.0120	mg/L	0.000710	0.001015	
* Aluminum, Total	10/17/23 13:42	10/17/23 18:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/17/23 13:42	10/18/23 16:45		1.015	0.00100	mg/L	0.000112	0.000203	
* Barium, Total	10/17/23 13:42	10/17/23 18:50		1.015	0.189	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 16:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 18:50		1.015	0.000805	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 18:50		1.015	0.000478	mg/L	0.000068	0.000203	
* Lead, Total	10/17/23 13:42	10/17/23 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 18:50		1.015	0.253	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-1

Location Code: WMWMILAP
Collected: 10/11/23 13:10
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18993

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 18:50		1.015	6.59	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 16:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	0.0105	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/18/23 14:43		1.015	0.000974	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	0.191	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/18/23 14:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	0.000423	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	0.307	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	6.31	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 22:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:22	10/18/23 17:22		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.51	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	259	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	1020	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	257	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	2.20	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 17:09	10/13/23 17:09		1	1.66	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-1

Location Code: WMWMILAP
Collected: 10/11/23 13:10
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18993

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:42	10/18/23 09:42		1	8.56	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:55	10/18/23 11:55		1	0.156	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 09:51	10/26/23 09:51		32	555	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/11/23 13:07	10/11/23 13:07			1358.38	uS/cm			FA
pH	10/11/23 13:07	10/11/23 13:07			7.96	SU			FA
Temperature	10/11/23 13:07	10/11/23 13:07			18.60	C			FA
Turbidity	10/11/23 13:07	10/11/23 13:07			3.39	NTU			FA
Sulfide	10/11/23 13:07	10/11/23 13:07			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 13:10
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-1

Laboratory ID Number: BD18993

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD19003	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.102	0.105	0.0949	0.0850 to 0.115	89.2	70.0 to 130	2.90	20.0
BD19000	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0902	0.0886	0.0931	0.0850 to 0.115	90.2	70.0 to 130	1.79	20.0
BD19003	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.103	0.103	0.0988	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19000	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19003	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.104	0.105	0.112	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BD19000	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD19003	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.350	0.349	0.105	0.0850 to 0.115	105	70.0 to 130	0.286	20.0
BD19000	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.123	0.125	0.109	0.0850 to 0.115	104	70.0 to 130	1.61	20.0
BD19003	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.112	0.112	0.106	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD19000	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD19003	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	1.14	1.15	1.03	0.850 to 1.15	104	70.0 to 130	0.873	20.0
BD19000	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.07	1.08	1.03	0.850 to 1.15	107	70.0 to 130	0.930	20.0
BD19003	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.112	0.107	0.108	0.0850 to 0.115	112	70.0 to 130	4.57	20.0
BD19000	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.108	0.107	0.109	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19003	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	39.0	39.4	4.93	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BD19000	Calcium, Total	mg/L	-0.0102	0.152	5.00	248	267	5.04	4.25 to 5.75	380	70.0 to 130	7.38	20.0
BD18999	Chloride	mg/L	0.0577	1.00	10.0	17.0	16.6	10.1	9.00 to 11.0	102	80.0 to 120	2.38	20.0
BD19003	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0995	0.102	0.102	0.0850 to 0.115	99.5	70.0 to 130	2.48	20.0
BD19000	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0959	0.0967	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.831	20.0
BD19003	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD19000	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0989	0.0985	0.106	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BD18999	Fluoride	mg/L	0.0452	0.125	2.50	2.78	2.77	2.52	2.25 to 2.75	102	80.0 to 120	0.360	20.0
BD19003	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	0.219	0.221	0.207	0.170 to 0.230	99.6	70.0 to 130	0.909	20.0
BD19000	Iron, Total	mg/L	0.00237	0.0176	0.2	1.93	1.93	0.208	0.170 to 0.230	90.0	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 13:10
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-1

Laboratory ID Number: BD18993

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD19000	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19003	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.338	0.339	0.207	0.170 to 0.230	108	70.0 to 130	0.295	20.0
BD19000	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.309	0.310	0.211	0.170 to 0.230	108	70.0 to 130	0.323	20.0
BD19003	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	10.6	10.7	5.13	4.25 to 5.75	101	70.0 to 130	0.939	20.0
BD19000	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	118	128	5.22	4.25 to 5.75	240	70.0 to 130	8.13	20.0
BD19003	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	0.114	0.117	0.103	0.0850 to 0.115	99.8	70.0 to 130	2.60	20.0
BD19000	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.193	0.194	0.104	0.0850 to 0.115	94.8	70.0 to 130	0.517	20.0
BD19000	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.00406	0.0039	0.00340 to 0.00460	99.2	70.0 to 130	2.24	20.0
BD19003	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.227	0.229	0.209	0.170 to 0.230	103	70.0 to 130	0.877	20.0
BD19000	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.211	0.209	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD19003	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	26.5	27.2	10.5	8.50 to 11.5	96.0	70.0 to 130	2.61	20.0
BD19000	Potassium, Total	mg/L	0.0234	0.367	10.0	20.3	20.5	10.5	8.50 to 11.5	99.0	70.0 to 130	0.980	20.0
BD19003	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.115	0.114	0.110	0.0850 to 0.115	115	70.0 to 130	0.873	20.0
BD19000	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0986	0.0997	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.11	20.0
BD19003	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	9.50	9.53	1.06	0.850 to 1.15	105	70.0 to 130	0.315	20.0
BD19000	Silicon, Total	mg/L	0.000099	0.0440	1.00	10.8	10.7	1.06	0.850 to 1.15	104	70.0 to 130	0.930	20.0
BD19003	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	535	527	5.16	4.25 to 5.75	60.0	70.0 to 130	1.51	20.0
BD19000	Sodium, Total	mg/L	0.0204	0.0880	5.00	110	120	5.36	4.25 to 5.75	220	70.0 to 130	8.70	20.0
BD19001	Sulfate	mg/L	0.121	2.0	1000	1650	1630	20.1	18.0 to 22.0	101	80.0 to 120	1.22	20.0
BD19003	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD19000	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18997	Total Organic Carbon	mg/L	0.176	1.00	10.0	21.1	23.2	25.3		71.0	80.0 to 120	9.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 13:10
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-1

Laboratory ID Number: BD18993

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD18999	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	1.88	0.365	1.99	1.80 to 2.20	77.4	90.0 to 110	9.17	15.0
BD19001	Solids, Dissolved	mg/L	0.0000	25.0			1070	52.0	40.0 to 60.0			2.84	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-36HR

Location Code: WMWMILAP
Collected: 10/12/23 11:55
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18994

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:38		1.015	0.158	mg/L	0.030000	0.1015	
* Calcium, Total	10/17/23 13:42	10/19/23 17:05		10.15	56.7	mg/L	0.70035	4.06	
* Iron, Total	10/17/23 13:42	10/19/23 13:38		1.015	0.227	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 13:38		1.015	0.290	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 13:38		1.015	18.7	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:38		1.015	0.124	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:38		1	11.4	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:38		1.015	5.31	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 17:08		101.5	723	mg/L	4.060	40.6	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:35		1.015	0.147	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 18:50		10.15	54.7	mg/L	0.70035	4.06	
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:35		1.015	0.185	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:35		1.015	0.300	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:35		1.015	16.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:35		1.015	0.116	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:35		1	11.4	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:35		1.015	5.33	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 18:53		101.5	697	mg/L	4.060	40.6	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 18:54		1.015	0.000912	mg/L	0.000710	0.001015	J
* Aluminum, Total	10/17/23 13:42	10/17/23 18:54		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/17/23 13:42	10/18/23 16:49		1.015	0.00325	mg/L	0.000112	0.000203	
* Barium, Total	10/17/23 13:42	10/17/23 18:54		1.015	0.0459	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 16:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 18:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 18:54		1.015	0.00632	mg/L	0.000203	0.001015	
* Cobalt, Total	10/17/23 13:42	10/17/23 18:54		1.015	0.000183	mg/L	0.000068	0.000203	J
* Lead, Total	10/17/23 13:42	10/17/23 18:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 18:54		1.015	0.0900	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-36HR

Location Code: WMWMILAP
Collected: 10/12/23 11:55
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18994

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 18:54		1.015	43.2	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 16:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 18:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	0.000913	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/18/23 14:46		1.015	0.00348	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	0.0453	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/18/23 14:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	0.00474	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	0.000212	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	0.0785	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	33.3	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 22:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:24	10/18/23 17:24		1	2.82	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.50	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	237	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	2220	mg/L		208.3	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	236	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	1.37	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 17:25	10/13/23 17:25		1	1.58	mg/L	1.00	2	J

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-36HR

Location Code: WMWMILAP
Collected: 10/12/23 11:55
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18994

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:53	10/18/23 09:53		50	555	mg/L	25.00	50	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:56	10/18/23 11:56		1	0.312	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 09:52	10/26/23 09:52		40	722	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/12/23 11:52	10/12/23 11:52			3558.57	uS/cm			FA
pH	10/12/23 11:52	10/12/23 11:52			6.91	SU			FA
Temperature	10/12/23 11:52	10/12/23 11:52			18.42	C			FA
Turbidity	10/12/23 11:52	10/12/23 11:52			2.81	NTU			FA
Sulfide	10/12/23 11:52	10/12/23 11:52			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/12/23 11:55
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-36HR

Laboratory ID Number: BD18994

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.102	0.105	0.0949	0.0850 to 0.115	89.2	70.0 to 130	2.90	20.0
BD19000	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0902	0.0886	0.0931	0.0850 to 0.115	90.2	70.0 to 130	1.79	20.0
BD19003	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.103	0.103	0.0988	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19000	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19003	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.104	0.105	0.112	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BD19000	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD19003	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.350	0.349	0.105	0.0850 to 0.115	105	70.0 to 130	0.286	20.0
BD19000	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.123	0.125	0.109	0.0850 to 0.115	104	70.0 to 130	1.61	20.0
BD19003	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.112	0.112	0.106	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD19000	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD19003	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	1.14	1.15	1.03	0.850 to 1.15	104	70.0 to 130	0.873	20.0
BD19000	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.07	1.08	1.03	0.850 to 1.15	107	70.0 to 130	0.930	20.0
BD19003	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.112	0.107	0.108	0.0850 to 0.115	112	70.0 to 130	4.57	20.0
BD19000	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.108	0.107	0.109	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19003	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	39.0	39.4	4.93	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BD19000	Calcium, Total	mg/L	-0.0102	0.152	5.00	248	267	5.04	4.25 to 5.75	380	70.0 to 130	7.38	20.0
BD18999	Chloride	mg/L	0.0577	1.00	10.0	17.0	16.6	10.1	9.00 to 11.0	102	80.0 to 120	2.38	20.0
BD19003	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0995	0.102	0.102	0.0850 to 0.115	99.5	70.0 to 130	2.48	20.0
BD19000	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0959	0.0967	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.831	20.0
BD19003	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD19000	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0989	0.0985	0.106	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BD18999	Fluoride	mg/L	0.0452	0.125	2.50	2.78	2.77	2.52	2.25 to 2.75	102	80.0 to 120	0.360	20.0
BD19003	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	0.219	0.221	0.207	0.170 to 0.230	99.6	70.0 to 130	0.909	20.0
BD19000	Iron, Total	mg/L	0.00237	0.0176	0.2	1.93	1.93	0.208	0.170 to 0.230	90.0	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/12/23 11:55
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-36HR

Laboratory ID Number: BD18994

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD19000	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19003	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.338	0.339	0.207	0.170 to 0.230	108	70.0 to 130	0.295	20.0
BD19000	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.309	0.310	0.211	0.170 to 0.230	108	70.0 to 130	0.323	20.0
BD19003	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	10.6	10.7	5.13	4.25 to 5.75	101	70.0 to 130	0.939	20.0
BD19000	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	118	128	5.22	4.25 to 5.75	240	70.0 to 130	8.13	20.0
BD19003	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	0.114	0.117	0.103	0.0850 to 0.115	99.8	70.0 to 130	2.60	20.0
BD19000	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.193	0.194	0.104	0.0850 to 0.115	94.8	70.0 to 130	0.517	20.0
BD19000	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.00406	0.0039	0.00340 to 0.00460	99.2	70.0 to 130	2.24	20.0
BD19003	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.227	0.229	0.209	0.170 to 0.230	103	70.0 to 130	0.877	20.0
BD19000	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.211	0.209	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD19003	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	26.5	27.2	10.5	8.50 to 11.5	96.0	70.0 to 130	2.61	20.0
BD19000	Potassium, Total	mg/L	0.0234	0.367	10.0	20.3	20.5	10.5	8.50 to 11.5	99.0	70.0 to 130	0.980	20.0
BD19003	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.115	0.114	0.110	0.0850 to 0.115	115	70.0 to 130	0.873	20.0
BD19000	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0986	0.0997	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.11	20.0
BD19003	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	9.50	9.53	1.06	0.850 to 1.15	105	70.0 to 130	0.315	20.0
BD19000	Silicon, Total	mg/L	0.000099	0.0440	1.00	10.8	10.7	1.06	0.850 to 1.15	104	70.0 to 130	0.930	20.0
BD19003	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	535	527	5.16	4.25 to 5.75	60.0	70.0 to 130	1.51	20.0
BD19000	Sodium, Total	mg/L	0.0204	0.0880	5.00	110	120	5.36	4.25 to 5.75	220	70.0 to 130	8.70	20.0
BD19001	Sulfate	mg/L	0.121	2.0	1000	1650	1630	20.1	18.0 to 22.0	101	80.0 to 120	1.22	20.0
BD19003	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD19000	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18997	Total Organic Carbon	mg/L	0.176	1.00	10.0	21.1	23.2	25.3		71.0	80.0 to 120	9.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/12/23 11:55
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-36HR

Laboratory ID Number: BD18994

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD18999	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	1.88	0.365	1.99	1.80 to 2.20	77.4	90.0 to 110	9.17	15.0
BD19001	Solids, Dissolved	mg/L	0.0000	25.0			1070	52.0	40.0 to 60.0			2.84	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-31H

Location Code: WMWMILAP
Collected: 10/9/23 15:23
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18995

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:41		1.015	0.0322	mg/L	0.030000	0.1015	J
* Calcium, Total	10/17/23 13:42	10/19/23 17:11		10.15	161	mg/L	0.70035	4.06	
* Iron, Total	10/17/23 13:42	10/19/23 13:41		1.015	2.43	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 13:41		1.015	0.122	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 17:11		10.15	64.8	mg/L	0.21315	4.06	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:41		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:41		1	21.0	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:41		1.015	9.79	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 17:11		10.15	104	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:39		1.015	0.0310	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/17/23 13:44	10/19/23 18:56		10.15	156	mg/L	0.70035	4.06	
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:39		1.015	0.412	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:39		1.015	0.122	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 18:56		10.15	61.4	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:39		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:39		1	20.2	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:39		1.015	9.46	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 18:56		10.15	95.6	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 18:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 16:52		1.015	0.000797	mg/L	0.000112	0.000203	
* Aluminum, Total	10/17/23 13:42	10/17/23 18:58		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/17/23 13:42	10/17/23 18:58		1.015	0.0355	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 16:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 18:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 18:58		1.015	0.000210	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 18:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 18:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 18:58		1.015	0.0342	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-31H

Location Code: WMWMILAP
Collected: 10/9/23 15:23
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18995

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 18:58		1.015	4.05	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 16:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 18:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	0.0101	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/17/23 13:44	10/18/23 14:50		1.015	0.000172	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	0.0344	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/18/23 14:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	0.000294	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	0.0353	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	4.26	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 22:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:26	10/18/23 17:26		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.51	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	257	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	836	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	256	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	1.10	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 17:42	10/13/23 17:42		1	Not Detected	mg/L	1.00	2	U

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-31H

Location Code: WMWMILAP
Collected: 10/9/23 15:23
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18995

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:45	10/18/23 09:45		1	13.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:58	10/18/23 11:58		1	0.114	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 09:53	10/26/23 09:53		25	374	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/9/23 15:20	10/9/23 15:20			1039.61	uS/cm			FA
pH	10/9/23 15:20	10/9/23 15:20			6.94	SU			FA
Temperature	10/9/23 15:20	10/9/23 15:20			19.87	C			FA
Turbidity	10/9/23 15:20	10/9/23 15:20			8.44	NTU			FA
Sulfide	10/9/23 15:20	10/9/23 15:20			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/9/23 15:23
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-31H

Laboratory ID Number: BD18995

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.102	0.105	0.0949	0.0850 to 0.115	89.2	70.0 to 130	2.90	20.0
BD19000	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0902	0.0886	0.0931	0.0850 to 0.115	90.2	70.0 to 130	1.79	20.0
BD19003	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.103	0.103	0.0988	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19000	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19003	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.104	0.105	0.112	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BD19000	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD19003	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.350	0.349	0.105	0.0850 to 0.115	105	70.0 to 130	0.286	20.0
BD19000	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.123	0.125	0.109	0.0850 to 0.115	104	70.0 to 130	1.61	20.0
BD19003	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.112	0.112	0.106	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD19000	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD19003	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	1.14	1.15	1.03	0.850 to 1.15	104	70.0 to 130	0.873	20.0
BD19000	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.07	1.08	1.03	0.850 to 1.15	107	70.0 to 130	0.930	20.0
BD19003	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.112	0.107	0.108	0.0850 to 0.115	112	70.0 to 130	4.57	20.0
BD19000	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.108	0.107	0.109	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19003	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	39.0	39.4	4.93	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BD19000	Calcium, Total	mg/L	-0.0102	0.152	5.00	248	267	5.04	4.25 to 5.75	380	70.0 to 130	7.38	20.0
BD18999	Chloride	mg/L	0.0577	1.00	10.0	17.0	16.6	10.1	9.00 to 11.0	102	80.0 to 120	2.38	20.0
BD19003	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0995	0.102	0.102	0.0850 to 0.115	99.5	70.0 to 130	2.48	20.0
BD19000	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0959	0.0967	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.831	20.0
BD19003	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD19000	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0989	0.0985	0.106	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BD18999	Fluoride	mg/L	0.0452	0.125	2.50	2.78	2.77	2.52	2.25 to 2.75	102	80.0 to 120	0.360	20.0
BD19003	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	0.219	0.221	0.207	0.170 to 0.230	99.6	70.0 to 130	0.909	20.0
BD19000	Iron, Total	mg/L	0.00237	0.0176	0.2	1.93	1.93	0.208	0.170 to 0.230	90.0	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/9/23 15:23
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-31H

Laboratory ID Number: BD18995

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD19000	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19003	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.338	0.339	0.207	0.170 to 0.230	108	70.0 to 130	0.295	20.0
BD19000	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.309	0.310	0.211	0.170 to 0.230	108	70.0 to 130	0.323	20.0
BD19003	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	10.6	10.7	5.13	4.25 to 5.75	101	70.0 to 130	0.939	20.0
BD19000	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	118	128	5.22	4.25 to 5.75	240	70.0 to 130	8.13	20.0
BD19003	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	0.114	0.117	0.103	0.0850 to 0.115	99.8	70.0 to 130	2.60	20.0
BD19000	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.193	0.194	0.104	0.0850 to 0.115	94.8	70.0 to 130	0.517	20.0
BD19000	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.00406	0.0039	0.00340 to 0.00460	99.2	70.0 to 130	2.24	20.0
BD19003	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.227	0.229	0.209	0.170 to 0.230	103	70.0 to 130	0.877	20.0
BD19000	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.211	0.209	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD19003	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	26.5	27.2	10.5	8.50 to 11.5	96.0	70.0 to 130	2.61	20.0
BD19000	Potassium, Total	mg/L	0.0234	0.367	10.0	20.3	20.5	10.5	8.50 to 11.5	99.0	70.0 to 130	0.980	20.0
BD19003	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.115	0.114	0.110	0.0850 to 0.115	115	70.0 to 130	0.873	20.0
BD19000	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0986	0.0997	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.11	20.0
BD19003	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	9.50	9.53	1.06	0.850 to 1.15	105	70.0 to 130	0.315	20.0
BD19000	Silicon, Total	mg/L	0.000099	0.0440	1.00	10.8	10.7	1.06	0.850 to 1.15	104	70.0 to 130	0.930	20.0
BD19003	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	535	527	5.16	4.25 to 5.75	60.0	70.0 to 130	1.51	20.0
BD19000	Sodium, Total	mg/L	0.0204	0.0880	5.00	110	120	5.36	4.25 to 5.75	220	70.0 to 130	8.70	20.0
BD19001	Sulfate	mg/L	0.121	2.0	1000	1650	1630	20.1	18.0 to 22.0	101	80.0 to 120	1.22	20.0
BD19003	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD19000	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18997	Total Organic Carbon	mg/L	0.176	1.00	10.0	21.1	23.2	25.3		71.0	80.0 to 120	9.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/9/23 15:23
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-31H

Laboratory ID Number: BD18995

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD18999	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	1.88	0.365	1.99	1.80 to 2.20	77.4	90.0 to 110	9.17	15.0
BD19001	Solids, Dissolved	mg/L	0.0000	25.0			1070	52.0	40.0 to 60.0			2.84	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-19HA

Location Code: WMWMILAP
Collected: 10/10/23 11:06
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18996

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:44		1.015	0.142	mg/L	0.030000	0.1015	
* Calcium, Total	10/17/23 13:42	10/19/23 13:44		1.015	11.9	mg/L	0.070035	0.406	
* Iron, Total	10/17/23 13:42	10/19/23 13:44		1.015	0.0159	mg/L	0.008120	0.0406	J
* Lithium, Total	10/17/23 13:42	10/19/23 13:44		1.015	0.106	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 13:44		1.015	4.09	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:44		1.015	0.00685	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:44		1	13.4	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:44		1.015	6.28	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 17:14		10.15	388	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:42		1.015	0.139	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 15:42		1.015	12.0	mg/L	0.070035	0.406	
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:42		1.015	0.103	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:42		1.015	4.18	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:42		1.015	0.00608	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:42		1	13.4	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:42		1.015	6.24	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 18:59		10.15	326	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 19:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 16:56		1.015	0.000964	mg/L	0.000112	0.000203	
* Aluminum, Total	10/17/23 13:42	10/18/23 16:56		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/17/23 13:42	10/17/23 19:02		1.015	0.0870	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 16:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 19:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/18/23 16:56		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/17/23 13:42	10/18/23 16:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 19:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/18/23 16:56		1.015	0.0176	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-19HA

Location Code: WMWMILAP
Collected: 10/10/23 11:06
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18996

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/18/23 16:56		1.015	8.08	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 16:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 19:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 16:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 16:57		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/18/23 14:54		1.015	0.000960	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 16:57		1.015	0.0961	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/18/23 14:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 16:57		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 16:57		1.015	0.0186	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 16:57		1.015	9.60	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/3/23 13:44	11/3/23 14:40		1.015	0.00374	mg/L	0.000508	0.001015	
* Thallium, Dissolved	10/17/23 13:44	10/17/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 23:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:27	10/18/23 17:27		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.51	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	531	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	858	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	523	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	7.79	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 17:55	10/13/23 17:55		1	4.00	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-19HA

Location Code: WMWMILAP
Collected: 10/10/23 11:06
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18996

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:54	10/18/23 09:54		25	103	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 11:59	10/18/23 11:59		1	2.07	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 09:55	10/26/23 09:55		4	83.5	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/10/23 11:02	10/10/23 11:02			1466.12	uS/cm			FA
pH	10/10/23 11:02	10/10/23 11:02			7.94	SU			FA
Temperature	10/10/23 11:02	10/10/23 11:02			24.30	C			FA
Turbidity	10/10/23 11:02	10/10/23 11:02			2.89	NTU			FA
Sulfide	10/10/23 11:02	10/10/23 11:02			8.0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 11:06
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-19HA

Laboratory ID Number: BD18996

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.102	0.105	0.0949	0.0850 to 0.115	89.2	70.0 to 130	2.90	20.0
BD19000	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0902	0.0886	0.0931	0.0850 to 0.115	90.2	70.0 to 130	1.79	20.0
BD19003	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.103	0.103	0.0988	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19000	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19003	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.104	0.105	0.112	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BD19000	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD19003	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.350	0.349	0.105	0.0850 to 0.115	105	70.0 to 130	0.286	20.0
BD19000	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.123	0.125	0.109	0.0850 to 0.115	104	70.0 to 130	1.61	20.0
BD19003	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.112	0.112	0.106	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD19000	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD19003	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	1.14	1.15	1.03	0.850 to 1.15	104	70.0 to 130	0.873	20.0
BD19000	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.07	1.08	1.03	0.850 to 1.15	107	70.0 to 130	0.930	20.0
BD19003	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.112	0.107	0.108	0.0850 to 0.115	112	70.0 to 130	4.57	20.0
BD19000	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.108	0.107	0.109	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19003	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	39.0	39.4	4.93	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BD19000	Calcium, Total	mg/L	-0.0102	0.152	5.00	248	267	5.04	4.25 to 5.75	380	70.0 to 130	7.38	20.0
BD18999	Chloride	mg/L	0.0577	1.00	10.0	17.0	16.6	10.1	9.00 to 11.0	102	80.0 to 120	2.38	20.0
BD19003	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0995	0.102	0.102	0.0850 to 0.115	99.5	70.0 to 130	2.48	20.0
BD19000	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0959	0.0967	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.831	20.0
BD19003	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD19000	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0989	0.0985	0.106	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BD18999	Fluoride	mg/L	0.0452	0.125	2.50	2.78	2.77	2.52	2.25 to 2.75	102	80.0 to 120	0.360	20.0
BD19003	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	0.219	0.221	0.207	0.170 to 0.230	99.6	70.0 to 130	0.909	20.0
BD19000	Iron, Total	mg/L	0.00237	0.0176	0.2	1.93	1.93	0.208	0.170 to 0.230	90.0	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 11:06
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-19HA

Laboratory ID Number: BD18996

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD19000	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19003	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.338	0.339	0.207	0.170 to 0.230	108	70.0 to 130	0.295	20.0
BD19000	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.309	0.310	0.211	0.170 to 0.230	108	70.0 to 130	0.323	20.0
BD19003	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	10.6	10.7	5.13	4.25 to 5.75	101	70.0 to 130	0.939	20.0
BD19000	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	118	128	5.22	4.25 to 5.75	240	70.0 to 130	8.13	20.0
BD19003	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	0.114	0.117	0.103	0.0850 to 0.115	99.8	70.0 to 130	2.60	20.0
BD19000	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.193	0.194	0.104	0.0850 to 0.115	94.8	70.0 to 130	0.517	20.0
BD19000	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.00406	0.0039	0.00340 to 0.00460	99.2	70.0 to 130	2.24	20.0
BD19003	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.227	0.229	0.209	0.170 to 0.230	103	70.0 to 130	0.877	20.0
BD19000	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.211	0.209	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD19003	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	26.5	27.2	10.5	8.50 to 11.5	96.0	70.0 to 130	2.61	20.0
BD19000	Potassium, Total	mg/L	0.0234	0.367	10.0	20.3	20.5	10.5	8.50 to 11.5	99.0	70.0 to 130	0.980	20.0
BD18997	Selenium, Dissolved	mg/L	0.0000133	0.00100	0.100	0.110	0.108	0.106	0.0850 to 0.115	94.7	70.0 to 130	1.83	20.0
BD19000	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0986	0.0997	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.11	20.0
BD19003	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	9.50	9.53	1.06	0.850 to 1.15	105	70.0 to 130	0.315	20.0
BD19000	Silicon, Total	mg/L	0.000099	0.0440	1.00	10.8	10.7	1.06	0.850 to 1.15	104	70.0 to 130	0.930	20.0
BD19003	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	535	527	5.16	4.25 to 5.75	60.0	70.0 to 130	1.51	20.0
BD19000	Sodium, Total	mg/L	0.0204	0.0880	5.00	110	120	5.36	4.25 to 5.75	220	70.0 to 130	8.70	20.0
BD19001	Sulfate	mg/L	0.121	2.0	1000	1650	1630	20.1	18.0 to 22.0	101	80.0 to 120	1.22	20.0
BD19003	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD19000	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18997	Total Organic Carbon	mg/L	0.176	1.00	10.0	21.1	23.2	25.3		71.0	80.0 to 120	9.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 11:06
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-19HA

Laboratory ID Number: BD18996

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD18999	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	1.88	0.365	1.99	1.80 to 2.20	77.4	90.0 to 110	9.17	15.0
BD19001	Solids, Dissolved	mg/L	0.0000	25.0			1070	52.0	40.0 to 60.0			2.84	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-34H

Location Code: WMWMILAP
Collected: 10/10/23 12:38
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18997

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:47		1.015	0.138	mg/L	0.030000	0.1015	
* Calcium, Total	10/17/23 13:42	10/19/23 13:47		1.015	15.5	mg/L	0.070035	0.406	
* Iron, Total	10/17/23 13:42	10/19/23 13:47		1.015	0.0255	mg/L	0.008120	0.0406	J
* Lithium, Total	10/17/23 13:42	10/19/23 13:47		1.015	0.132	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 13:47		1.015	4.55	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:47		1.015	0.00568	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:47		1	15.4	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:47		1.015	7.18	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/24/23 14:06		101.5	359	mg/L	4.060	40.6	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:45		1.015	0.131	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 15:45		1.015	14.5	mg/L	0.070035	0.406	
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:45		1.015	0.0356	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:45		1.015	0.130	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:45		1.015	4.29	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:45		1	15.5	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:45		1.015	7.23	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/24/23 14:09		101.5	366	mg/L	4.060	40.6	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 19:06		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 17:00		1.015	0.00223	mg/L	0.000112	0.000203	
* Aluminum, Total	10/17/23 13:42	10/17/23 19:06		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/17/23 13:42	10/17/23 19:06		1.015	0.0493	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 17:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 19:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 19:06		1.015	0.000273	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 19:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 19:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 19:06		1.015	0.0341	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Selenium was analyzed three times with inconclusive results. The first two results are listed below. The third result is reported above.
 First Dissolved Selenium result: 0.00772 mg/L
 Second Dissolved Selenium result: 0.0117 mg/L

Certificate Of Analysis

Description: Miller Ash Pond - MW-34H

Location Code: WMWMILAP
Collected: 10/10/23 12:38
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18997

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 19:06		1.015	7.93	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 17:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 19:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 17:00		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 17:00		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/18/23 14:58		1.015	0.00185	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 17:00		1.015	0.0479	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/18/23 14:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 17:00		1.015	0.000231	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 17:00		1.015	0.0312	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 17:00		1.015	7.30	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/9/23 10:47	11/9/23 12:21		1.015	0.0153	mg/L	0.000508	0.001015	
* Thallium, Dissolved	10/17/23 13:44	10/17/23 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 23:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:29	10/18/23 17:29		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.51	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	465	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	940	mg/L		100	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	458	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	7.31	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 18:09	10/13/23 18:09		1	14.0	mg/L	1.00	2	R

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Selenium was analyzed three times with inconclusive results. The first two results are listed below. The third result is reported above.
 First Dissolved Selenium result: 0.00772 mg/L
 Second Dissolved Selenium result: 0.0117 mg/L

Certificate Of Analysis

Description: Miller Ash Pond - MW-34H

Location Code: WMWMILAP
Collected: 10/10/23 12:38
Customer ID:
Submittal Date: 10/12/23 14:23

Laboratory ID Number: BD18997

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:56	10/18/23 09:56		25	121	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 12:00	10/18/23 12:00		1	0.337	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 09:56	10/26/23 09:56		10	177	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/10/23 12:34	10/10/23 12:34			1901.34	uS/cm			FA
pH	10/10/23 12:34	10/10/23 12:34			8.04	SU			FA
Temperature	10/10/23 12:34	10/10/23 12:34			18.07	C			FA
Turbidity	10/10/23 12:34	10/10/23 12:34			3.8	NTU			FA
Sulfide	10/10/23 12:34	10/10/23 12:34			7.0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Selenium was analyzed three times with inconclusive results. The first two results are listed below. The third result is reported above.
 First Dissolved Selenium result: 0.00772 mg/L
 Second Dissolved Selenium result: 0.0117 mg/L

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 12:38
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-34H

Laboratory ID Number: BD18997

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.102	0.105	0.0949	0.0850 to 0.115	89.2	70.0 to 130	2.90	20.0
BD19000	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0902	0.0886	0.0931	0.0850 to 0.115	90.2	70.0 to 130	1.79	20.0
BD19003	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.103	0.103	0.0988	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19000	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19003	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.104	0.105	0.112	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BD19000	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD19003	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.350	0.349	0.105	0.0850 to 0.115	105	70.0 to 130	0.286	20.0
BD19000	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.123	0.125	0.109	0.0850 to 0.115	104	70.0 to 130	1.61	20.0
BD19003	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.112	0.112	0.106	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD19000	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD19003	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	1.14	1.15	1.03	0.850 to 1.15	104	70.0 to 130	0.873	20.0
BD19000	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.07	1.08	1.03	0.850 to 1.15	107	70.0 to 130	0.930	20.0
BD19003	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.112	0.107	0.108	0.0850 to 0.115	112	70.0 to 130	4.57	20.0
BD19000	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.108	0.107	0.109	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19003	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	39.0	39.4	4.93	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BD19000	Calcium, Total	mg/L	-0.0102	0.152	5.00	248	267	5.04	4.25 to 5.75	380	70.0 to 130	7.38	20.0
BD18999	Chloride	mg/L	0.0577	1.00	10.0	17.0	16.6	10.1	9.00 to 11.0	102	80.0 to 120	2.38	20.0
BD19003	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0995	0.102	0.102	0.0850 to 0.115	99.5	70.0 to 130	2.48	20.0
BD19000	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0959	0.0967	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.831	20.0
BD19003	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD19000	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0989	0.0985	0.106	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BD18999	Fluoride	mg/L	0.0452	0.125	2.50	2.78	2.77	2.52	2.25 to 2.75	102	80.0 to 120	0.360	20.0
BD19003	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	0.219	0.221	0.207	0.170 to 0.230	99.6	70.0 to 130	0.909	20.0
BD19000	Iron, Total	mg/L	0.00237	0.0176	0.2	1.93	1.93	0.208	0.170 to 0.230	90.0	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Selenium was analyzed three times with inconclusive results. The first two results are listed below. The third result is reported above.
 First Dissolved Selenium result: 0.00772 mg/L
 Second Dissolved Selenium result: 0.0117 mg/L

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 12:38
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-34H

Laboratory ID Number: BD18997

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD19003	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD19000	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19003	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.338	0.339	0.207	0.170 to 0.230	108	70.0 to 130	0.295	20.0
BD19000	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.309	0.310	0.211	0.170 to 0.230	108	70.0 to 130	0.323	20.0
BD19003	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	10.6	10.7	5.13	4.25 to 5.75	101	70.0 to 130	0.939	20.0
BD19000	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	118	128	5.22	4.25 to 5.75	240	70.0 to 130	8.13	20.0
BD19003	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	0.114	0.117	0.103	0.0850 to 0.115	99.8	70.0 to 130	2.60	20.0
BD19000	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.193	0.194	0.104	0.0850 to 0.115	94.8	70.0 to 130	0.517	20.0
BD19000	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.00406	0.0039	0.00340 to 0.00460	99.2	70.0 to 130	2.24	20.0
BD19003	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.227	0.229	0.209	0.170 to 0.230	103	70.0 to 130	0.877	20.0
BD19000	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.211	0.209	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD19003	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	26.5	27.2	10.5	8.50 to 11.5	96.0	70.0 to 130	2.61	20.0
BD19000	Potassium, Total	mg/L	0.0234	0.367	10.0	20.3	20.5	10.5	8.50 to 11.5	99.0	70.0 to 130	0.980	20.0
BD18997	Selenium, Dissolved	mg/L	0.0000133	0.00100	0.100	0.110	0.108	0.106	0.0850 to 0.115	94.7	70.0 to 130	1.83	20.0
BD19000	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0986	0.0997	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.11	20.0
BD19003	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	9.50	9.53	1.06	0.850 to 1.15	105	70.0 to 130	0.315	20.0
BD19000	Silicon, Total	mg/L	0.000099	0.0440	1.00	10.8	10.7	1.06	0.850 to 1.15	104	70.0 to 130	0.930	20.0
BD19003	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	535	527	5.16	4.25 to 5.75	60.0	70.0 to 130	1.51	20.0
BD19000	Sodium, Total	mg/L	0.0204	0.0880	5.00	110	120	5.36	4.25 to 5.75	220	70.0 to 130	8.70	20.0
BD19001	Sulfate	mg/L	0.121	2.0	1000	1650	1630	20.1	18.0 to 22.0	101	80.0 to 120	1.22	20.0
BD19003	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD19000	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18997	Total Organic Carbon	mg/L	0.176	1.00	10.0	21.1	23.2	25.3		71.0	80.0 to 120	9.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Selenium was analyzed three times with inconclusive results. The first two results are listed below. The third result is reported above.
 First Dissolved Selenium result: 0.00772 mg/L
 Second Dissolved Selenium result: 0.0117 mg/L

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 12:38
Customer ID:
Delivery Date: 10/12/23 14:23

Description: Miller Ash Pond - MW-34H

Laboratory ID Number: BD18997

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD18999	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	1.88	0.365	1.99	1.80 to 2.20	77.4	90.0 to 110	9.17	15.0
BD19001	Solids, Dissolved	mg/L	0.0000	25.0			1070	52.0	40.0 to 60.0			2.84	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Selenium was analyzed three times with inconclusive results. The first two results are listed below. The third result is reported above.
 First Dissolved Selenium result: 0.00772 mg/L
 Second Dissolved Selenium result: 0.0117 mg/L

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-5

Location Code: WMWMILAPFB
Collected: 10/10/23 13:05
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD18998

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	10/17/23 13:42	10/19/23 13:51		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/17/23 13:42	10/19/23 13:51		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	10/17/23 13:42	10/19/23 13:51		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/17/23 13:42	10/19/23 13:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/17/23 13:42	10/19/23 13:51		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:51		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:51		1	Not Detected	mg/L				
* Silicon, Total	10/17/23 13:42	10/19/23 13:51		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	10/17/23 13:42	10/19/23 13:51		1.015	0.0994	mg/L	0.04060	0.406	J	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/17/23 13:42	10/17/23 19:09		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Arsenic, Total	10/17/23 13:42	10/18/23 17:03		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Aluminum, Total	10/17/23 13:42	10/18/23 17:03		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Barium, Total	10/17/23 13:42	10/17/23 19:09		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	10/17/23 13:42	10/18/23 17:03		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/17/23 13:42	10/17/23 19:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/17/23 13:42	10/18/23 17:03		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/17/23 13:42	10/18/23 17:03		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/17/23 13:42	10/17/23 19:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/17/23 13:42	10/18/23 17:03		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Potassium, Total	10/17/23 13:42	10/18/23 17:03		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	10/17/23 13:42	10/18/23 17:03		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/17/23 13:42	10/17/23 19:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 23:09		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: CES								
* Nitrogen, Nitrate/Nitrite	10/18/23 17:31	10/18/23 17:31		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	Not Detected	mg/L		25	U	

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Field Blank-5

Location Code: WMWMILAPFB

Collected: 10/10/23 13:05

Customer ID:

Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD18998

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 18:56	10/13/23 18:56		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:48	10/18/23 09:48		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 12:01	10/18/23 12:01		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 09:44	10/26/23 09:44		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 10/10/23 13:05
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond Field Blank-5

Laboratory ID Number: BD18998

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19000	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0902	0.0886	0.0931	0.0850 to 0.115	90.2	70.0 to 130	1.79	20.0
BD19000	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19000	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD19000	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.123	0.125	0.109	0.0850 to 0.115	104	70.0 to 130	1.61	20.0
BD19000	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD19000	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.07	1.08	1.03	0.850 to 1.15	107	70.0 to 130	0.930	20.0
BD19000	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.108	0.107	0.109	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19000	Calcium, Total	mg/L	-0.0102	0.152	5.00	248	267	5.04	4.25 to 5.75	380	70.0 to 130	7.38	20.0
BD18999	Chloride	mg/L	0.0577	1.00	10.0	17.0	16.6	10.1	9.00 to 11.0	102	80.0 to 120	2.38	20.0
BD19000	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0959	0.0967	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.831	20.0
BD19000	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0989	0.0985	0.106	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BD18999	Fluoride	mg/L	0.0452	0.125	2.50	2.78	2.77	2.52	2.25 to 2.75	102	80.0 to 120	0.360	20.0
BD19000	Iron, Total	mg/L	0.00237	0.0176	0.2	1.93	1.93	0.208	0.170 to 0.230	90.0	70.0 to 130	0.00	20.0
BD19000	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19000	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.309	0.310	0.211	0.170 to 0.230	108	70.0 to 130	0.323	20.0
BD19000	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	118	128	5.22	4.25 to 5.75	240	70.0 to 130	8.13	20.0
BD19000	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.193	0.194	0.104	0.0850 to 0.115	94.8	70.0 to 130	0.517	20.0
BD19000	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.00406	0.0039	0.00340 to 0.00460	99.2	70.0 to 130	2.24	20.0
BD19000	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.211	0.209	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD19000	Potassium, Total	mg/L	0.0234	0.367	10.0	20.3	20.5	10.5	8.50 to 11.5	99.0	70.0 to 130	0.980	20.0
BD19000	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0986	0.0997	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.11	20.0
BD19000	Silicon, Total	mg/L	0.000099	0.0440	1.00	10.8	10.7	1.06	0.850 to 1.15	104	70.0 to 130	0.930	20.0
BD19000	Sodium, Total	mg/L	0.0204	0.0880	5.00	110	120	5.36	4.25 to 5.75	220	70.0 to 130	8.70	20.0
BD19001	Sulfate	mg/L	0.121	2.0	1000	1650	1630	20.1	18.0 to 22.0	101	80.0 to 120	1.22	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB
Sample Date: 10/10/23 13:05
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond Field Blank-5

Laboratory ID Number: BD18998

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD19000	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD18997	Total Organic Carbon	mg/L	0.176	1.00	10.0	21.1	23.2	25.3		71.0	80.0 to 120	9.48	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPFB

Sample Date: 10/10/23 13:05

Customer ID:

Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond Field Blank-5

Laboratory ID Number: BD18998

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD18999	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	1.88	0.365	1.99	1.80 to 2.20	77.4	90.0 to 110	9.17	15.0
BD19001	Solids, Dissolved	mg/L	0.0000	25.0			1070	52.0	40.0 to 60.0			2.84	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-2

Location Code: WMWMILAP
Collected: 10/10/23 14:06
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD18999

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 13:54		1.015	0.173	mg/L	0.030000	0.1015	
* Calcium, Total	10/17/23 13:42	10/19/23 17:21		10.15	278	mg/L	0.70035	4.06	
* Iron, Total	10/17/23 13:42	10/19/23 17:24		101.5	186	mg/L	0.8120	4.06	
* Lithium, Total	10/17/23 13:42	10/19/23 13:54		1.015	0.220	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 17:21		10.15	175	mg/L	0.21315	4.06	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:54		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:54		1	20.1	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 13:54		1.015	9.39	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 17:21		10.15	158	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:48		1.015	0.177	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 19:06		10.15	268	mg/L	0.70035	4.06	
* Iron, Dissolved	10/17/23 13:44	10/19/23 19:09		101.5	200	mg/L	0.8120	4.06	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:48		1.015	0.222	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 19:06		10.15	163	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:48		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:48		1	21.2	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:48		1.015	9.90	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 19:06		10.15	131	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 19:13		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 17:07		1.015	0.00403	mg/L	0.000112	0.000203	
* Aluminum, Total	10/17/23 13:42	10/17/23 19:13		1.015	0.0165	mg/L	0.009135	0.05075	J
* Barium, Total	10/17/23 13:42	10/17/23 19:13		1.015	0.0164	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 17:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 19:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 19:13		1.015	0.000268	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 19:13		1.015	0.0451	mg/L	0.000068	0.000203	
* Lead, Total	10/17/23 13:42	10/17/23 19:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/18/23 12:02		5.075	3.35	mg/L	0.000761	0.005075	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-2

Location Code: WMWMILAP
Collected: 10/10/23 14:06
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD18999

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 19:13		1.015	4.56	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 17:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 19:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 17:04		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 17:04		1.015	0.0159	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/17/23 13:44	10/18/23 15:01		1.015	0.00469	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 17:04		1.015	0.0158	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/18/23 15:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 17:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 17:04		1.015	0.0529	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/17/23 13:44	10/17/23 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/18/23 11:47		5.075	3.54	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 17:04		1.015	4.55	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 17:04		1.015	0.00108	mg/L	0.000508	0.001015	
* Thallium, Dissolved	10/17/23 13:44	10/17/23 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 23:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:33	10/18/23 17:33		1	0.333	mg/L as N	0.20	0.3	R
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.20	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	11.5	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	2390	mg/L		178.6	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	11.5	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 19:40	10/13/23 19:40		1	2.95	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-2

Location Code: WMWMILAP
Collected: 10/10/23 14:06
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD18999

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 09:50	10/18/23 09:50		1	6.83	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 12:02	10/18/23 12:02		1	0.232	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 10:06	10/26/23 10:06		80	1530	mg/L	48.0	160	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/10/23 14:03	10/10/23 14:03			3056.20	uS/cm			FA
pH	10/10/23 14:03	10/10/23 14:03			6.18	SU			FA
Temperature	10/10/23 14:03	10/10/23 14:03			20.44	C			FA
Turbidity	10/10/23 14:03	10/10/23 14:03			3.18	NTU			FA
Sulfide	10/10/23 14:03	10/10/23 14:03			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 14:06
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-2

Laboratory ID Number: BD18999

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD19003	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.102	0.105	0.0949	0.0850 to 0.115	89.2	70.0 to 130	2.90	20.0
BD19000	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0902	0.0886	0.0931	0.0850 to 0.115	90.2	70.0 to 130	1.79	20.0
BD19003	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.103	0.103	0.0988	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19000	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19003	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.104	0.105	0.112	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BD19000	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD19003	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.350	0.349	0.105	0.0850 to 0.115	105	70.0 to 130	0.286	20.0
BD19000	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.123	0.125	0.109	0.0850 to 0.115	104	70.0 to 130	1.61	20.0
BD19003	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.112	0.112	0.106	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD19000	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD19003	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	1.14	1.15	1.03	0.850 to 1.15	104	70.0 to 130	0.873	20.0
BD19000	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.07	1.08	1.03	0.850 to 1.15	107	70.0 to 130	0.930	20.0
BD19003	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.112	0.107	0.108	0.0850 to 0.115	112	70.0 to 130	4.57	20.0
BD19000	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.108	0.107	0.109	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19003	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	39.0	39.4	4.93	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BD19000	Calcium, Total	mg/L	-0.0102	0.152	5.00	248	267	5.04	4.25 to 5.75	380	70.0 to 130	7.38	20.0
BD18999	Chloride	mg/L	0.0577	1.00	10.0	17.0	16.6	10.1	9.00 to 11.0	102	80.0 to 120	2.38	20.0
BD19003	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0995	0.102	0.102	0.0850 to 0.115	99.5	70.0 to 130	2.48	20.0
BD19000	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0959	0.0967	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.831	20.0
BD19003	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD19000	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0989	0.0985	0.106	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BD18999	Fluoride	mg/L	0.0452	0.125	2.50	2.78	2.77	2.52	2.25 to 2.75	102	80.0 to 120	0.360	20.0
BD19003	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	0.219	0.221	0.207	0.170 to 0.230	99.6	70.0 to 130	0.909	20.0
BD19000	Iron, Total	mg/L	0.00237	0.0176	0.2	1.93	1.93	0.208	0.170 to 0.230	90.0	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 14:06
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-2

Laboratory ID Number: BD18999

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD19000	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19003	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.338	0.339	0.207	0.170 to 0.230	108	70.0 to 130	0.295	20.0
BD19000	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.309	0.310	0.211	0.170 to 0.230	108	70.0 to 130	0.323	20.0
BD19003	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	10.6	10.7	5.13	4.25 to 5.75	101	70.0 to 130	0.939	20.0
BD19000	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	118	128	5.22	4.25 to 5.75	240	70.0 to 130	8.13	20.0
BD19003	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	0.114	0.117	0.103	0.0850 to 0.115	99.8	70.0 to 130	2.60	20.0
BD19000	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.193	0.194	0.104	0.0850 to 0.115	94.8	70.0 to 130	0.517	20.0
BD19000	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.00406	0.0039	0.00340 to 0.00460	99.2	70.0 to 130	2.24	20.0
BD19003	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.227	0.229	0.209	0.170 to 0.230	103	70.0 to 130	0.877	20.0
BD19000	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.211	0.209	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD19003	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	26.5	27.2	10.5	8.50 to 11.5	96.0	70.0 to 130	2.61	20.0
BD19000	Potassium, Total	mg/L	0.0234	0.367	10.0	20.3	20.5	10.5	8.50 to 11.5	99.0	70.0 to 130	0.980	20.0
BD19003	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.115	0.114	0.110	0.0850 to 0.115	115	70.0 to 130	0.873	20.0
BD19000	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0986	0.0997	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.11	20.0
BD19003	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	9.50	9.53	1.06	0.850 to 1.15	105	70.0 to 130	0.315	20.0
BD19000	Silicon, Total	mg/L	0.000099	0.0440	1.00	10.8	10.7	1.06	0.850 to 1.15	104	70.0 to 130	0.930	20.0
BD19003	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	535	527	5.16	4.25 to 5.75	60.0	70.0 to 130	1.51	20.0
BD19000	Sodium, Total	mg/L	0.0204	0.0880	5.00	110	120	5.36	4.25 to 5.75	220	70.0 to 130	8.70	20.0
BD19001	Sulfate	mg/L	0.121	2.0	1000	1650	1630	20.1	18.0 to 22.0	101	80.0 to 120	1.22	20.0
BD19003	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD19000	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD19003	Total Organic Carbon	mg/L	0.131	1.00	10.0	13.6	12.5	25.3		102	80.0 to 120	8.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/10/23 14:06
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-2

Laboratory ID Number: BD18999

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD18999	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	1.88	0.365	1.99	1.80 to 2.20	77.4	90.0 to 110	9.17	15.0
BD19001	Solids, Dissolved	mg/L	0.0000	25.0			1070	52.0	40.0 to 60.0			2.84	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-30H

Location Code: WMWMILAP
Collected: 10/11/23 09:05
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19000

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	10/17/23 13:42	10/19/23 13:57		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/17/23 13:42	10/19/23 17:27		10.15	229	mg/L	0.70035	4.06	RA	
* Iron, Total	10/17/23 13:42	10/19/23 13:57		1.015	1.75	mg/L	0.008120	0.0406		
* Lithium, Total	10/17/23 13:42	10/19/23 13:57		1.015	0.0922	mg/L	0.007105	0.01999956		
* Magnesium, Total	10/17/23 13:42	10/19/23 17:27		10.15	106	mg/L	0.21315	4.06	RA	
* Molybdenum, Total	10/17/23 13:42	10/19/23 13:57		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 13:57		1	20.9	mg/L				
* Silicon, Total	10/17/23 13:42	10/19/23 13:57		1.015	9.76	mg/L	0.02030	0.25375		
* Sodium, Total	10/17/23 13:42	10/19/23 17:27		10.15	99.0	mg/L	0.4060	4.06	RA	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:51		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/17/23 13:44	10/19/23 19:12		10.15	227	mg/L	0.70035	4.06		
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:51		1.015	1.73	mg/L	0.008120	0.0406		
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:51		1.015	0.0915	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 19:12		10.15	102	mg/L	0.21315	4.06		
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:51		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:51		1	20.6	mg/L				
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:51		1.015	9.63	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/17/23 13:44	10/19/23 19:12		10.15	91.6	mg/L	0.4060	4.06		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	10/17/23 13:42	10/17/23 19:17		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/17/23 13:42	10/17/23 19:17		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	10/17/23 13:42	10/18/23 17:11		1.015	0.000420	mg/L	0.000112	0.000203		
* Barium, Total	10/17/23 13:42	10/17/23 19:17		1.015	0.0192	mg/L	0.000508	0.001015		
* Beryllium, Total	10/17/23 13:42	10/18/23 17:11		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/17/23 13:42	10/17/23 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/17/23 13:42	10/17/23 19:17		1.015	0.000278	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/17/23 13:42	10/17/23 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/17/23 13:42	10/17/23 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/17/23 13:42	10/17/23 19:17		1.015	0.0982	mg/L	0.000152	0.001015		

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-30H

Location Code: WMWMILAP
Collected: 10/11/23 09:05
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19000

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 19:17		1.015	10.4	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 17:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/18/23 15:05		1.015	0.000378	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	0.0196	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/18/23 15:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	0.000263	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	0.105	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	10.8	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	0.000762	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	10/17/23 13:44	10/17/23 17:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 23:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:41	10/18/23 17:41		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.51	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	232	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	1340	mg/L		100	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	232	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 19:53	10/13/23 19:53		1	2.60	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-30H

Location Code: WMWMILAP
Collected: 10/11/23 09:05
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19000

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 10:21	10/18/23 10:21		4	53.5	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 12:14	10/18/23 12:14		1	0.172	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 10:07	10/26/23 10:07		40	713	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/11/23 09:02	10/11/23 09:02			1871.61	uS/cm			FA
pH	10/11/23 09:02	10/11/23 09:02			6.85	SU			FA
Temperature	10/11/23 09:02	10/11/23 09:02			17.95	C			FA
Turbidity	10/11/23 09:02	10/11/23 09:02			6.12	NTU			FA
Sulfide	10/11/23 09:02	10/11/23 09:02			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 09:05
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-30H

Laboratory ID Number: BD19000

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD19003	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.102	0.105	0.0949	0.0850 to 0.115	89.2	70.0 to 130	2.90	20.0
BD19000	Aluminum, Total	mg/L	-0.000543	0.0198	0.100	0.0902	0.0886	0.0931	0.0850 to 0.115	90.2	70.0 to 130	1.79	20.0
BD19003	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.103	0.103	0.0988	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19000	Antimony, Total	mg/L	0.000278	0.00100	0.100	0.108	0.104	0.106	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19003	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.104	0.105	0.112	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BD19000	Arsenic, Total	mg/L	0.0000035	0.000200	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD19003	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.350	0.349	0.105	0.0850 to 0.115	105	70.0 to 130	0.286	20.0
BD19000	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.123	0.125	0.109	0.0850 to 0.115	104	70.0 to 130	1.61	20.0
BD19003	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.112	0.112	0.106	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD19000	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD19003	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	1.14	1.15	1.03	0.850 to 1.15	104	70.0 to 130	0.873	20.0
BD19000	Boron, Total	mg/L	-0.000651	0.0650	1.00	1.07	1.08	1.03	0.850 to 1.15	107	70.0 to 130	0.930	20.0
BD19003	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.112	0.107	0.108	0.0850 to 0.115	112	70.0 to 130	4.57	20.0
BD19000	Cadmium, Total	mg/L	-0.0000117	0.000147	0.100	0.108	0.107	0.109	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19003	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	39.0	39.4	4.93	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BD19000	Calcium, Total	mg/L	-0.0102	0.152	5.00	248	267	5.04	4.25 to 5.75	380	70.0 to 130	7.38	20.0
BD19003	Chloride	mg/L	0.0552	1.00	800	1600	1620	10.1	9.00 to 11.0	91.5	80.0 to 120	1.24	20.0
BD19003	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0995	0.102	0.102	0.0850 to 0.115	99.5	70.0 to 130	2.48	20.0
BD19000	Chromium, Total	mg/L	-0.0000426	0.000440	0.100	0.0959	0.0967	0.103	0.0850 to 0.115	95.6	70.0 to 130	0.831	20.0
BD19003	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD19000	Cobalt, Total	mg/L	-0.0000010	0.000147	0.100	0.0989	0.0985	0.106	0.0850 to 0.115	98.9	70.0 to 130	0.405	20.0
BD19003	Fluoride	mg/L	0.0363	0.125	2.50	2.88	2.93	2.62	2.25 to 2.75	106	80.0 to 120	1.72	20.0
BD19003	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	0.219	0.221	0.207	0.170 to 0.230	99.6	70.0 to 130	0.909	20.0
BD19000	Iron, Total	mg/L	0.00237	0.0176	0.2	1.93	1.93	0.208	0.170 to 0.230	90.0	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 09:05
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-30H

Laboratory ID Number: BD19000

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD19000	Lead, Total	mg/L	0.0000014	0.000147	0.100	0.103	0.102	0.106	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19003	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.338	0.339	0.207	0.170 to 0.230	108	70.0 to 130	0.295	20.0
BD19000	Lithium, Total	mg/L	-0.000009	0.0154	0.200	0.309	0.310	0.211	0.170 to 0.230	108	70.0 to 130	0.323	20.0
BD19003	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	10.6	10.7	5.13	4.25 to 5.75	101	70.0 to 130	0.939	20.0
BD19000	Magnesium, Total	mg/L	-0.00889	0.0462	5.00	118	128	5.22	4.25 to 5.75	240	70.0 to 130	8.13	20.0
BD19003	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	0.114	0.117	0.103	0.0850 to 0.115	99.8	70.0 to 130	2.60	20.0
BD19000	Manganese, Total	mg/L	0.0000360	0.00033	0.100	0.193	0.194	0.104	0.0850 to 0.115	94.8	70.0 to 130	0.517	20.0
BD19000	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.00406	0.0039	0.00340 to 0.00460	99.2	70.0 to 130	2.24	20.0
BD19003	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.227	0.229	0.209	0.170 to 0.230	103	70.0 to 130	0.877	20.0
BD19000	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.211	0.209	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD19003	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	26.5	27.2	10.5	8.50 to 11.5	96.0	70.0 to 130	2.61	20.0
BD19000	Potassium, Total	mg/L	0.0234	0.367	10.0	20.3	20.5	10.5	8.50 to 11.5	99.0	70.0 to 130	0.980	20.0
BD19003	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.115	0.114	0.110	0.0850 to 0.115	115	70.0 to 130	0.873	20.0
BD19000	Selenium, Total	mg/L	0.000110	0.00100	0.100	0.0986	0.0997	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.11	20.0
BD19003	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	9.50	9.53	1.06	0.850 to 1.15	105	70.0 to 130	0.315	20.0
BD19000	Silicon, Total	mg/L	0.000099	0.0440	1.00	10.8	10.7	1.06	0.850 to 1.15	104	70.0 to 130	0.930	20.0
BD19003	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	535	527	5.16	4.25 to 5.75	60.0	70.0 to 130	1.51	20.0
BD19000	Sodium, Total	mg/L	0.0204	0.0880	5.00	110	120	5.36	4.25 to 5.75	220	70.0 to 130	8.70	20.0
BD19001	Sulfate	mg/L	0.121	2.0	1000	1650	1630	20.1	18.0 to 22.0	101	80.0 to 120	1.22	20.0
BD19003	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD19000	Thallium, Total	mg/L	-0.0000002	0.000147	0.100	0.105	0.105	0.109	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD19003	Total Organic Carbon	mg/L	0.131	1.00	10.0	13.6	12.5	25.3		102	80.0 to 120	8.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 09:05
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-30H

Laboratory ID Number: BD19000

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD19003	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.96	0.038	1.95	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19001	Solids, Dissolved	mg/L	0.0000	25.0			1070	52.0	40.0 to 60.0			2.84	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-11

Location Code: WMWMILAP
Collected: 10/11/23 11:06
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19001

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 14:19		1.015	0.0330	mg/L	0.030000	0.1015	J
* Calcium, Total	10/17/23 13:42	10/19/23 17:43		10.15	209	mg/L	0.70035	4.06	
* Iron, Total	10/17/23 13:42	10/19/23 17:43		10.15	5.76	mg/L	0.08120	0.406	
* Lithium, Total	10/17/23 13:42	10/19/23 14:19		1.015	0.257	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 17:43		10.15	91.3	mg/L	0.21315	4.06	
* Molybdenum, Total	10/17/23 13:42	10/19/23 14:19		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 14:19		1	11.5	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 14:19		1.015	5.39	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 17:43		10.15	93.2	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:54		1.015	0.0307	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/17/23 13:44	10/19/23 19:15		10.15	184	mg/L	0.70035	4.06	
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:54		1.015	2.40	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:54		1.015	0.331	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 19:15		10.15	66.8	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:54		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:54		1	9.16	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:54		1.015	4.28	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 19:15		10.15	89.6	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 19:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 17:40		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	10/17/23 13:42	10/17/23 19:47		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/17/23 13:42	10/17/23 19:47		1.015	0.0433	mg/L	0.000508	0.001015	
* Beryllium, Total	10/17/23 13:42	10/18/23 17:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 19:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 19:47		1.015	0.000302	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 19:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 19:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 19:47		1.015	0.0842	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-11

Location Code: WMWMILAP
Collected: 10/11/23 11:06
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19001

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 14:26	11/3/23 17:52		1.015	11.9	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 17:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 19:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 17:12		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 17:12		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/17/23 13:44	10/18/23 15:09		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/17/23 13:44	10/17/23 17:12		1.015	0.0366	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/18/23 15:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 17:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 17:12		1.015	0.000200	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	10/17/23 13:44	10/17/23 17:12		1.015	0.0672	mg/L	0.000152	0.001015	
* Potassium, Dissolved	11/3/23 13:44	11/3/23 14:55		1.015	16.5	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 17:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 23:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:42	10/18/23 17:42		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.50	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	165	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	1040	mg/L		100	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	165	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 20:06	10/13/23 20:06		1	2.95	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-11

Location Code: WMWMILAP
Collected: 10/11/23 11:06
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19001

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 10:15	10/18/23 10:15		1	6.13	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 12:15	10/18/23 12:15		1	0.117	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 10:09	10/26/23 10:09		50	643	mg/L	30.0	100	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/11/23 11:03	10/11/23 11:03			1649.17	uS/cm			FA
pH	10/11/23 11:03	10/11/23 11:03			6.59	SU			FA
Temperature	10/11/23 11:03	10/11/23 11:03			18.59	C			FA
Turbidity	10/11/23 11:03	10/11/23 11:03			8.24	NTU			FA
Sulfide	10/11/23 11:03	10/11/23 11:03			0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 11:06
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-11

Laboratory ID Number: BD19001

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.102	0.105	0.0949	0.0850 to 0.115	89.2	70.0 to 130	2.90	20.0
BD19003	Aluminum, Total	mg/L	-0.000363	0.0198	0.100	0.104	0.113	0.0926	0.0850 to 0.115	84.9	70.0 to 130	8.29	20.0
BD19003	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.103	0.103	0.0988	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19003	Antimony, Total	mg/L	0.000266	0.00100	0.100	0.107	0.120	0.106	0.0850 to 0.115	106	70.0 to 130	11.5	20.0
BD19003	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.104	0.105	0.112	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BD19003	Arsenic, Total	mg/L	0.0000034	0.000200	0.100	0.102	0.101	0.0988	0.0850 to 0.115	99.1	70.0 to 130	0.985	20.0
BD19003	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.350	0.349	0.105	0.0850 to 0.115	105	70.0 to 130	0.286	20.0
BD19003	Barium, Total	mg/L	0.0000125	0.00100	0.100	0.418	0.470	0.109	0.0850 to 0.115	116	70.0 to 130	11.7	20.0
BD19003	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.112	0.112	0.106	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD19003	Beryllium, Total	mg/L	0.0000122	0.000880	0.100	0.109	0.109	0.103	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD19003	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	1.14	1.15	1.03	0.850 to 1.15	104	70.0 to 130	0.873	20.0
BD19003	Boron, Total	mg/L	-0.000792	0.0650	1.00	1.14	1.13	1.03	0.850 to 1.15	104	70.0 to 130	0.881	20.0
BD19003	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.112	0.107	0.108	0.0850 to 0.115	112	70.0 to 130	4.57	20.0
BD19003	Cadmium, Total	mg/L	-0.0000023	0.000147	0.100	0.105	0.114	0.110	0.0850 to 0.115	105	70.0 to 130	8.22	20.0
BD19003	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	39.0	39.4	4.93	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BD19003	Calcium, Total	mg/L	-0.0131	0.152	5.00	38.4	38.3	5.10	4.25 to 5.75	108	70.0 to 130	0.261	20.0
BD19003	Chloride	mg/L	0.0552	1.00	800	1600	1620	10.1	9.00 to 11.0	91.5	80.0 to 120	1.24	20.0
BD19003	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0995	0.102	0.102	0.0850 to 0.115	99.5	70.0 to 130	2.48	20.0
BD19003	Chromium, Total	mg/L	-0.0000592	0.000440	0.100	0.0938	0.103	0.102	0.0850 to 0.115	93.3	70.0 to 130	9.35	20.0
BD19003	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD19003	Cobalt, Total	mg/L	0.0000030	0.000147	0.100	0.0977	0.106	0.105	0.0850 to 0.115	97.7	70.0 to 130	8.15	20.0
BD19003	Fluoride	mg/L	0.0363	0.125	2.50	2.88	2.93	2.62	2.25 to 2.75	106	80.0 to 120	1.72	20.0
BD19003	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	0.219	0.221	0.207	0.170 to 0.230	99.6	70.0 to 130	0.909	20.0
BD19003	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.261	0.253	0.206	0.170 to 0.230	101	70.0 to 130	3.11	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 11:06
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-11

Laboratory ID Number: BD19001

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD19003	Lead, Total	mg/L	0.0000119	0.000147	0.100	0.102	0.111	0.106	0.0850 to 0.115	102	70.0 to 130	8.45	20.0
BD19003	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.338	0.339	0.207	0.170 to 0.230	108	70.0 to 130	0.295	20.0
BD19003	Lithium, Total	mg/L	-0.000462	0.0154	0.200	0.347	0.349	0.208	0.170 to 0.230	106	70.0 to 130	0.575	20.0
BD19003	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	10.6	10.7	5.13	4.25 to 5.75	101	70.0 to 130	0.939	20.0
BD19003	Magnesium, Total	mg/L	-0.00614	0.0462	5.00	10.8	10.9	5.23	4.25 to 5.75	100	70.0 to 130	0.922	20.0
BD19003	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	0.114	0.117	0.103	0.0850 to 0.115	99.8	70.0 to 130	2.60	20.0
BD19003	Manganese, Total	mg/L	0.0000423	0.00033	0.100	0.109	0.119	0.105	0.0850 to 0.115	94.2	70.0 to 130	8.77	20.0
BD19003	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00417	0.0042	0.0039	0.00340 to 0.00460	104	70.0 to 130	0.717	20.0
BD19003	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.227	0.229	0.209	0.170 to 0.230	103	70.0 to 130	0.877	20.0
BD19003	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.226	0.224	0.208	0.170 to 0.230	102	70.0 to 130	0.889	20.0
BD19001	Potassium, Dissolved	mg/L	0.0275	0.367	10.0	25.8	25.8	10.5	8.50 to 11.5	93.0	70.0 to 130	0.00	20.0
BD19001	Potassium, Total	mg/L	-0.00812	0.367	10.0	21.0	21.1	10.6	8.50 to 11.5	91.0	70.0 to 130	0.475	20.0
BD19003	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.115	0.114	0.110	0.0850 to 0.115	115	70.0 to 130	0.873	20.0
BD19003	Selenium, Total	mg/L	0.0000185	0.00100	0.100	0.0989	0.0963	0.0994	0.0850 to 0.115	98.9	70.0 to 130	2.66	20.0
BD19003	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	9.50	9.53	1.06	0.850 to 1.15	105	70.0 to 130	0.315	20.0
BD19003	Silicon, Total	mg/L	0.00108	0.0440	1.00	8.82	8.83	1.05	0.850 to 1.15	100	70.0 to 130	0.113	20.0
BD19003	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	535	527	5.16	4.25 to 5.75	60.0	70.0 to 130	1.51	20.0
BD19003	Sodium, Total	mg/L	0.0124	0.0880	5.00	597	598	5.21	4.25 to 5.75	20.0	70.0 to 130	0.167	20.0
BD19001	Sulfate	mg/L	0.121	2.0	1000	1650	1630	20.1	18.0 to 22.0	101	80.0 to 120	1.22	20.0
BD19003	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD19003	Thallium, Total	mg/L	0.0000013	0.000147	0.100	0.103	0.112	0.106	0.0850 to 0.115	103	70.0 to 130	8.37	20.0
BD19003	Total Organic Carbon	mg/L	0.131	1.00	10.0	13.6	12.5	25.3		102	80.0 to 120	8.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/11/23 11:06
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-11

Laboratory ID Number: BD19001

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD19003	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.96	0.038	1.95	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19001	Solids, Dissolved	mg/L	0.0000	25.0			1070	52.0	40.0 to 60.0			2.84	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond Equipment Blank-1

Location Code: WMWMILAPEB
Collected: 10/11/23 12:35
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19002

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 14:22		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/17/23 13:42	10/19/23 14:22		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/17/23 13:42	10/19/23 14:22		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/17/23 13:42	10/19/23 14:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/17/23 13:42	10/19/23 14:22		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/17/23 13:42	10/19/23 14:22		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 14:22		1	Not Detected	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 14:22		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/17/23 13:42	10/19/23 14:22		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 19:51		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/17/23 13:42	10/18/23 17:44		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	10/17/23 13:42	10/17/23 19:51		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/17/23 13:42	10/17/23 19:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/17/23 13:42	10/18/23 17:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 19:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 19:51		1.015	0.000265	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 19:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 19:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 19:51		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	10/17/23 13:42	10/17/23 19:51		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/17/23 13:42	10/18/23 17:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 19:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 23:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: CES						
* Nitrogen, Nitrate/Nitrite	10/18/23 17:43	10/18/23 17:43		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Miller Ash Pond Equipment Blank-1

Location Code: WMWMILAPEB
Collected: 10/11/23 12:35
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19002

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 20:23	10/13/23 20:23		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 10:17	10/18/23 10:17		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 12:17	10/18/23 12:17		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 10:26	10/26/23 10:26		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB
Sample Date: 10/11/23 12:35
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond Equipment Blank-1

Laboratory ID Number: BD19002

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Aluminum, Total	mg/L	-0.000363	0.0198	0.100	0.104	0.113	0.0926	0.0850 to 0.115	84.9	70.0 to 130	8.29	20.0
BD19003	Antimony, Total	mg/L	0.000266	0.00100	0.100	0.107	0.120	0.106	0.0850 to 0.115	106	70.0 to 130	11.5	20.0
BD19003	Arsenic, Total	mg/L	0.0000034	0.000200	0.100	0.102	0.101	0.0988	0.0850 to 0.115	99.1	70.0 to 130	0.985	20.0
BD19003	Barium, Total	mg/L	0.0000125	0.00100	0.100	0.418	0.470	0.109	0.0850 to 0.115	116	70.0 to 130	11.7	20.0
BD19003	Beryllium, Total	mg/L	0.0000122	0.000880	0.100	0.109	0.109	0.103	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD19003	Boron, Total	mg/L	-0.000792	0.0650	1.00	1.14	1.13	1.03	0.850 to 1.15	104	70.0 to 130	0.881	20.0
BD19003	Cadmium, Total	mg/L	-0.0000023	0.000147	0.100	0.105	0.114	0.110	0.0850 to 0.115	105	70.0 to 130	8.22	20.0
BD19003	Calcium, Total	mg/L	-0.0131	0.152	5.00	38.4	38.3	5.10	4.25 to 5.75	108	70.0 to 130	0.261	20.0
BD19003	Chloride	mg/L	0.0552	1.00	800	1600	1620	10.1	9.00 to 11.0	91.5	80.0 to 120	1.24	20.0
BD19003	Chromium, Total	mg/L	-0.0000592	0.000440	0.100	0.0938	0.103	0.102	0.0850 to 0.115	93.3	70.0 to 130	9.35	20.0
BD19003	Cobalt, Total	mg/L	0.0000030	0.000147	0.100	0.0977	0.106	0.105	0.0850 to 0.115	97.7	70.0 to 130	8.15	20.0
BD19003	Fluoride	mg/L	0.0363	0.125	2.50	2.88	2.93	2.62	2.25 to 2.75	106	80.0 to 120	1.72	20.0
BD19003	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.261	0.253	0.206	0.170 to 0.230	101	70.0 to 130	3.11	20.0
BD19003	Lead, Total	mg/L	0.0000119	0.000147	0.100	0.102	0.111	0.106	0.0850 to 0.115	102	70.0 to 130	8.45	20.0
BD19003	Lithium, Total	mg/L	-0.000462	0.0154	0.200	0.347	0.349	0.208	0.170 to 0.230	106	70.0 to 130	0.575	20.0
BD19003	Magnesium, Total	mg/L	-0.00614	0.0462	5.00	10.8	10.9	5.23	4.25 to 5.75	100	70.0 to 130	0.922	20.0
BD19003	Manganese, Total	mg/L	0.0000423	0.00033	0.100	0.109	0.119	0.105	0.0850 to 0.115	94.2	70.0 to 130	8.77	20.0
BD19003	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00417	0.0042	0.0039	0.00340 to 0.00460	104	70.0 to 130	0.717	20.0
BD19003	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.226	0.224	0.208	0.170 to 0.230	102	70.0 to 130	0.889	20.0
BD19003	Potassium, Total	mg/L	0.0131	0.367	10.0	24.3	26.2	10.5	8.50 to 11.5	99.0	70.0 to 130	7.52	20.0
BD19003	Selenium, Total	mg/L	0.0000185	0.00100	0.100	0.0989	0.0963	0.0994	0.0850 to 0.115	98.9	70.0 to 130	2.66	20.0
BD19003	Silicon, Total	mg/L	0.00108	0.0440	1.00	8.82	8.83	1.05	0.850 to 1.15	100	70.0 to 130	0.113	20.0
BD19003	Sodium, Total	mg/L	0.0124	0.0880	5.00	597	598	5.21	4.25 to 5.75	20.0	70.0 to 130	0.167	20.0
BD19317	Sulfate	mg/L	-0.102	2.0	20.0	19.5	20.1	20.0	18.0 to 22.0	97.5	80.0 to 120	3.03	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB
Sample Date: 10/11/23 12:35
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond Equipment Blank-1

Laboratory ID Number: BD19002

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Limit			Limit	Prec				
BD19003	Thallium, Total	mg/L	0.0000013	0.000147	0.100	0.103	0.112	0.106	0.0850 to 0.115		103	70.0 to 130		8.37	20.0
BD19003	Total Organic Carbon	mg/L	0.131	1.00	10.0	13.6	12.5	25.3			102	80.0 to 120		8.43	20.0

Comments:

Batch QC Summary

Customer Account: WMWMILAPEB

Sample Date: 10/11/23 12:35

Customer ID:

Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond Equipment Blank-1

Laboratory ID Number: BD19002

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19003	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.96	0.038	1.95	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19001	Solids, Dissolved	mg/L	0.0000	25.0			1070	52.0	40.0 to 60.0			2.84	10.0

Comments:

Certificate Of Analysis

Description: Miller Ash Pond - MW-22D

Location Code: WMWMILAP
Collected: 10/12/23 11:54
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19003

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	10/17/23 13:42	10/19/23 14:25		1.015	0.102	mg/L	0.030000	0.1015	
* Calcium, Total	10/17/23 13:42	10/19/23 14:25		1.015	33.0	mg/L	0.070035	0.406	
* Iron, Total	10/17/23 13:42	10/19/23 14:25		1.015	0.0583	mg/L	0.008120	0.0406	
* Lithium, Total	10/17/23 13:42	10/19/23 14:25		1.015	0.135	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/17/23 13:42	10/19/23 14:25		1.015	5.79	mg/L	0.021315	0.406	
* Molybdenum, Total	10/17/23 13:42	10/19/23 14:25		1.015	0.0210	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/17/23 13:42	10/19/23 14:25		1	16.7	mg/L			
* Silicon, Total	10/17/23 13:42	10/19/23 14:25		1.015	7.82	mg/L	0.02030	0.25375	
* Sodium, Total	10/17/23 13:42	10/19/23 17:46		101.5	596	mg/L	4.060	40.6	RA
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	10/17/23 13:44	10/19/23 15:58		1.015	0.0952	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/17/23 13:44	10/19/23 15:58		1.015	34.2	mg/L	0.070035	0.406	
* Iron, Dissolved	10/17/23 13:44	10/19/23 15:58		1.015	0.0199	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	10/17/23 13:44	10/19/23 15:58		1.015	0.123	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/17/23 13:44	10/19/23 15:58		1.015	5.56	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/17/23 13:44	10/19/23 15:58		1.015	0.0202	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/17/23 13:44	10/19/23 15:58		1	18.1	mg/L			
* Silicon, Dissolved	10/17/23 13:44	10/19/23 15:58		1.015	8.45	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/17/23 13:44	10/19/23 19:25		101.5	532	mg/L	4.060	40.6	RA
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	10/17/23 13:42	10/17/23 19:55		1.015	0.000751	mg/L	0.000710	0.001015	J
* Arsenic, Total	10/17/23 13:42	10/18/23 17:48		1.015	0.00293	mg/L	0.000112	0.000203	
* Aluminum, Total	10/17/23 13:42	10/17/23 19:55		1.015	0.0191	mg/L	0.009135	0.05075	J
* Barium, Total	10/17/23 13:42	10/17/23 19:55		1.015	0.302	mg/L	0.000508	0.001015	R
* Beryllium, Total	10/17/23 13:42	10/18/23 17:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/17/23 13:42	10/17/23 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/17/23 13:42	10/17/23 19:55		1.015	0.000544	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/17/23 13:42	10/17/23 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/17/23 13:42	10/17/23 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/17/23 13:42	10/17/23 19:55		1.015	0.0148	mg/L	0.000152	0.001015	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22D

Location Code: WMWMILAP
Collected: 10/12/23 11:54
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19003

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/17/23 13:42	10/17/23 19:55		1.015	14.4	mg/L	0.169505	0.5075	
* Selenium, Total	10/17/23 13:42	10/18/23 17:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/17/23 13:42	10/17/23 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	0.0128	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/17/23 13:44	10/18/23 15:12		1.015	0.00315	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	0.245	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/17/23 13:44	10/18/23 15:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	0.0142	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	16.9	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/17/23 13:44	10/17/23 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	10/18/23 17:03	10/18/23 23:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	10/18/23 17:44	10/18/23 17:44		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity pH Endpoint	10/20/23 10:45	10/20/23 14:40		1	4.31	SU		2	
* Alkalinity	10/20/23 10:45	10/20/23 14:40		1	111	mg CaCO3/L		1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	10/13/23 10:42	10/17/23 13:24		1	1940	mg/L		250	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	107	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/20/23 10:45	10/20/23 14:40		1	4.18	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: JLR							
* Total Organic Carbon	10/13/23 20:36	10/13/23 20:36		1	3.40	mg/L	1.00	2	

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Miller Ash Pond - MW-22D

Location Code: WMWMILAP
Collected: 10/12/23 11:54
Customer ID:
Submittal Date: 10/12/23 14:24

Laboratory ID Number: BD19003

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	10/18/23 10:18	10/18/23 10:18		80	868	mg/L	40.00	80	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	10/18/23 12:18	10/18/23 12:18		1	0.234	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	10/26/23 10:27	10/26/23 10:27		16	224	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/12/23 11:51	10/12/23 11:51			4012.64	uS/cm			FA
pH	10/12/23 11:51	10/12/23 11:51			8.75	SU			FA
Temperature	10/12/23 11:51	10/12/23 11:51			18.61	C			FA
Turbidity	10/12/23 11:51	10/12/23 11:51			3.5	NTU			FA
Sulfide	10/12/23 11:51	10/12/23 11:51			1.0	mg/L			FA

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

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/12/23 11:54
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-22D

Laboratory ID Number: BD19003

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19003	Aluminum, Dissolved	mg/L	-0.00132	0.0198	0.100	0.102	0.105	0.0949	0.0850 to 0.115	89.2	70.0 to 130	2.90	20.0
BD19003	Aluminum, Total	mg/L	-0.000363	0.0198	0.100	0.104	0.113	0.0926	0.0850 to 0.115	84.9	70.0 to 130	8.29	20.0
BD19003	Antimony, Dissolved	mg/L	0.000297	0.00100	0.100	0.103	0.103	0.0988	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19003	Antimony, Total	mg/L	0.000266	0.00100	0.100	0.107	0.120	0.106	0.0850 to 0.115	106	70.0 to 130	11.5	20.0
BD19003	Arsenic, Dissolved	mg/L	0.0000394	0.000200	0.100	0.104	0.105	0.112	0.0850 to 0.115	101	70.0 to 130	0.957	20.0
BD19003	Arsenic, Total	mg/L	0.0000034	0.000200	0.100	0.102	0.101	0.0988	0.0850 to 0.115	99.1	70.0 to 130	0.985	20.0
BD19003	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.350	0.349	0.105	0.0850 to 0.115	105	70.0 to 130	0.286	20.0
BD19003	Barium, Total	mg/L	0.0000125	0.00100	0.100	0.418	0.470	0.109	0.0850 to 0.115	116	70.0 to 130	11.7	20.0
BD19003	Beryllium, Dissolved	mg/L	0.000232	0.000880	0.100	0.112	0.112	0.106	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD19003	Beryllium, Total	mg/L	0.0000122	0.000880	0.100	0.109	0.109	0.103	0.0850 to 0.115	109	70.0 to 130	0.00	20.0
BD19003	Boron, Dissolved	mg/L	-0.000916	0.0650	1.00	1.14	1.15	1.03	0.850 to 1.15	104	70.0 to 130	0.873	20.0
BD19003	Boron, Total	mg/L	-0.000792	0.0650	1.00	1.14	1.13	1.03	0.850 to 1.15	104	70.0 to 130	0.881	20.0
BD19003	Cadmium, Dissolved	mg/L	0.0000005	0.000147	0.100	0.112	0.107	0.108	0.0850 to 0.115	112	70.0 to 130	4.57	20.0
BD19003	Cadmium, Total	mg/L	-0.0000023	0.000147	0.100	0.105	0.114	0.110	0.0850 to 0.115	105	70.0 to 130	8.22	20.0
BD19003	Calcium, Dissolved	mg/L	-0.00514	0.152	5.00	39.0	39.4	4.93	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BD19003	Calcium, Total	mg/L	-0.0131	0.152	5.00	38.4	38.3	5.10	4.25 to 5.75	108	70.0 to 130	0.261	20.0
BD19003	Chloride	mg/L	0.0552	1.00	800	1600	1620	10.1	9.00 to 11.0	91.5	80.0 to 120	1.24	20.0
BD19003	Chromium, Dissolved	mg/L	0.0000083	0.000440	0.100	0.0995	0.102	0.102	0.0850 to 0.115	99.5	70.0 to 130	2.48	20.0
BD19003	Chromium, Total	mg/L	-0.0000592	0.000440	0.100	0.0938	0.103	0.102	0.0850 to 0.115	93.3	70.0 to 130	9.35	20.0
BD19003	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD19003	Cobalt, Total	mg/L	0.0000030	0.000147	0.100	0.0977	0.106	0.105	0.0850 to 0.115	97.7	70.0 to 130	8.15	20.0
BD19003	Fluoride	mg/L	0.0363	0.125	2.50	2.88	2.93	2.62	2.25 to 2.75	106	80.0 to 120	1.72	20.0
BD19003	Iron, Dissolved	mg/L	0.00184	0.0176	0.2	0.219	0.221	0.207	0.170 to 0.230	99.6	70.0 to 130	0.909	20.0
BD19003	Iron, Total	mg/L	-0.00158	0.0176	0.2	0.261	0.253	0.206	0.170 to 0.230	101	70.0 to 130	3.11	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/12/23 11:54
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-22D

Laboratory ID Number: BD19003

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BD19003	Lead, Dissolved	mg/L	0.0000029	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD19003	Lead, Total	mg/L	0.0000119	0.000147	0.100	0.102	0.111	0.106	0.0850 to 0.115	102	70.0 to 130	8.45	20.0
BD19003	Lithium, Dissolved	mg/L	-0.000257	0.0154	0.200	0.338	0.339	0.207	0.170 to 0.230	108	70.0 to 130	0.295	20.0
BD19003	Lithium, Total	mg/L	-0.000462	0.0154	0.200	0.347	0.349	0.208	0.170 to 0.230	106	70.0 to 130	0.575	20.0
BD19003	Magnesium, Dissolved	mg/L	0.00178	0.0462	5.00	10.6	10.7	5.13	4.25 to 5.75	101	70.0 to 130	0.939	20.0
BD19003	Magnesium, Total	mg/L	-0.00614	0.0462	5.00	10.8	10.9	5.23	4.25 to 5.75	100	70.0 to 130	0.922	20.0
BD19003	Manganese, Dissolved	mg/L	0.0000138	0.00033	0.100	0.114	0.117	0.103	0.0850 to 0.115	99.8	70.0 to 130	2.60	20.0
BD19003	Manganese, Total	mg/L	0.0000423	0.00033	0.100	0.109	0.119	0.105	0.0850 to 0.115	94.2	70.0 to 130	8.77	20.0
BD19003	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00417	0.0042	0.0039	0.00340 to 0.00460	104	70.0 to 130	0.717	20.0
BD19003	Molybdenum, Dissolved	mg/L	0.000316	0.0100	0.2	0.227	0.229	0.209	0.170 to 0.230	103	70.0 to 130	0.877	20.0
BD19003	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.226	0.224	0.208	0.170 to 0.230	102	70.0 to 130	0.889	20.0
BD19003	Potassium, Dissolved	mg/L	0.0648	0.367	10.0	26.5	27.2	10.5	8.50 to 11.5	96.0	70.0 to 130	2.61	20.0
BD19003	Potassium, Total	mg/L	0.0131	0.367	10.0	24.3	26.2	10.5	8.50 to 11.5	99.0	70.0 to 130	7.52	20.0
BD19003	Selenium, Dissolved	mg/L	0.0000781	0.00100	0.100	0.115	0.114	0.110	0.0850 to 0.115	115	70.0 to 130	0.873	20.0
BD19003	Selenium, Total	mg/L	0.0000185	0.00100	0.100	0.0989	0.0963	0.0994	0.0850 to 0.115	98.9	70.0 to 130	2.66	20.0
BD19003	Silicon, Dissolved	mg/L	-0.000084	0.0440	1.00	9.50	9.53	1.06	0.850 to 1.15	105	70.0 to 130	0.315	20.0
BD19003	Silicon, Total	mg/L	0.00108	0.0440	1.00	8.82	8.83	1.05	0.850 to 1.15	100	70.0 to 130	0.113	20.0
BD19003	Sodium, Dissolved	mg/L	0.0174	0.0880	5.00	535	527	5.16	4.25 to 5.75	60.0	70.0 to 130	1.51	20.0
BD19003	Sodium, Total	mg/L	0.0124	0.0880	5.00	597	598	5.21	4.25 to 5.75	20.0	70.0 to 130	0.167	20.0
BD19317	Sulfate	mg/L	-0.102	2.0	20.0	19.5	20.1	20.0	18.0 to 22.0	97.5	80.0 to 120	3.03	20.0
BD19003	Thallium, Dissolved	mg/L	0.0000007	0.000147	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD19003	Thallium, Total	mg/L	0.0000013	0.000147	0.100	0.103	0.112	0.106	0.0850 to 0.115	103	70.0 to 130	8.37	20.0
BD19003	Total Organic Carbon	mg/L	0.131	1.00	10.0	13.6	12.5	25.3		102	80.0 to 120	8.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWMILAP
Sample Date: 10/12/23 11:54
Customer ID:
Delivery Date: 10/12/23 14:24

Description: Miller Ash Pond - MW-22D

Laboratory ID Number: BD19003

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19003	Alkalinity	mg CaCO3/L					108	51.3	45.0 to 55.0			2.74	10.0
BD19003	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.96	0.038	1.95	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19003	Solids, Dissolved	mg/L	0.0000	25.0			1940	52.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Definitions

Project Number: WMWMILAP_1426

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
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
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.
R	Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification 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

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
	Collector: TJ Daugherty		Requested By: Greg Budd
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-13DR	09/26/2023	11:25	6	Groundwater		BD18198	<input checked="" type="checkbox"/>
MW-13SR	09/26/2023	14:05	6	Groundwater		BD18199	<input checked="" type="checkbox"/>
MW-15	09/26/2023	15:25	6	Groundwater		BD18200	<input checked="" type="checkbox"/>
MW-27HR	09/27/2023	11:15	6	Groundwater		BD18201	<input checked="" type="checkbox"/>
MW-28H	09/27/2023	12:30	6	Groundwater		BD18202	<input checked="" type="checkbox"/>
MW-9DR	09/27/2023	14:15	6	Groundwater		BD18203	<input checked="" type="checkbox"/>
MW-9SR	09/27/2023	15:12	6	Groundwater		BD18204	<input checked="" type="checkbox"/>
FB-1	09/27/2023	15:45	5	Field Blank		BD18205	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Bushy-Catton</i>	09/28/2023 08:44

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.2 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1426	pH Strip ID	10853-62410-10-9

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks
	Collector: Dallas Gentry		Requested By: Greg Budd
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-6V	10/03/2023	10:11	6	Groundwater		BD18579	<input checked="" type="checkbox"/>
MW-6	10/03/2023	11:25	6	Groundwater		BD18580	<input checked="" type="checkbox"/>
MW-7DR	10/03/2023	12:28	6	Groundwater		BD18581	<input checked="" type="checkbox"/>
MW-7SR	10/03/2023	13:39	6	Groundwater		BD18582	<input checked="" type="checkbox"/>
MW-20HS	10/03/2023	15:14	6	Groundwater		BD18583	<input checked="" type="checkbox"/>
MW-20HS dup	10/03/2023	15:14	6	Sample Duplicate		BD18584	<input checked="" type="checkbox"/>
FB-2	10/03/2023	16:00	5	Field Blank		BD18585	<input checked="" type="checkbox"/>
MW-32H	10/04/2023	09:02	6	Groundwater		BD18586	<input checked="" type="checkbox"/>
MW-20H	10/04/2023	10:55	6	Groundwater		BD18587	<input checked="" type="checkbox"/>
MW-5	10/04/2023	12:15	6	Groundwater		BD18588	<input checked="" type="checkbox"/>
MW-5 dup	10/04/2023	12:15	6	Sample Duplicate		BD18589	<input checked="" type="checkbox"/>
PZ-5	10/04/2023	13:21	6	Groundwater		BD18590	<input checked="" type="checkbox"/>
MW-33H	10/04/2023	14:57	6	Groundwater		BD18591	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Burdette</i>	10/05/2023 10:14

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.9 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1426	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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 Budd
Collector	TJ Daugherty	Requested By	Greg Budd
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: A HNO3 bottle was submitted for TOC/NO3-NO2 for BD18592 and will be re-collected for TOC/NO3-NO2. BC 10/11/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-12	10/02/2023	13:37	6	Groundwater		BD18592	<input checked="" type="checkbox"/>
MW-3S	10/03/2023	10:42	6	Groundwater		BD18593	<input checked="" type="checkbox"/>
MW-3D	10/03/2023	12:00	6	Groundwater		BD18594	<input checked="" type="checkbox"/>
MW-18H	10/03/2023	13:45	6	Groundwater		BD18595	<input checked="" type="checkbox"/>
MW-23	10/04/2023	11:10	6	Groundwater		BD18596	<input checked="" type="checkbox"/>
MW-23A	10/04/2023	12:00	6	Groundwater		BD18597	<input checked="" type="checkbox"/>
MW-22I	10/04/2023	14:23	6	Groundwater		BD18598	<input checked="" type="checkbox"/>
MW-22I Dup	10/04/2023	14:23	6	Sample Duplicate		BD18599	<input checked="" type="checkbox"/>
MW-22S	10/04/2023	15:35	6	Groundwater		BD18600	<input checked="" type="checkbox"/>
FB-3	10/04/2023	16:00	5	Field Blank		BD18601	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Bahe Alton</i>	10/05/2023 10:15

SmarTroll ID	7586-41445-5-4	Cooler Temp	2.3 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1426	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab


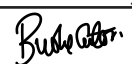
Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
	Collector: TJ Daugherty		Requested By: Greg Budd
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: MW-12 was recollected for bottle #4 only. TJD 10/12/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-37H	10/09/2023	13:20	6	Groundwater		BD18961	<input checked="" type="checkbox"/>
MW-10	10/09/2023	14:55	6	Groundwater		BD18962	<input checked="" type="checkbox"/>
MW-35H	10/10/2023	10:35	6	Groundwater		BD18963	<input checked="" type="checkbox"/>
MW-35H Dup	10/10/2023	10:35	6	Sample Duplicate		BD18964	<input checked="" type="checkbox"/>
MW-17H	10/10/2023	11:50	6	Groundwater		BD18965	<input checked="" type="checkbox"/>
MW-17H Dup	10/10/2023	11:50	6	Sample Duplicate		BD18966	<input checked="" type="checkbox"/>
EB-2	10/10/2023	12:45	5	Equipment Blank		BD18967	<input checked="" type="checkbox"/>
MW-4	10/10/2023	13:55	6	Groundwater		BD18968	<input checked="" type="checkbox"/>
MW-21	10/11/2023	10:05	6	Groundwater		BD18969	<input checked="" type="checkbox"/>
MW-14R	10/11/2023	11:19	6	Groundwater		BD18970	<input checked="" type="checkbox"/>
FB-4	10/11/2023	11:45	5	Field Blank		BD18971	<input checked="" type="checkbox"/>
MW-16	10/11/2023	14:15	6	Groundwater		BD18972	<input checked="" type="checkbox"/>
MW-12	10/11/2023	13:08	1	Groundwater		BD18973	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		10/12/2023 10:03

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.6 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1426	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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 Budd
Collector	Anthony Goggins	Requested By	Greg Budd
		Location	Miller Ash Pond

1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: Relinquish to Biology Shipping Lab 101223 1355

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-1	10/11/2023	13:10	6	Groundwater		BD18993	<input checked="" type="checkbox"/>
MW-36HR	10/12/2023	11:55	6	Groundwater		BD18994	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.10.12 14:17:20 -05'00'</small>	10/12/2023 14:17

SmarTroll ID	7586-41446-5-5	Cooler Temp	1.2 °C
Turbidity ID	9830-57039-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1426	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks
	Collector: Dallas Gentry		Requested By: Greg Budd
		Location	Miller Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-31H	10/09/2023	15:23	6	Groundwater		BD18995	<input checked="" type="checkbox"/>
MW-19HA	10/10/2023	11:06	6	Groundwater		BD18996	<input checked="" type="checkbox"/>
MW-34H	10/10/2023	12:38	6	Groundwater		BD18997	<input checked="" type="checkbox"/>
FB-5	10/10/2023	13:05	5	Field Blank		BD18998	<input checked="" type="checkbox"/>
MW-2	10/10/2023	14:06	6	Groundwater		BD18999	<input checked="" type="checkbox"/>
MW-30H	10/11/2023	09:05	6	Groundwater		BD19000	<input checked="" type="checkbox"/>
MW-11	10/11/2023	11:06	6	Groundwater		BD19001	<input checked="" type="checkbox"/>
EB-1	10/11/2023	12:35	5	Equipment Blank		BD19002	<input checked="" type="checkbox"/>
MW-22D	10/12/2023	11:54	6	Groundwater		BD19003	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Greg Budd</i>	10/12/2023 14:02

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.3 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1426	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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 Budd
	Collector: TJ Daugherty		Requested By: Greg Budd
		Location	Miller 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-15

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-13DR	09/26/2023	11:25	1	Groundwater		BD18206	<input checked="" type="checkbox"/>
MW-13SR	09/26/2023	14:05	1	Groundwater		BD18207	<input checked="" type="checkbox"/>
MW-15	09/26/2023	15:25	3	Groundwater		BD18208	<input checked="" type="checkbox"/>
MW-27HR	09/27/2023	11:15	1	Groundwater		BD18209	<input checked="" type="checkbox"/>
MW-28H	09/27/2023	12:30	1	Groundwater		BD18210	<input checked="" type="checkbox"/>
MW-9DR	09/27/2023	14:15	1	Groundwater		BD18211	<input checked="" type="checkbox"/>
MW-9SR	09/27/2023	15:12	1	Groundwater		BD18212	<input checked="" type="checkbox"/>
FB-1	09/27/2023	15:45	1	Field Blank		BD18213	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Bushy Carter</i>	09/28/2023 08:44

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1426	pH Strip ID	10853-62410-10-9

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks
Collector	Dallas Gentry	Requested By	Greg Budd
		Location	Miller 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-7SR

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-6V	10/03/2023	10:11	1	Groundwater		BD18602	<input checked="" type="checkbox"/>
MW-6	10/03/2023	11:25	1	Groundwater		BD18603	<input checked="" type="checkbox"/>
MW-7DR	10/03/2023	12:28	1	Groundwater		BD18604	<input checked="" type="checkbox"/>
MW-7SR	10/03/2023	13:39	3	Groundwater		BD18605	<input checked="" type="checkbox"/>
MW-20HS	10/03/2023	15:14	1	Groundwater		BD18606	<input checked="" type="checkbox"/>
MW-20HS dup	10/03/2023	15:14	1	Sample Duplicate		BD18607	<input checked="" type="checkbox"/>
FB-2	10/03/2023	16:00	1	Field Blank		BD18608	<input checked="" type="checkbox"/>
MW-32H	10/04/2023	09:02	1	Groundwater		BD18609	<input checked="" type="checkbox"/>
MW-20H	10/04/2023	10:55	1	Groundwater		BD18610	<input checked="" type="checkbox"/>
MW-5	10/04/2023	12:15	1	Groundwater		BD18611	<input checked="" type="checkbox"/>
MW-5 dup	10/04/2023	12:15	1	Sample Duplicate		BD18612	<input checked="" type="checkbox"/>
PZ-5	10/04/2023	13:21	1	Groundwater		BD18613	<input checked="" type="checkbox"/>
MW-33H	10/04/2023	14:57	1	Groundwater		BD18614	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Greg Budd</i>	10/05/2023 10:14

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1426	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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 Budd
	Collector: TJ Daugherty		Requested By: Greg Budd
		Location	Miller 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-22S

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-12	10/02/2023	13:37	1	Groundwater		BD18615	<input checked="" type="checkbox"/>
MW-3S	10/03/2023	10:42	1	Groundwater		BD18616	<input checked="" type="checkbox"/>
MW-3D	10/03/2023	12:00	1	Groundwater		BD18617	<input checked="" type="checkbox"/>
MW-18H	10/03/2023	13:45	1	Groundwater		BD18618	<input checked="" type="checkbox"/>
MW-23	10/04/2023	11:10	1	Groundwater		BD18619	<input checked="" type="checkbox"/>
MW-23A	10/04/2023	12:00	1	Groundwater		BD18620	<input checked="" type="checkbox"/>
MW-22I	10/04/2023	14:23	1	Groundwater		BD18621	<input checked="" type="checkbox"/>
MW-22I Dup	10/04/2023	14:23	1	Sample Duplicate		BD18622	<input checked="" type="checkbox"/>
MW-22S	10/04/2023	15:35	3	Groundwater		BD18623	<input checked="" type="checkbox"/>
FB-3	10/04/2023	16:00	1	Field Blank		BD18624	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Bahe Alton</i>	10/05/2023 10:15

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1426	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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 Budd
	Collector: TJ Daugherty		Requested By: Greg Budd
		Location	Miller 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	pH Check
MW-37H	10/09/2023	13:20	1	Groundwater		BD18974	<input checked="" type="checkbox"/>
MW-10	10/09/2023	14:55	1	Groundwater		BD18975	<input checked="" type="checkbox"/>
MW-35H	10/10/2023	10:35	1	Groundwater		BD18976	<input checked="" type="checkbox"/>
MW-35H Dup	10/10/2023	10:35	1	Sample Duplicate		BD18977	<input checked="" type="checkbox"/>
MW-17H	10/10/2023	11:50	1	Groundwater		BD18978	<input checked="" type="checkbox"/>
MW-17H Dup	10/10/2023	11:50	1	Sample Duplicate		BD18979	<input checked="" type="checkbox"/>
EB-2	10/10/2023	12:45	1	Equipment Blank		BD18980	<input checked="" type="checkbox"/>
MW-4	10/10/2023	13:55	1	Groundwater		BD18981	<input checked="" type="checkbox"/>
MW-21	10/11/2023	10:05	1	Groundwater		BD18982	<input checked="" type="checkbox"/>
MW-14R	10/11/2023	11:19	1	Groundwater		BD18983	<input checked="" type="checkbox"/>
FB-4	10/11/2023	11:45	1	Field Blank		BD18984	<input checked="" type="checkbox"/>
MW-16	10/11/2023	14:15	1	Groundwater		BD18985	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		10/12/2023 10:03

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1426	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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 Budd
	Collector		Anthony Goggins
		Location	Miller 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 Relinquish to Biology Shipping Lab 101223 1355

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-1	10/11/2023	13:10	1	Groundwater		BD19004	<input checked="" type="checkbox"/>
MW-36HR	10/12/2023	11:55	1	Groundwater		BD19005	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.10.12 14:17:40 -05'00'</small>	10/12/2023 14:17

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1426	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks
	Collector		Dallas Gentry
		Location	Miller 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	pH Check
MW-31H	10/09/2023	15:23	1	Groundwater		BD19006	<input checked="" type="checkbox"/>
MW-19HA	10/10/2023	11:06	1	Groundwater		BD19007	<input checked="" type="checkbox"/>
MW-34H	10/10/2023	12:38	1	Groundwater		BD19008	<input checked="" type="checkbox"/>
FB-5	10/10/2023	13:05	1	Field Blank		BD19009	<input checked="" type="checkbox"/>
MW-2	10/10/2023	14:06	1	Groundwater		BD19010	<input checked="" type="checkbox"/>
MW-30H	10/11/2023	09:05	1	Groundwater		BD19011	<input checked="" type="checkbox"/>
MW-11	10/11/2023	11:06	1	Groundwater		BD19012	<input checked="" type="checkbox"/>
EB-1	10/11/2023	12:35	1	Equipment Blank		BD19013	<input checked="" type="checkbox"/>
MW-22D	10/12/2023	11:54	1	Groundwater		BD19014	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Greg Budd</i>	10/12/2023 14:01

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1426	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



November 16, 2023

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWMILAP_1426
Pace Project No.: 30632749

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on October 18, 2023. 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,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWMILAP_1426
Pace Project No.: 30632749

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
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 #: PA014572023-03
New Hampshire/TNI Certification #: 297622
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 #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30632749001	BD18206 MW-13DR	Water	09/26/23 11:25	10/18/23 10:35
30632749002	BD18207 MW-13SR	Water	09/26/23 14:05	10/18/23 10:35
30632749003	BD18208 MW-15	Water	09/26/23 15:25	10/18/23 10:35
30632749004	BD18208 MW-15 MS	Water	09/26/23 15:25	10/18/23 10:35
30632749005	BD18208 MW-15 MSD	Water	09/26/23 15:25	10/18/23 10:35
30632749006	BD18209 MW-27HR	Water	09/27/23 11:15	10/18/23 10:35
30632749007	BD18210 MW-28H	Water	09/27/23 12:30	10/18/23 10:35
30632749008	BD18211 MW-9DR	Water	09/27/23 14:15	10/18/23 10:35
30632749009	BD18212 MW-9SR	Water	09/27/23 15:12	10/18/23 10:35
30632749010	BD18213 FB-1	Water	09/27/23 15:45	10/18/23 10:35
30632749011	BD18602 MW-6V	Water	10/03/23 10:11	10/18/23 10:35
30632749012	BD18603 MW-6	Water	10/03/23 11:25	10/18/23 10:35
30632749013	BD18604 MW-7DR	Water	10/03/23 12:28	10/18/23 10:35
30632749014	BD18605 MW-7SR	Water	10/03/23 13:39	10/18/23 10:35
30632749015	BD18605 MW-7SR MS	Water	10/03/23 13:39	10/18/23 10:35
30632749016	BD18605 MW-7SR MSD	Water	10/03/23 13:39	10/18/23 10:35
30632749017	BD18606 MW-20HS	Water	10/03/23 15:14	10/18/23 10:35
30632749018	BD18607 MW-20HS Dup	Water	10/03/23 15:14	10/18/23 10:35
30632749019	BD18608 FB-2	Water	10/03/23 16:00	10/18/23 10:35
30632749020	BD18609 MW-32H	Water	10/04/23 09:02	10/18/23 10:35
30632749021	BD18610 MW-20H	Water	10/04/23 10:55	10/18/23 10:35
30632749022	BD18611 MW-5	Water	10/04/23 12:15	10/18/23 10:35
30632749023	BD18612 MW-5 Dup	Water	10/04/23 12:15	10/18/23 10:35
30632749024	BD18613 PZ-5	Water	10/04/23 13:21	10/18/23 10:35
30632749025	BD18614 MW-33H	Water	10/04/23 14:57	10/18/23 10:35
30632749026	BD18615 MW-12	Water	10/02/23 13:37	10/18/23 10:35
30632749027	BD18616 MW-3S	Water	10/03/23 10:42	10/18/23 10:35
30632749028	BD18617 MW-3D	Water	10/03/23 12:00	10/18/23 10:35
30632749029	BD18618 MW-18H	Water	10/03/23 13:45	10/18/23 10:35
30632749030	BD18619 MW-23	Water	10/04/23 11:10	10/18/23 10:35
30632749031	BD18620 MW-23A	Water	10/04/23 12:00	10/18/23 10:35
30632749032	BD18621 MW-22I	Water	10/04/23 14:23	10/18/23 10:35
30632749033	BD18622 MW-22I Dup	Water	10/04/23 14:23	10/18/23 10:35
30632749034	BD18623 MW-22S	Water	10/04/23 15:35	10/18/23 10:35
30632749035	BD18623 MW-22S MS	Water	10/04/23 15:35	10/18/23 10:35
30632749036	BD18623 MW-22S MSD	Water	10/04/23 15:35	10/18/23 10:35
30632749037	BD18624 FB-3	Water	10/04/23 16:00	10/18/23 10:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWMILAP_1426
Pace Project No.: 30632749

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30632749038	BD18974 MW-37H	Water	10/09/23 13:20	10/18/23 10:35
30632749039	BD18975 MW-10	Water	10/09/23 14:55	10/18/23 10:35
30632749040	BD18976 MW-35H	Water	10/10/23 10:35	10/18/23 10:35
30632749041	BD18977 MW-35H Dup	Water	10/10/23 10:35	10/18/23 10:35
30632749042	BD18978 MW-17H	Water	10/10/23 11:50	10/18/23 10:35
30632749043	BD18979 MW-17H Dup	Water	10/10/23 11:50	10/18/23 10:35
30632749044	BD18980 EB-2	Water	10/10/23 12:45	10/18/23 10:35
30632749045	BD18981 MW-4	Water	10/10/23 13:55	10/18/23 10:35
30632749046	BD18982 MW-21	Water	10/11/23 10:05	10/18/23 10:35
30632749047	BD18983 MW-14R	Water	10/11/23 11:19	10/18/23 10:35
30632749048	BD18984 FB-4	Water	10/11/23 11:45	10/18/23 10:35
30632749049	BD18985 MW-16	Water	10/11/23 14:15	10/18/23 10:35
30632749050	BD19004 MW-1	Water	10/11/23 13:10	10/18/23 10:35
30632749051	BD19005 MW-36HR	Water	10/12/23 11:55	10/18/23 10:35
30632749052	BD19006 MW-31H	Water	10/09/23 15:23	10/18/23 10:35
30632749053	BD19007 MW-19HA	Water	10/10/23 11:06	10/18/23 10:35
30632749054	BD19008 MW-34H	Water	10/10/23 12:38	10/18/23 10:35
30632749055	BD19009 FB-5	Water	10/10/23 13:05	10/18/23 10:35
30632749056	BD19010 MW-2	Water	10/10/23 14:06	10/18/23 10:35
30632749057	BD19011 MW-30H	Water	10/11/23 09:05	10/18/23 10:35
30632749058	BD19012 MW-11	Water	10/11/23 11:06	10/18/23 10:35
30632749059	BD19013 EB-1	Water	10/11/23 12:35	10/18/23 10:35
30632749060	BD19014 MW-22D	Water	10/12/23 11:54	10/18/23 10:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30632749001	BD18206 MW-13DR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749002	BD18207 MW-13SR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749003	BD18208 MW-15	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749004	BD18208 MW-15 MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30632749005	BD18208 MW-15 MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30632749006	BD18209 MW-27HR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749007	BD18210 MW-28H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749008	BD18211 MW-9DR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749009	BD18212 MW-9SR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749010	BD18213 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749011	BD18602 MW-6V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749012	BD18603 MW-6	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749013	BD18604 MW-7DR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30632749014	BD18605 MW-7SR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749015	BD18605 MW-7SR MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30632749016	BD18605 MW-7SR MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30632749017	BD18606 MW-20HS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749018	BD18607 MW-20HS Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749019	BD18608 FB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749020	BD18609 MW-32H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749021	BD18610 MW-20H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749022	BD18611 MW-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749023	BD18612 MW-5 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749024	BD18613 PZ-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749025	BD18614 MW-33H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749026	BD18615 MW-12	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30632749027	BD18616 MW-3S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749028	BD18617 MW-3D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749029	BD18618 MW-18H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749030	BD18619 MW-23	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749031	BD18620 MW-23A	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749032	BD18621 MW-22I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749033	BD18622 MW-22I Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749034	BD18623 MW-22S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749035	BD18623 MW-22S MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30632749036	BD18623 MW-22S MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30632749037	BD18624 FB-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749038	BD18974 MW-37H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749039	BD18975 MW-10	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: WMWMLAP_1426
 Pace Project No.: 30632749

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30632749040	BD18976 MW-35H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749041	BD18977 MW-35H Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749042	BD18978 MW-17H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749043	BD18979 MW-17H Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749044	BD18980 EB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749045	BD18981 MW-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749046	BD18982 MW-21	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749047	BD18983 MW-14R	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749048	BD18984 FB-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749049	BD18985 MW-16	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749050	BD19004 MW-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749051	BD19005 MW-36HR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749052	BD19006 MW-31H	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30632749053	BD19007 MW-19HA	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30632749054	BD19008 MW-34H	Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749055	BD19009 FB-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30632749056	BD19010 MW-2	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30632749057	BD19011 MW-30H	Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30632749058	BD19012 MW-11	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30632749059	BD19013 EB-1	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30632749060	BD19014 MW-22D	Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: WMWMILAP_1426
Pace Project No.: 30632749

Date: November 16, 2023

(Greensburg, PA) - Revision 1 - This report replaces the 11/15/23 report. This project was revised on 11/16/23 in order to correct sample IDs per client request.

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PROJECT NARRATIVE

Project: WMWMILAP_1426
Pace Project No.: 30632749

Method: EPA 9315
Description: 9315 Total Radium
Client: Alabama Power
Date: November 16, 2023

General Information:

60 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:

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PROJECT NARRATIVE

Project: WMWMILAP_1426
Pace Project No.: 30632749

Method: EPA 9320
Description: 9320 Radium 228
Client: Alabama Power
Date: November 16, 2023

General Information:

60 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:

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PROJECT NARRATIVE

Project: WMWMILAP_1426
Pace Project No.: 30632749

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Alabama Power
Date: November 16, 2023

General Information:

54 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: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18206 MW-13DR **Lab ID: 30632749001** Collected: 09/26/23 11:25 Received: 10/18/23 10:35 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	0.163U ± 0.210 (0.439) C:89% T:NA	pCi/L	11/14/23 09:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.457U ± 0.494 (1.03) C:73% T:62%	pCi/L	11/01/23 12:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.620U ± 0.704 (1.47)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18207 MW-13SR **Lab ID: 30632749002** Collected: 09/26/23 14:05 Received: 10/18/23 10:35 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	0.261U ± 0.268 (0.528) C:82% T:NA	pCi/L	11/14/23 09:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.923 ± 0.502 (0.870) C:70% T:68%	pCi/L	11/01/23 12:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.18U ± 0.770 (1.40)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.355U ± 0.286 (0.530) C:93% T:NA	pCi/L	11/14/23 09:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.792U ± 0.474 (0.836) C:70% T:69%	pCi/L	11/01/23 12:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.15U ± 0.760 (1.37)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18208 MW-15 MS **Lab ID: 30632749004** Collected: 09/26/23 15:25 Received: 10/18/23 10:35 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	94.97 %REC ± NA (NA) C:NA T:NA	pCi/L	11/14/23 09:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	109.83 %REC ± NA (NA) C:NA T:NA	pCi/L	11/01/23 12:34	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18208 MW-15 MSD **Lab ID: 30632749005** Collected: 09/26/23 15:25 Received: 10/18/23 10:35 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	79.45 %REC 17.79RPD ± NA (NA) C:NA T:NA	pCi/L	11/14/23 09:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	91.96 %REC 17.71RPD ± NA (NA) C:NA T:NA	pCi/L	11/01/23 12:34	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18209 MW-27HR **Lab ID: 30632749006** Collected: 09/27/23 11:15 Received: 10/18/23 10:35 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	0.219U ± 0.224 (0.442) C:95% T:NA	pCi/L	11/14/23 09:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.101U ± 0.395 (0.901) C:70% T:66%	pCi/L	11/01/23 12:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.320U ± 0.619 (1.34)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.294U ± 0.263 (0.494) C:87% T:NA	pCi/L	11/14/23 09:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.257U ± 0.376 (0.808) C:74% T:67%	pCi/L	11/01/23 12:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.551U ± 0.639 (1.30)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18211 MW-9DR **Lab ID: 30632749008** Collected: 09/27/23 14:15 Received: 10/18/23 10:35 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	0.0499U ± 0.197 (0.495) C:87% T:NA	pCi/L	11/14/23 09:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.490U ± 0.376 (0.726) C:71% T:77%	pCi/L	11/01/23 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.540U ± 0.573 (1.22)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD18212 MW-9SR Lab ID: 30632749009 Collected: 09/27/23 15:12 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.130U ± 0.243 (0.556) C:90% T:NA	pCi/L	11/14/23 09:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.316U ± 0.404 (0.855) C:72% T:67%	pCi/L	11/01/23 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.446U ± 0.647 (1.41)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD18213 FB-1 Lab ID: 30632749010 Collected: 09/27/23 15:45 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0605U ± 0.220 (0.543) C:87% T:NA	pCi/L	11/14/23 09:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.602U ± 0.419 (0.792) C:63% T:81%	pCi/L	11/01/23 12:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.663U ± 0.639 (1.34)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0908U ± 0.204 (0.482) C:84% T:NA	pCi/L	11/14/23 09:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.395U ± 0.491 (1.04) C:70% T:67%	pCi/L	11/01/23 12:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.486U ± 0.695 (1.52)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.249U ± 0.257 (0.511) C:81% T:NA	pCi/L	11/14/23 09:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.380U ± 0.434 (0.905) C:70% T:65%	pCi/L	11/01/23 12:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.629U ± 0.691 (1.42)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18604 MW-7DR **Lab ID: 30632749013** Collected: 10/03/23 12:28 Received: 10/18/23 10:35 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	0.339U ± 0.286 (0.538) C:81% T:NA	pCi/L	11/14/23 09:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0543U ± 0.372 (0.896) C:72% T:63%	pCi/L	11/01/23 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.339U ± 0.658 (1.43)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18605 MW-7SR **Lab ID: 30632749014** Collected: 10/03/23 13:39 Received: 10/18/23 10:35 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	0.195U ± 0.221 (0.450) C:97% T:NA	pCi/L	11/15/23 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.165U ± 0.451 (1.10) C:71% T:61%	pCi/L	11/09/23 14:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.195U ± 0.672 (1.55)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18605 MW-7SR MS **Lab ID: 30632749015** Collected: 10/03/23 13:39 Received: 10/18/23 10:35 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	96.47 %REC ± NA (NA) C:NA T:NA	pCi/L	11/15/23 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	155.13 %REC ± NA (NA) C:NA T:NA	pCi/L	11/09/23 14:29	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18605 MW-7SR MSD **Lab ID: 30632749016** Collected: 10/03/23 13:39 Received: 10/18/23 10:35 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	91.82 %REC 4.94RPD ± NA (NA) C:NA T:NA	pCi/L	11/15/23 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	144.87 %REC 6.84RPD ± NA (NA) C:NA T:NA	pCi/L	11/09/23 14:33	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18606 MW-20HS **Lab ID: 30632749017** Collected: 10/03/23 15:14 Received: 10/18/23 10:35 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	0.0623U ± 0.198 (0.484) C:95% T:NA	pCi/L	11/14/23 09:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.169U ± 0.390 (0.958) C:73% T:65%	pCi/L	11/01/23 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0623U ± 0.588 (1.44)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18607 MW-20HS Dup **Lab ID: 30632749018** Collected: 10/03/23 15:14 Received: 10/18/23 10:35 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	0.0802U ± 0.155 (0.356) C:88% T:NA	pCi/L	11/14/23 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.02 ± 0.535 (0.918) C:84% T:52%	pCi/L	11/06/23 12:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.10U ± 0.690 (1.27)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.102U ± 0.226 (0.530) C:100% T:NA	pCi/L	11/14/23 09:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.183U ± 0.323 (0.706) C:69% T:84%	pCi/L	11/01/23 12:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.285U ± 0.549 (1.24)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.590 ± 0.330 (0.481) C:77% T:NA	pCi/L	11/14/23 09:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.492U ± 0.426 (0.857) C:66% T:83%	pCi/L	11/01/23 12:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.08U ± 0.756 (1.34)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.273U ± 0.274 (0.550) C:86% T:NA	pCi/L	11/14/23 09:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.16 ± 0.568 (0.988) C:72% T:70%	pCi/L	11/01/23 12:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.43U ± 0.842 (1.54)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD18611 MW-5 Lab ID: 30632749022 Collected: 10/04/23 12:15 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.138U ± 0.210 (0.459) C:81% T:NA	pCi/L	11/14/23 09:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.08 ± 0.569 (1.01) C:70% T:67%	pCi/L	11/01/23 12:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.22U ± 0.779 (1.47)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18612 MW-5 Dup **Lab ID: 30632749023** Collected: 10/04/23 12:15 Received: 10/18/23 10:35 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	-0.00262U ± 0.179 (0.487) C:89% T:NA	pCi/L	11/14/23 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.31 ± 0.602 (1.01) C:70% T:68%	pCi/L	11/01/23 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.31U ± 0.781 (1.50)	pCi/L	11/15/23 14:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18613 PZ-5 **Lab ID: 30632749024** Collected: 10/04/23 13:21 Received: 10/18/23 10:35 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	0.250U ± 0.262 (0.527) C:88% T:NA	pCi/L	11/15/23 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.563U ± 0.430 (0.846) C:75% T:82%	pCi/L	11/09/23 14:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.813U ± 0.692 (1.37)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18614 MW-33H **Lab ID: 30632749025** Collected: 10/04/23 14:57 Received: 10/18/23 10:35 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	0.139U ± 0.207 (0.453) C:95% T:NA	pCi/L	11/15/23 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.710U ± 0.424 (0.777) C:82% T:77%	pCi/L	11/09/23 14:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.849U ± 0.631 (1.23)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18615 MW-12 **Lab ID: 30632749026** Collected: 10/02/23 13:37 Received: 10/18/23 10:35 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	0.177U ± 0.209 (0.431) C:100% T:NA	pCi/L	11/15/23 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.347U ± 0.386 (0.804) C:80% T:73%	pCi/L	11/09/23 14:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.524U ± 0.595 (1.24)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18616 MW-3S **Lab ID: 30632749027** Collected: 10/03/23 10:42 Received: 10/18/23 10:35 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	0.0803U ± 0.205 (0.493) C:89% T:NA	pCi/L	11/15/23 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.313U ± 0.404 (0.856) C:78% T:64%	pCi/L	11/09/23 14:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.393U ± 0.609 (1.35)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0585U ± 0.212 (0.525) C:85% T:NA	pCi/L	11/15/23 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.05 ± 0.470 (0.767) C:78% T:80%	pCi/L	11/09/23 14:33	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.11U ± 0.682 (1.29)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD18618 MW-18H Lab ID: 30632749029 Collected: 10/03/23 13:45 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.247U ± 0.230 (0.436) C:97% T:NA	pCi/L	11/15/23 08:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0469U ± 0.406 (0.937) C:79% T:67%	pCi/L	11/09/23 14:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.294U ± 0.636 (1.37)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	4.55 ± 0.960 (0.468) C:107% T:NA	pCi/L	11/15/23 08:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	2.59 ± 0.705 (0.718) C:77% T:85%	pCi/L	11/09/23 14:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	7.14 ± 1.67 (1.19)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.185U ± 0.186 (0.349) C:100% T:NA	pCi/L	11/15/23 08:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.640U ± 0.465 (0.893) C:78% T:71%	pCi/L	11/09/23 14:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.825U ± 0.651 (1.24)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0287U ± 0.188 (0.513) C:96% T:NA	pCi/L	11/15/23 08:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.183U ± 0.358 (0.788) C:77% T:78%	pCi/L	11/09/23 14:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.183U ± 0.546 (1.30)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18622 MW-22I Dup **Lab ID: 30632749033** Collected: 10/04/23 14:23 Received: 10/18/23 10:35 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	0.0896U ± 0.226 (0.538) C:91% T:NA	pCi/L	11/15/23 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0539U ± 0.389 (0.920) C:77% T:76%	pCi/L	11/09/23 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0896U ± 0.615 (1.46)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0579U ± 0.210 (0.519) C:91% T:NA	pCi/L	11/14/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.792 ± 0.433 (0.770) C:73% T:80%	pCi/L	11/10/23 11:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.850U ± 0.643 (1.29)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18623 MW-22S MS **Lab ID: 30632749035** Collected: 10/04/23 15:35 Received: 10/18/23 10:35 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	101.03 %REC ± NA (NA) C:NA T:NA	pCi/L	11/14/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	96.89 %REC ± NA (NA) C:NA T:NA	pCi/L	11/10/23 11:05	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18623 MW-22S MSD **Lab ID: 30632749036** Collected: 10/04/23 15:35 Received: 10/18/23 10:35 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	106.30 %REC 5.09RPD ± NA (NA) C:NA T:NA	pCi/L	11/14/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	99.06 %REC 2.21RPD ± NA (NA) C:NA T:NA	pCi/L	11/10/23 11:05	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0812U ± 0.183 (0.431) C:96% T:NA	pCi/L	11/15/23 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.677U ± 0.501 (0.989) C:82% T:76%	pCi/L	11/09/23 14:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.758U ± 0.684 (1.42)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18974 MW-37H **Lab ID: 30632749038** Collected: 10/09/23 13:20 Received: 10/18/23 10:35 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	0.142U ± 0.238 (0.535) C:91% T:NA	pCi/L	11/15/23 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.201U ± 0.355 (0.886) C:77% T:76%	pCi/L	11/09/23 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.142U ± 0.593 (1.42)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.320U ± 0.256 (0.449) C:86% T:NA	pCi/L	11/15/23 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.466U ± 0.387 (0.772) C:79% T:81%	pCi/L	11/09/23 14:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.786U ± 0.643 (1.22)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD18976 MW-35H Lab ID: 30632749040 Collected: 10/10/23 10:35 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.301U ± 0.262 (0.480) C:81% T:NA	pCi/L	11/15/23 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.308U ± 0.400 (0.849) C:77% T:72%	pCi/L	11/09/23 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.609U ± 0.662 (1.33)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18977 MW-35H Dup **Lab ID: 30632749041** Collected: 10/10/23 10:35 Received: 10/18/23 10:35 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	0.152U ± 0.226 (0.496) C:95% T:NA	pCi/L	11/15/23 09:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.241U ± 0.335 (0.852) C:77% T:73%	pCi/L	11/09/23 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.152U ± 0.561 (1.35)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0933U ± 0.263 (0.630) C:87% T:NA	pCi/L	11/15/23 08:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.525U ± 0.475 (0.964) C:79% T:66%	pCi/L	11/09/23 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.618U ± 0.738 (1.59)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.165U ± 0.212 (0.447) C:95% T:NA	pCi/L	11/15/23 08:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.08 ± 0.552 (0.941) C:77% T:60%	pCi/L	11/09/23 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.25U ± 0.764 (1.39)	pCi/L	11/15/23 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD18980 EB-2 Lab ID: 30632749044 Collected: 10/10/23 12:45 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0172U ± 0.152 (0.442) C:91% T:NA	pCi/L	11/14/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.142U ± 0.369 (0.825) C:66% T:86%	pCi/L	11/10/23 11:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.142U ± 0.521 (1.27)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD18981 MW-4 **Lab ID: 30632749045** Collected: 10/10/23 13:55 Received: 10/18/23 10:35 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	0.0409U ± 0.216 (0.550) C:77% T:NA	pCi/L	11/14/23 10:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.730U ± 0.467 (0.876) C:73% T:79%	pCi/L	11/10/23 11:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.771U ± 0.683 (1.43)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD18982 MW-21 Lab ID: 30632749046 Collected: 10/11/23 10:05 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.682 ± 0.388 (0.640) C:85% T:NA	pCi/L	11/14/23 10:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.137U ± 0.352 (0.790) C:69% T:85%	pCi/L	11/10/23 11:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.819U ± 0.740 (1.43)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.148U ± 0.220 (0.481) C:82% T:NA	pCi/L	11/14/23 10:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.225U ± 0.348 (0.752) C:77% T:86%	pCi/L	11/10/23 11:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.373U ± 0.568 (1.23)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.163U ± 0.226 (0.489) C:89% T:NA	pCi/L	11/14/23 10:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.249U ± 0.372 (0.802) C:65% T:85%	pCi/L	11/10/23 11:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.412U ± 0.598 (1.29)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.102U ± 0.238 (0.562) C:85% T:NA	pCi/L	11/14/23 12:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.258U ± 0.375 (0.806) C:67% T:81%	pCi/L	11/10/23 11:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.360U ± 0.613 (1.37)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD19004 MW-1 Lab ID: 30632749050 Collected: 10/11/23 13:10 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.447U ± 0.310 (0.540) C:82% T:NA	pCi/L	11/14/23 13:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.672U ± 0.483 (0.930) C:66% T:80%	pCi/L	11/10/23 11:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.12U ± 0.793 (1.47)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD19005 MW-36HR **Lab ID: 30632749051** Collected: 10/12/23 11:55 Received: 10/18/23 10:35 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	0.396U ± 0.256 (0.401) C:97% T:NA	pCi/L	11/14/23 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.478U ± 0.440 (0.891) C:65% T:78%	pCi/L	11/10/23 11:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.874U ± 0.696 (1.29)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD19006 MW-31H **Lab ID: 30632749052** Collected: 10/09/23 15:23 Received: 10/18/23 10:35 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	0.0789U ± 0.193 (0.462) C:86% T:NA	pCi/L	11/14/23 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.174U ± 0.412 (0.917) C:67% T:80%	pCi/L	11/10/23 11:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.253U ± 0.605 (1.38)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD19007 MW-19HA **Lab ID: 30632749053** Collected: 10/10/23 11:06 Received: 10/18/23 10:35 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	0.0965U ± 0.169 (0.380) C:74% T:NA	pCi/L	11/14/23 13:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.23 ± 0.551 (0.919) C:69% T:79%	pCi/L	11/10/23 11:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.33 ± 0.720 (1.30)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD19008 MW-34H **Lab ID: 30632749054** Collected: 10/10/23 12:38 Received: 10/18/23 10:35 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	0.162U ± 0.215 (0.459) C:91% T:NA	pCi/L	11/15/23 08:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.358U ± 0.388 (0.806) C:64% T:83%	pCi/L	11/10/23 11:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.520U ± 0.603 (1.27)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0834U ± 0.166 (0.385) C:96% T:NA	pCi/L	11/15/23 08:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.395U ± 0.393 (0.799) C:66% T:87%	pCi/L	11/10/23 11:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.478U ± 0.559 (1.18)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.192U ± 0.210 (0.406) C:81% T:NA	pCi/L	11/15/23 08:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.501U ± 0.413 (0.819) C:64% T:83%	pCi/L	11/10/23 11:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.693U ± 0.623 (1.23)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Sample: BD19011 MW-30H **Lab ID: 30632749057** Collected: 10/11/23 09:05 Received: 10/18/23 10:35 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	0.347U ± 0.323 (0.628) C:73% T:NA	pCi/L	11/14/23 15:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.153U ± 0.398 (0.891) C:64% T:84%	pCi/L	11/10/23 11:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.500U ± 0.721 (1.52)	pCi/L	11/15/23 14:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD19012 MW-11 Lab ID: 30632749058 Collected: 10/11/23 11:06 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.205U ± 0.232 (0.466) C:84% T:NA	pCi/L	11/14/23 15:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.539U ± 0.440 (0.865) C:70% T:82%	pCi/L	11/10/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.744U ± 0.672 (1.33)	pCi/L	11/15/23 14:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD19013 EB-1 Lab ID: 30632749059 Collected: 10/11/23 12:35 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.215U ± 0.221 (0.433) C:95% T:NA	pCi/L	11/14/23 15:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.153U ± 0.355 (0.791) C:67% T:84%	pCi/L	11/10/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.368U ± 0.576 (1.22)	pCi/L	11/15/23 14:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD19014 MW-22D Lab ID: 30632749060 Collected: 10/12/23 11:54 Received: 10/18/23 10:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.204U ± 0.194 (0.347) C:93% T:NA	pCi/L	11/14/23 15:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.842U ± 0.502 (0.923) C:64% T:79%	pCi/L	11/10/23 11:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.05U ± 0.696 (1.27)	pCi/L	11/15/23 14:26	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

QC Batch:	624129	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30632749014, 30632749015, 30632749016, 30632749024, 30632749025, 30632749026, 30632749027, 30632749028, 30632749029, 30632749030, 30632749031, 30632749032, 30632749033, 30632749037, 30632749038, 30632749039, 30632749040, 30632749041, 30632749042, 30632749043

METHOD BLANK: 3042596 Matrix: Water

Associated Lab Samples: 30632749014, 30632749015, 30632749016, 30632749024, 30632749025, 30632749026, 30632749027, 30632749028, 30632749029, 30632749030, 30632749031, 30632749032, 30632749033, 30632749037, 30632749038, 30632749039, 30632749040, 30632749041, 30632749042, 30632749043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.130 ± 0.104 (0.182) C:88% T:NA	pCi/L	11/15/23 08:20	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

QC Batch:	624127	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30632749001, 30632749002, 30632749003, 30632749004, 30632749005, 30632749006, 30632749007, 30632749008, 30632749009, 30632749010, 30632749011, 30632749012, 30632749013, 30632749017, 30632749018, 30632749019, 30632749020, 30632749021, 30632749022, 30632749023

METHOD BLANK: 3042593 Matrix: Water

Associated Lab Samples: 30632749001, 30632749002, 30632749003, 30632749004, 30632749005, 30632749006, 30632749007, 30632749008, 30632749009, 30632749010, 30632749011, 30632749012, 30632749013, 30632749017, 30632749018, 30632749019, 30632749020, 30632749021, 30632749022, 30632749023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0328 ± 0.0958 (0.230) C:91% T:NA	pCi/L	11/14/23 08:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

QC Batch:	624132	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30632749001, 30632749002, 30632749003, 30632749004, 30632749005, 30632749006, 30632749007, 30632749008, 30632749009, 30632749010, 30632749011, 30632749012, 30632749013, 30632749017, 30632749018, 30632749019, 30632749020, 30632749021, 30632749022, 30632749023

METHOD BLANK: 3042603 Matrix: Water

Associated Lab Samples: 30632749001, 30632749002, 30632749003, 30632749004, 30632749005, 30632749006, 30632749007, 30632749008, 30632749009, 30632749010, 30632749011, 30632749012, 30632749013, 30632749017, 30632749018, 30632749019, 30632749020, 30632749021, 30632749022, 30632749023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.310 ± 0.373 (0.785) C:74% T:71%	pCi/L	11/01/23 12:34	

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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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

QC Batch:	624130	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30632749034, 30632749035, 30632749036, 30632749044, 30632749045, 30632749046, 30632749047, 30632749048, 30632749049, 30632749050, 30632749051, 30632749052, 30632749053, 30632749054, 30632749055, 30632749056, 30632749057, 30632749058, 30632749059, 30632749060

METHOD BLANK: 3042597 Matrix: Water

Associated Lab Samples: 30632749034, 30632749035, 30632749036, 30632749044, 30632749045, 30632749046, 30632749047, 30632749048, 30632749049, 30632749050, 30632749051, 30632749052, 30632749053, 30632749054, 30632749055, 30632749056, 30632749057, 30632749058, 30632749059, 30632749060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.130 ± 0.0925 (0.141) C:92% T:NA	pCi/L	11/14/23 10:07	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

QC Batch:	624134	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30632749034, 30632749035, 30632749036, 30632749044, 30632749045, 30632749046, 30632749047, 30632749048, 30632749049, 30632749050, 30632749051, 30632749052, 30632749053, 30632749054, 30632749055, 30632749056, 30632749057, 30632749058, 30632749059, 30632749060

METHOD BLANK: 3042606 Matrix: Water

Associated Lab Samples: 30632749034, 30632749035, 30632749036, 30632749044, 30632749045, 30632749046, 30632749047, 30632749048, 30632749049, 30632749050, 30632749051, 30632749052, 30632749053, 30632749054, 30632749055, 30632749056, 30632749057, 30632749058, 30632749059, 30632749060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.437 ± 0.320 (0.612) C:77% T:85%	pCi/L	11/10/23 11:05	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWMILAP_1426
 Pace Project No.: 30632749

QC Batch:	624133	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30632749014, 30632749015, 30632749016, 30632749024, 30632749025, 30632749026, 30632749027, 30632749028, 30632749029, 30632749030, 30632749031, 30632749032, 30632749033, 30632749037, 30632749038, 30632749039, 30632749040, 30632749041, 30632749042, 30632749043

METHOD BLANK: 3042605 Matrix: Water

Associated Lab Samples: 30632749014, 30632749015, 30632749016, 30632749024, 30632749025, 30632749026, 30632749027, 30632749028, 30632749029, 30632749030, 30632749031, 30632749032, 30632749033, 30632749037, 30632749038, 30632749039, 30632749040, 30632749041, 30632749042, 30632749043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.399 ± 0.341 (0.675) C:80% T:79%	pCi/L	11/09/23 14:29	

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QUALIFIERS

Project: WMWMLAP_1426
Pace Project No.: 30632749

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.

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: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

WORKORDER QUALIFIERS

WO: 30632749

[1] (Greensburg, PA) - Revision 1 - This report replaces the 11/15/23 report. This project was revised on 11/16/23 in order to correct sample IDs per client request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP_1426
 Pace Project No.: 30632749

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30632749001	BD18206 MW-13DR	EPA 9315	624127		
30632749002	BD18207 MW-13SR	EPA 9315	624127		
30632749003	BD18208 MW-15	EPA 9315	624127		
30632749004	BD18208 MW-15 MS	EPA 9315	624127		
30632749005	BD18208 MW-15 MSD	EPA 9315	624127		
30632749006	BD18209 MW-27HR	EPA 9315	624127		
30632749007	BD18210 MW-28H	EPA 9315	624127		
30632749008	BD18211 MW-9DR	EPA 9315	624127		
30632749009	BD18212 MW-9SR	EPA 9315	624127		
30632749010	BD18213 FB-1	EPA 9315	624127		
30632749011	BD18602 MW-6V	EPA 9315	624127		
30632749012	BD18603 MW-6	EPA 9315	624127		
30632749013	BD18604 MW-7DR	EPA 9315	624127		
30632749014	BD18605 MW-7SR	EPA 9315	624129		
30632749015	BD18605 MW-7SR MS	EPA 9315	624129		
30632749016	BD18605 MW-7SR MSD	EPA 9315	624129		
30632749017	BD18606 MW-20HS	EPA 9315	624127		
30632749018	BD18607 MW-20HS Dup	EPA 9315	624127		
30632749019	BD18608 FB-2	EPA 9315	624127		
30632749020	BD18609 MW-32H	EPA 9315	624127		
30632749021	BD18610 MW-20H	EPA 9315	624127		
30632749022	BD18611 MW-5	EPA 9315	624127		
30632749023	BD18612 MW-5 Dup	EPA 9315	624127		
30632749024	BD18613 PZ-5	EPA 9315	624129		
30632749025	BD18614 MW-33H	EPA 9315	624129		
30632749026	BD18615 MW-12	EPA 9315	624129		
30632749027	BD18616 MW-3S	EPA 9315	624129		
30632749028	BD18617 MW-3D	EPA 9315	624129		
30632749029	BD18618 MW-18H	EPA 9315	624129		
30632749030	BD18619 MW-23	EPA 9315	624129		
30632749031	BD18620 MW-23A	EPA 9315	624129		
30632749032	BD18621 MW-22I	EPA 9315	624129		
30632749033	BD18622 MW-22I Dup	EPA 9315	624129		
30632749034	BD18623 MW-22S	EPA 9315	624130		
30632749035	BD18623 MW-22S MS	EPA 9315	624130		
30632749036	BD18623 MW-22S MSD	EPA 9315	624130		
30632749037	BD18624 FB-3	EPA 9315	624129		
30632749038	BD18974 MW-37H	EPA 9315	624129		
30632749039	BD18975 MW-10	EPA 9315	624129		
30632749040	BD18976 MW-35H	EPA 9315	624129		
30632749041	BD18977 MW-35H Dup	EPA 9315	624129		
30632749042	BD18978 MW-17H	EPA 9315	624129		
30632749043	BD18979 MW-17H Dup	EPA 9315	624129		
30632749044	BD18980 EB-2	EPA 9315	624130		
30632749045	BD18981 MW-4	EPA 9315	624130		
30632749046	BD18982 MW-21	EPA 9315	624130		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP_1426
 Pace Project No.: 30632749

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30632749047	BD18983 MW-14R	EPA 9315	624130		
30632749048	BD18984 FB-4	EPA 9315	624130		
30632749049	BD18985 MW-16	EPA 9315	624130		
30632749050	BD19004 MW-1	EPA 9315	624130		
30632749051	BD19005 MW-36HR	EPA 9315	624130		
30632749052	BD19006 MW-31H	EPA 9315	624130		
30632749053	BD19007 MW-19HA	EPA 9315	624130		
30632749054	BD19008 MW-34H	EPA 9315	624130		
30632749055	BD19009 FB-5	EPA 9315	624130		
30632749056	BD19010 MW-2	EPA 9315	624130		
30632749057	BD19011 MW-30H	EPA 9315	624130		
30632749058	BD19012 MW-11	EPA 9315	624130		
30632749059	BD19013 EB-1	EPA 9315	624130		
30632749060	BD19014 MW-22D	EPA 9315	624130		
30632749001	BD18206 MW-13DR	EPA 9320	624132		
30632749002	BD18207 MW-13SR	EPA 9320	624132		
30632749003	BD18208 MW-15	EPA 9320	624132		
30632749004	BD18208 MW-15 MS	EPA 9320	624132		
30632749005	BD18208 MW-15 MSD	EPA 9320	624132		
30632749006	BD18209 MW-27HR	EPA 9320	624132		
30632749007	BD18210 MW-28H	EPA 9320	624132		
30632749008	BD18211 MW-9DR	EPA 9320	624132		
30632749009	BD18212 MW-9SR	EPA 9320	624132		
30632749010	BD18213 FB-1	EPA 9320	624132		
30632749011	BD18602 MW-6V	EPA 9320	624132		
30632749012	BD18603 MW-6	EPA 9320	624132		
30632749013	BD18604 MW-7DR	EPA 9320	624132		
30632749014	BD18605 MW-7SR	EPA 9320	624133		
30632749015	BD18605 MW-7SR MS	EPA 9320	624133		
30632749016	BD18605 MW-7SR MSD	EPA 9320	624133		
30632749017	BD18606 MW-20HS	EPA 9320	624132		
30632749018	BD18607 MW-20HS Dup	EPA 9320	624132		
30632749019	BD18608 FB-2	EPA 9320	624132		
30632749020	BD18609 MW-32H	EPA 9320	624132		
30632749021	BD18610 MW-20H	EPA 9320	624132		
30632749022	BD18611 MW-5	EPA 9320	624132		
30632749023	BD18612 MW-5 Dup	EPA 9320	624132		
30632749024	BD18613 PZ-5	EPA 9320	624133		
30632749025	BD18614 MW-33H	EPA 9320	624133		
30632749026	BD18615 MW-12	EPA 9320	624133		
30632749027	BD18616 MW-3S	EPA 9320	624133		
30632749028	BD18617 MW-3D	EPA 9320	624133		
30632749029	BD18618 MW-18H	EPA 9320	624133		
30632749030	BD18619 MW-23	EPA 9320	624133		
30632749031	BD18620 MW-23A	EPA 9320	624133		
30632749032	BD18621 MW-22I	EPA 9320	624133		
30632749033	BD18622 MW-22I Dup	EPA 9320	624133		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP_1426
 Pace Project No.: 30632749

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30632749034	BD18623 MW-22S	EPA 9320	624134		
30632749035	BD18623 MW-22S MS	EPA 9320	624134		
30632749036	BD18623 MW-22S MSD	EPA 9320	624134		
30632749037	BD18624 FB-3	EPA 9320	624133		
30632749038	BD18974 MW-37H	EPA 9320	624133		
30632749039	BD18975 MW-10	EPA 9320	624133		
30632749040	BD18976 MW-35H	EPA 9320	624133		
30632749041	BD18977 MW-35H Dup	EPA 9320	624133		
30632749042	BD18978 MW-17H	EPA 9320	624133		
30632749043	BD18979 MW-17H Dup	EPA 9320	624133		
30632749044	BD18980 EB-2	EPA 9320	624134		
30632749045	BD18981 MW-4	EPA 9320	624134		
30632749046	BD18982 MW-21	EPA 9320	624134		
30632749047	BD18983 MW-14R	EPA 9320	624134		
30632749048	BD18984 FB-4	EPA 9320	624134		
30632749049	BD18985 MW-16	EPA 9320	624134		
30632749050	BD19004 MW-1	EPA 9320	624134		
30632749051	BD19005 MW-36HR	EPA 9320	624134		
30632749052	BD19006 MW-31H	EPA 9320	624134		
30632749053	BD19007 MW-19HA	EPA 9320	624134		
30632749054	BD19008 MW-34H	EPA 9320	624134		
30632749055	BD19009 FB-5	EPA 9320	624134		
30632749056	BD19010 MW-2	EPA 9320	624134		
30632749057	BD19011 MW-30H	EPA 9320	624134		
30632749058	BD19012 MW-11	EPA 9320	624134		
30632749059	BD19013 EB-1	EPA 9320	624134		
30632749060	BD19014 MW-22D	EPA 9320	624134		
30632749001	BD18206 MW-13DR	Total Radium Calculation	630052		
30632749002	BD18207 MW-13SR	Total Radium Calculation	630052		
30632749003	BD18208 MW-15	Total Radium Calculation	630052		
30632749006	BD18209 MW-27HR	Total Radium Calculation	630052		
30632749007	BD18210 MW-28H	Total Radium Calculation	630052		
30632749008	BD18211 MW-9DR	Total Radium Calculation	630052		
30632749009	BD18212 MW-9SR	Total Radium Calculation	630052		
30632749010	BD18213 FB-1	Total Radium Calculation	630052		
30632749011	BD18602 MW-6V	Total Radium Calculation	630052		
30632749012	BD18603 MW-6	Total Radium Calculation	630052		
30632749013	BD18604 MW-7DR	Total Radium Calculation	630052		
30632749014	BD18605 MW-7SR	Total Radium Calculation	630042		
30632749017	BD18606 MW-20HS	Total Radium Calculation	630052		
30632749018	BD18607 MW-20HS Dup	Total Radium Calculation	630052		
30632749019	BD18608 FB-2	Total Radium Calculation	630052		
30632749020	BD18609 MW-32H	Total Radium Calculation	630052		
30632749021	BD18610 MW-20H	Total Radium Calculation	630052		
30632749022	BD18611 MW-5	Total Radium Calculation	630052		
30632749023	BD18612 MW-5 Dup	Total Radium Calculation	630052		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWMLAP_1426
 Pace Project No.: 30632749

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30632749024	BD18613 PZ-5	Total Radium Calculation	630042		
30632749025	BD18614 MW-33H	Total Radium Calculation	630042		
30632749026	BD18615 MW-12	Total Radium Calculation	630042		
30632749027	BD18616 MW-3S	Total Radium Calculation	630042		
30632749028	BD18617 MW-3D	Total Radium Calculation	630042		
30632749029	BD18618 MW-18H	Total Radium Calculation	630042		
30632749030	BD18619 MW-23	Total Radium Calculation	630042		
30632749031	BD18620 MW-23A	Total Radium Calculation	630042		
30632749032	BD18621 MW-22I	Total Radium Calculation	630042		
30632749033	BD18622 MW-22I Dup	Total Radium Calculation	630042		
30632749034	BD18623 MW-22S	Total Radium Calculation	630043		
30632749037	BD18624 FB-3	Total Radium Calculation	630042		
30632749038	BD18974 MW-37H	Total Radium Calculation	630042		
30632749039	BD18975 MW-10	Total Radium Calculation	630042		
30632749040	BD18976 MW-35H	Total Radium Calculation	630042		
30632749041	BD18977 MW-35H Dup	Total Radium Calculation	630042		
30632749042	BD18978 MW-17H	Total Radium Calculation	630042		
30632749043	BD18979 MW-17H Dup	Total Radium Calculation	630042		
30632749044	BD18980 EB-2	Total Radium Calculation	630043		
30632749045	BD18981 MW-4	Total Radium Calculation	630043		
30632749046	BD18982 MW-21	Total Radium Calculation	630043		
30632749047	BD18983 MW-14R	Total Radium Calculation	630043		
30632749048	BD18984 FB-4	Total Radium Calculation	630043		
30632749049	BD18985 MW-16	Total Radium Calculation	630043		
30632749050	BD19004 MW-1	Total Radium Calculation	630043		
30632749051	BD19005 MW-36HR	Total Radium Calculation	630043		
30632749052	BD19006 MW-31H	Total Radium Calculation	630043		
30632749053	BD19007 MW-19HA	Total Radium Calculation	630043		
30632749054	BD19008 MW-34H	Total Radium Calculation	630043		
30632749055	BD19009 FB-5	Total Radium Calculation	630043		
30632749056	BD19010 MW-2	Total Radium Calculation	630043		
30632749057	BD19011 MW-30H	Total Radium Calculation	630043		
30632749058	BD19012 MW-11	Total Radium Calculation	630043		
30632749059	BD19013 EB-1	Total Radium Calculation	630043		
30632749060	BD19014 MW-22D	Total Radium Calculation	630043		

REPORT OF LABORATORY ANALYSIS

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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 35040
Email To: igarner@southernco.com
Phone: 205-664-6101 Fax:
Requested Due Date: Normal

Section B

Required Project Information:
Report To: Brooke Caton
Copy To: Renee Jernigan & Blaine Denton
Purchase Order #: APC87119-0001
Project Name: Plant Miller Ash Pond
Project Number: WNWMLAP_1426

Section C

Invoice Information:
Attention: Brooke Caton
Company Name: Alabama Power Co.
Address: 744 Highway 87 GSC Bldg #8
Pace Quote: CCR
Pace Project Manager: Skyler Richmond
Pace Profile #: 16788

Section D

Regulatory Agency
State / Location AL

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE TIME	# OF CONTAINERS	Preservatives		Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)
											Unpreserved	HNO3						
1	BD18206 MW-13DR	APCO-MR-AP-MW-13DR	APCO_Miller_AshPond				GW	G	9/26/2023 11:25	1			X	X	X			001
2	BD18207 MW-13SR	APCO-MR-AP-MW-13SR	APCO_Miller_AshPond				GW	G	9/26/2023 14:05	1			X	X	X			002
3	BD18208 MW-15	APCO-MR-AP-MW-15	APCO_Miller_AshPond		X		GW	G	9/26/2023 15:25	3			X	X	X			003 004 005
4	BD18209 MW-27HR	APCO-MR-AP-MW-27HR	APCO_Miller_AshPond				GW	G	9/27/2023 11:15	1			X	X	X			006
5	BD18210 MW-28H	APCO-MR-AP-MW-28H	APCO_Miller_AshPond				GW	G	9/27/2023 12:30	1			X	X	X			007
6	BD18211 MW-9DR	APCO-MR-AP-MW-9DR	APCO_Miller_AshPond				GW	G	9/27/2023 14:15	1			X	X	X			008
7	BD18212 MW-9SR	APCO-MR-AP-MW-9SR	APCO_Miller_AshPond				GW	G	9/27/2023 15:12	1			X	X	X			009
8	BD18213 FB-1	APCO-MR-AP-FB-01	APCO_Miller_AshPond				GW	G	9/27/2023 15:45	1			X	X	X			010
9	BD18602 MW-6V	APCO-MR-AP-MW-6V	APCO_Miller_AshPond				GW	G	10/3/2023 10:11	1			X	X	X			011
10	BD18603 MW-6	APCO-MR-AP-MW-6	APCO_Miller_AshPond				GW	G	10/3/2023 11:25	1			X	X	X			012
11	BD18604 MW-7DR	APCO-MR-AP-MW-7DR	APCO_Miller_AshPond				GW	G	10/3/2023 12:28	1			X	X	X			013
12	BD18605 MW-7SR	APCO-MR-AP-MW-7SR	APCO_Miller_AshPond		X		GW	G	10/3/2023 13:39	3			X	X	X			014 015 016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Brooke Caton	10/16/2023	7:56	Jamy Alcega Pace	10-18-23	10:35

SAMPLER NAME AND SIGNATURE	PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:	DATE Signed:

WO#: 30632749



30632749

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company	Report To: Brooke Caton	Company Name: Alabama Power Co.	Attention: Brooke Caton	Regulatory Agency	
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Renee Jernigan & Blaine Denton	Address: 744 Highway 87 GSC Bldg #8	Company Name: Alabama Power Co.	State / Location	
Email To: rgarter@southernco.com	Purchase Order #: APC87119-0001	Project Name: Plant Miller Ash Pond	Address: CCR	AL	
Phone: 205-664-6101 Fax:	Project Number: WMMMLAP_1426	Matrix Spike/Matrix Spike Duplicate	Pace Quote: Skyler Richmond		
Requested Due Date: Normal	Pace Profile #: 16788	Sample Duplicate			

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Sample Duplicate	Field Filtered	Matrix Code	Sample Type (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives			Requested Analysis Filtered (Y/N)	Y/N	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	
									START DATE	TIME		Unpreserved	NaOH+ZnAcetate	HNO3						
1	BD18606 MW-20HS	APCO-MR-AP-MW-20HS	APCO_Miller_AshPond				GW	G	10/3/2023	15:14	1					X	X	X		017
2	BD18607 MW-20HS Dup	APCO-MR-AP-MW-20HS	APCO_Miller_AshPond		x		GW	G	10/3/2023	15:14	1					X	X	X		018
3	BD18608 FB-2	APCO-MR-AP-FB-02	APCO_Miller_AshPond				GW	G	10/3/2023	16:00	1					X	X	X		019
4	BD18609 MW-32H	APCO-MR-AP-MW-32H	APCO_Miller_AshPond				GW	G	10/4/2023	9:02	1					X	X	X		020
5	BD18610 MW-20H	APCO-MR-AP-MW-20H	APCO_Miller_AshPond				GW	G	10/4/2023	10:55	1					X	X	X		021
6	BD18611 MW-5	APCO-MR-AP-MW-5	APCO_Miller_AshPond				GW	G	10/4/2023	12:15	1					X	X	X		022
7	BD18612 MW-5 Dup	APCO-MR-AP-MW-5	APCO_Miller_AshPond		x		GW	G	10/4/2023	12:15	1					X	X	X		023
8	BD18613 PZ-5	APCO-MR-AP-PZ-5	APCO_Miller_AshPond				GW	G	10/4/2023	13:21	1					X	X	X		024
9	BD18614 MW-33H	APCO-MR-AP-MW-33H	APCO_Miller_AshPond				GW	G	10/4/2023	14:57	1					X	X	X		025
10	BD18615 MW-12	APCO-MR-AP-MW-12	APCO_Miller_AshPond				GW	G	10/2/2023	13:37	1					X	X	X		026
11	BD18616 MW-3S	APCO-MR-AP-MW-3S	APCO_Miller_AshPond				GW	G	10/3/2023	10:42	1					X	X	X		027
12	BD18617 MW-3D	APCO-MR-AP-MW-3D	APCO_Miller_AshPond				GW	G	10/3/2023	12:00	1					X	X	X		028

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE	TIME	DATE	TIME	SAMPLE CONDITIONS
	RELINQUISHED BY	AFFILIATION	ACCEPTED BY	AFFILIATION					
		Brooke Caton			10/16/2023	7:56			
					10/18/23	10:35			N/A N N N

W0#: 30632749

PR: SCR Due Date: 11/15/23

CLIENT: ALABAMA PWR

82 of 95

SAMPLER NAME AND SIGNATURE: _____ DATE Signed: _____

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company		Report To: Brooke Caton		Attention: Brooke Caton	
Address: 744 Highway 87 GSC Bldg #8		Copy To: Renee Jernigan & Blaine Denton		Company Name: Alabama Power Co.	
Calera, AL 35040		Purchase Order #: APC87119-0001		Address: 744 Highway 87 GSC Bldg #8	
Email To: igamer@southernco.com		Project Name: Plant Miller Ash Pond		Pace Quote: CCR	
Phone: 205-664-6101 Fax:		Project Number: WMMWMLAP_1426		Pace Project Manager: Skyler Richmond	
Requested Due Date: Normal				State / Location: AL	
				Regulatory Agency:	

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	Matrix Code (G-GRAB C-COMP)	COLLECTED	# OF CONTAINERS	Preservatives			Analyses Test Y/N	Requested Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)
										Unpreserved	NaOH/ZnAcetate	HNO3			
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS					
1	BD18618	APCO-MR-AP-MW-18H	APCO_Miller_AshPond				GW G	START DATE TIME	1				X	X	029
2	BD18619	APCO-MR-AP-MW-23	APCO_Miller_AshPond				GW G	10/9/2023 13:45	1				X	X	030
3	BD18620	APCO-MR-AP-MW-23A	APCO_Miller_AshPond				GW G	10/4/2023 11:10	1				X	X	031
4	BD18621	APCO-MR-AP-MW-22I	APCO_Miller_AshPond				GW G	10/4/2023 12:00	1				X	X	032
5	BD18622	APCO-MR-AP-MW-22I Dup	APCO_Miller_AshPond	x			GW G	10/4/2023 14:23	1				X	X	033
6	BD18623	APCO-MR-AP-MW-22S	APCO_Miller_AshPond		x		GW G	10/4/2023 14:23	3				X	X	034, 035, 036
7	BD18624	FB-3	APCO-MR-AP-FB-03				GW G	10/4/2023 15:35	1				X	X	037
8	BD18974	MW-37H	APCO-MR-AP-MW-37H				GW G	10/4/2023 16:00	1				X	X	038
9	BD18975	MW-10	APCO-MR-AP-MW-10				GW G	10/9/2023 13:20	1				X	X	039
10	BD18976	MW-35H	APCO-MR-AP-MW-35H				GW G	10/9/2023 14:55	1				X	X	040
11	BD18977	MW-35H Dup	APCO-MR-AP-MW-35H		x		GW G	10/10/2023 10:35	1				X	X	041
12	BD18978	MW-17H	APCO-MR-AP-MW-17H				GW G	10/10/2023 10:35	1				X	X	042
		Brooke Caton		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS					
				10/16/2023	7:56	Duff W. Jernigan, Pace		10/18/23	10:35	M/A N N Y					

SAMPLER NAME AND SIGNATURE		DATE SIGNED:	
PRINT Name of SAMPLER:			
SIGNATURE of SAMPLER:			
TEMP in C			

W0# : 30632749

PM: SCR Due Date: 11/15/23

CLIENT: ALABAMA PWR

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:	Section B Required Project Information:	Section C Invoice Information:
Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: rgamer@southemco.com Phone: 205-664-6101 Fax: Requested Due Date: Normal	Report To: Brooke Catton Copy To: Renee Jernigan & Blaine Denton Purchase Order #: APC87119-0001 Project Name: Plant Miller Ash Pond Project Number: WVMWMLAP_1426	Attention: Brooke Catton Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 CCR Pace Quote: Pace Project Manager: Skyler Richmond Pace Profile #: 16788
Regulatory Agency		State / Location
AL		AL

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Sample Duplicate	Matrix Spk/Matrix Spike Duplicate	Field Filtered	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE TIME	# OF CONTAINERS	Preservatives				Analyses Test Y/N	Requested Analysis Filtered (Y/N)			DATE	TIME	SAMPLE CONDITIONS
										Unpreserved	NaOH+ZnAcetate	HNO3	EPA 9315		EPA 9320	Total Radium Sum	Total Sulfide			
1	MW-17H Dup	APCO-MR-AP-MW-17H	APCO_Miller_AshPond	X			GW	10/10/2023 11:50	1		X	X	X	X	X	X	043			
2	EB-2	APCO-MR-AP-EB-02	APCO_Miller_AshPond				GW	10/10/2023 12:45	1		X	X	X	X	X	X	044			
3	MW-4	APCO-MR-AP-MW-4	APCO_Miller_AshPond				GW	10/10/2023 13:55	1		X	X	X	X	X	X	045			
4	MW-21	APCO-MR-AP-MW-21	APCO_Miller_AshPond				GW	10/11/2023 10:05	1		X	X	X	X	X	X	046			
5	MW-14R	APCO-MR-AP-MW-14R	APCO_Miller_AshPond				GW	10/11/2023 11:19	1		X	X	X	X	X	X	047			
6	FB-4	APCO-MR-AP-FB-04	APCO_Miller_AshPond				GW	10/11/2023 11:45	1		X	X	X	X	X	X	048			
7	MW-16	APCO-MR-AP-MW-16	APCO_Miller_AshPond				GW	10/11/2023 14:15	1		X	X	X	X	X	X	049			
8	MW-1	APCO-MR-AP-MW-1	APCO_Miller_AshPond				GW	10/11/2023 13:10	1		X	X	X	X	X	X	050			
9	MW-36HR	APCO-MR-AP-MW-36HR	APCO_Miller_AshPond				GW	10/12/2023 11:55	1		X	X	X	X	X	X	051			
10	MW-31H	APCO-MR-AP-MW-31H	APCO_Miller_AshPond				GW	10/12/2023 15:23	1		X	X	X	X	X	X	052			
11	MW-19HA	APCO-MR-AP-MW-19HA	APCO_Miller_AshPond				GW	10/10/2023 11:06	1		X	X	X	X	X	X	053			
12	MW-34H	APCO-MR-AP-MW-34H	APCO_Miller_AshPond				GW	10/10/2023 12:38	1		X	X	X	X	X	X	054			
ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION: Brooke Catton DATE: 10/16/2023 TIME: 7:58 ACCEPTED BY / AFFILIATION: Aug Abraham Pace DATE: 10-18-23 TIME: 10:35 SAMPLE CONDITIONS: N/A N N Y																				

WO#: 30632749

PN: SCR Due Date: 11/15/23
CLIENT: ALABAMA PWR

Page 8 of 95

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: _____

DATE Signed: _____

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:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Caton	Attention:	Brooke Caton
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
Email To:	rgirner@southernco.com	Purchase Order #:	APC87119-0001	Address:	744 Highway 87 GSC Bldg #8 CCR
Phone:	205-664-6101	Project Name:	Plant Miller Ash Pond	Pace Quote:	
Requested Due Date:	Normal	Project Number:	WMMWMLAP_1426	Pace Project Manager:	Skyler Richmond
				Pace Profile #:	16788
				State / Location:	AL
				Regulatory Agency:	

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	Matrix Code (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
								START DATE	TIME										
1	BD19009	APCO-MR-AP-FB-05	APCO_Miller_AshPond				GW G	10/10/2023	13:05	1	X		X	X	X				055
2	BD19010	APCO-MR-AP-MW-2	APCO_Miller_AshPond				GW G	10/10/2023	14:06	1	X		X	X	X				056
3	BD19011	APCO-MR-AP-MW-30H	APCO_Miller_AshPond				GW G	10/11/2023	9:05	1	X		X	X	X				057
4	BD19012	APCO-MR-AP-MW-11	APCO_Miller_AshPond				GW G	10/11/2023	11:06	1	X		X	X	X				058
5	BD19013	APCO-MR-AP-EB-01	APCO_Miller_AshPond				GW G	10/11/2023	12:35	1	X		X	X	X				059
6	BD19014	APCO-MR-AP-MW-22D	APCO_Miller_AshPond				GW G	10/12/2023	11:54	1	X		X	X	X				060
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Brooke Caton	10/16/2023	7:56	Jamy Almadun Puse	10/18/23	10:35

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE Signed: _____

WO# : 30632749

PN: SCR Due Date: 11/15/23

CLIENT: ALABAMA PMR

DC#_Title: ENV-FRM-GBUR-0088 v06_Sample Condition Upon Receipt-
 Pittsburgh
 Effective Date: 09/20/2023



WO#: 30632749

PM: SCR Due Date: 11/15/23
 CLIENT: ALABAMA PWR

Client Name: Alabama Power

Courier: Fed Ex UPS USPS Client Commercial Pace Other
 Tracking Number: 7017 6814 5499

Examined By: ps 10/18/23
 Labeled By: ps 10/18/23
 Temped By: _____

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	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				2023-08	_____
Chain of Custody Present	/				1.
Chain of Custody Filled Out: -Were client corrections present on COC	/				2.
Chain of Custody Relinquished		/			3. no sig.
Sampler Name & Signature on COC:		/			4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	/				5.
Samples Arrived within Hold Time:	/				6.
Short Hold Time Analysis (<72hr remaining):		/			7.
Rush Turn Around Time Requested:		/			8.
Sufficient Volume:	/				9.
Correct Containers Used: -Pace Containers Used	/				10.
Containers Intact:	/				11.
Orthophosphate field filtered:			/		12.
Hex Cr Aqueous samples field filtered:			/		13.
Organic Samples checked for dechlorination			/		14.
Filtered volume received for dissolved tests:			/		15.
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/				16.
All containers meet method preservation requirements:	/			Initial when completed <u>PS</u> Lot# of added Preservative	Date/Time of Preservation
8260C/D: Headspace in VOA Vials (> 6mm)			/		17.
624.1: Headspace in VOA Vials (0mm)			/		18.
Trip Blank Present:			/		Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	X			Initial when completed <u>LA</u> Date: <u>10-18-23</u> Survey Meter SN: <u>1563</u>	
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
 PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: ZPC
Date: 10/31/2023
Worklist: 75932
Matrix: WT

Method Blank Assessment	
MB Sample ID	3042606
MB concentration:	0.437
M/B 2 Sigma CSU:	0.320
MB MDC:	0.612
MB Numerical Performance Indicator:	2.67
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD75932	N LCSD75932
Count Date:	11/10/2023	
Spike I.D.:	23-043	
Decay Corrected Spike Concentration (pCi/mL):	39.086	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.816	
Target Conc. (pCi/L, g, F):	4.789	
Uncertainty (Calculated):	0.235	
Result (pCi/L, g, F):	3.234	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.867	
Numerical Performance Indicator:	-3.39	
Percent Recovery:	67.51%	
Status vs Numerical Indicator:	N/A	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	MS/MSD 1 10/4/2023	MS/MSD 2
Sample Collection Date:	30632749034	
Sample I.D.:	30632749035	
Sample MS I.D.:	30632749036	
Spike I.D.:	23-043	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.563	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.806	
MS Target Conc. (pCi/L, g, F):	9.819	
MSD Aliquot (L, g, F):	0.806	
MSD Target Conc. (pCi/L, g, F):	9.812	
MS Spike Uncertainty (calculated):	0.481	
MSD Spike Uncertainty (calculated):	0.481	
Sample Result:	0.792	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.433	
Sample Matrix Spike Result:	10.306	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.076	
Sample Matrix Spike Duplicate Result:	10.512	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.131	
MS Numerical Performance Indicator:	-0.275	
MSD Numerical Performance Indicator:	-0.081	
MS Percent Recovery:	96.89%	
MSD Percent Recovery:	99.06%	
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%	

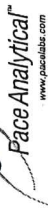
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30632749034
Sample MS I.D.:	30632749035
Sample MSD I.D.:	30632749036
Matrix Spike Result:	10.306
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.076
Sample Matrix Spike Duplicate Result:	10.512
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.131
Duplicate Numerical Performance Indicator:	-0.136
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	2.21%
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:

Mu 11/13/23
VAC
11/14/23

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: JJS1
Date: 10/30/2023
Worklist: 75931
Matrix: WT

Method Blank Assessment	
MB Sample ID	3042605
MB concentration:	0.399
MB 2 Sigma CSU:	0.341
MB IDC:	0.675
MB Numerical Performance Indicator:	2.30
MB Status vs Numerical Indicator:	Warning
MB Status vs. IDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?		N
	LCS75931	LCSD75931	
Count Date:	11/9/2023		
Spike I.D.:	23-043		
Decay Corrected Spike Concentration (pCi/mL):	39.097		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.821		
Target Conc. (pCi/L, g, F):	4.765		
Uncertainty (Calculated):	0.233		
Result (pCi/L, g, F):	4.275		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.026		
Numerical Performance Indicator:	-0.91		
Percent Recovery:	89.73%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/3/2023	
Sample I.D.:	30632749014	
Sample MS I.D.:	30632749015	
Sample MSD I.D.:	30632749016	
Spike I.D.:	23-043	
Spike I.D.:	39.578	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.20	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.805	
MS Aliquot (L, g, F):	9.831	
MS Target Conc. (pCi/L, g, F):	9.803	
MSD Aliquot (L, g, F):	9.863	
MSD Target Conc. (pCi/L, g, F):	0.482	
MS Spike Uncertainty (calculated):	0.483	
MSD Spike Uncertainty (calculated):	-0.165	
Sample Result:	0.451	
Sample Result 2 Sigma CSU (pCi/L, g, F):	15.085	
Sample Matrix Spike Result:	3.015	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	14.123	
Sample Matrix Spike Duplicate Result:	2.888	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.442	
MS Numerical Performance Indicator:	2.928	
MSD Numerical Performance Indicator:	155.13%	
MS Percent Recovery:	144.87%	
MSD Percent Recovery:	Fail****	
MS Status vs Numerical Indicator:	Warning	
MSD Status vs Numerical Indicator:	MS High****	
MS Status vs Recovery:	MSD High****	
MSD Status vs Recovery:	135%	
MS/MSD Upper % Recovery Limits:	60%	
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30632749014
Sample MS I.D.:	30632749015
Sample MSD I.D.:	30632749016
Sample Matrix Spike Result:	15.085
Sample Matrix Spike Duplicate Result:	3.015
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	14.123
Sample Matrix Spike Duplicate Result:	2.888
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.452
Duplicate Numerical Performance Indicator:	6.84%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	36%
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

11/10/23
MS/MSD fail high, sample results needed
no qualification

VAL
11/10/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 10/25/2023
Worklist: 75929
Matrix: WT

Method Blank Assessment	
MB Sample ID	3042587
MB concentration:	0.130
MB 2 Sigma CSU:	0.092
MB MDC:	0.141
MB Numerical Performance Indicator:	2.76
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS75929	LCS75929
Count Date:	11/14/2023	11/14/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.029	25.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.503
Target Conc. (pCi/L, g, F):	4.957	4.972
Uncertainty (Calculated):	0.233	0.234
Result (pCi/L, g, F):	4.414	4.006
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.780	0.717
Numerical Performance Indicator:	-1.31	-2.51
Percent Recovery:	89.05%	80.57%
Status vs Numerical Indicator:	Pass	Warning
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1		MS/MSD 2	
	Sample I.D.	Sample Collection Date:	Sample I.D.	Sample Collection Date:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	30632749034	10/14/2023	30632749035	
Spike Volume Used in MS (mL):	30632749035		30632749036	
MS Aliquot (L, g, F):	23-014		25.030	
MS Target Conc. (pCi/L, g, F):	0.20		0.20	
MSD Target Conc. (pCi/L, g, F):	0.206		0.206	
MSD Spike Uncertainty (calculated):	24.316		24.316	
MS Numerical Performance Indicator:	0.201		0.201	
MS Percent Recovery:	24.922		24.922	
MSD Percent Recovery:	1.143		1.143	
MS Status vs Numerical Indicator:	1.171		1.171	
MS Status vs Recovery:	0.058		0.058	
MS/MSD Upper % Recovery Limits:	0.210		0.210	
MS/MSD Lower % Recovery Limits:	24.624		24.624	
MS/MSD Duplicate Status vs RPD:	3.949		3.949	
MS/MSD Duplicate Status vs RPD Limit:	26.549		26.549	
MS/MSD Duplicate Status vs RPD Limit:	4.236		4.236	
MS/MSD Duplicate Status vs RPD Limit:	0.119		0.119	
MS/MSD Duplicate Status vs RPD Limit:	101.03%		101.03%	
MS/MSD Duplicate Status vs RPD Limit:	106.30%		106.30%	
MS/MSD Duplicate Status vs RPD Limit:	Pass		Pass	
MS/MSD Duplicate Status vs RPD Limit:	Pass		Pass	
MS/MSD Duplicate Status vs RPD Limit:	N/A		N/A	
MS/MSD Duplicate Status vs RPD Limit:	N/A		N/A	
MS/MSD Duplicate Status vs RPD Limit:	125%		125%	
MS/MSD Duplicate Status vs RPD Limit:	75%		75%	

Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	Sample I.D.
Duplicate Sample I.D.:	Sample MS I.D.
Sample Result (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Duplicate Result (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Sample Duplicate Result (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Are sample and/or duplicate results below RL?	Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
Duplicate Status vs Numerical Indicator:	Duplicate Numerical Performance Indicator:
Duplicate Status vs RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
Duplicate Status vs RPD Limit:	MS/MSD Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD Limit:	MS/MSD Duplicate Status vs RPD:
Duplicate Status vs RPD Limit:	% RPD Limit:
Duplicate Status vs RPD Limit:	% RPD Limit:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

11-15-23

VAM11/15/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 10/25/2023
Worklist: 75928
Matrix: WT

Method Blank Assessment	
MB Sample ID	3042596
MB concentration:	0.130
MB 2 Sigma CSU:	0.104
MB MDC:	0.182
MB Numerical Performance Indicator:	2.45
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS75928	Y
Count Date:	11/15/2023	11/15/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.029	25.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.501
Target Conc. (pCi/L, g, F):	4.988	4.984
Uncertainty (Calculated):	0.234	0.235
Result (pCi/L, g, F):	5.139	4.765
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.887	0.830
Numerical Performance Indicator:	0.32	-0.52
Percent Recovery:	103.02%	95.40%
Status vs Numerical Indicator:	Pass	Pass
Upper % Recovery Limits:	N/A	N/A
Lower % Recovery Limits:	125%	125%
		75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/3/2023	
Sample I.D.:	30632749014	
Sample MS I.D.:	30632749015	
Sample MSD I.D.:	30632749016	
Spike I.D.:	23-014	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	25.030	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.206	
MS Target Conc. (pCi/L, g, F):	24.288	
MSD Aliquot (L, g, F):	0.213	
MSD Target Conc. (pCi/L, g, F):	23.485	
MSD Spike Uncertainty (calculated):	1.142	
MSD Spike Uncertainty (calculated):	1.104	
Sample Result:	0.195	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.221	
Sample Matrix Spike Result:	23.625	
Sample Matrix Spike Duplicate Result:	3.778	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	21.758	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.496	
MS Numerical Performance Indicator:	-0.425	
MS Percent Recovery:	96.47%	
MSD Percent Recovery:	91.82%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	N/A	
MSD Status vs Recovery:	N/A	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Duplicate Sample Assessment	
Sample I.D.:	LCS75928
Duplicate Sample I.D.:	LCS75928
Sample Result (pCi/L, g, F):	5.139
Sample Duplicate Result (pCi/L, g, F):	0.887
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.765
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.830
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.604
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.68%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30632749014
Sample MS I.D.:	30632749015
Sample MSD I.D.:	30632749016
Sample Matrix Spike Result:	23.625
Sample Matrix Spike Duplicate Result:	3.778
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	21.758
Sample Matrix Spike Duplicate Result:	3.496
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.711
Duplicate Numerical Performance Indicator:	4.94%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	25%
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

CT
11/15-23

11/15/23

Quality Control Sample Performance Assessment



Analyst: **Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
Analyst: SLC
Date: 10/25/2023
Worklist: 75927
Matrix: WT

Method Blank Assessment	
MB Sample ID	3042593
MB concentration:	0.033
M/B 2 Sigma CSU:	0.096
MB MDC:	0.230
MB Numerical Performance Indicator:	0.67
MB Status vs Numerical Indicator:	Pass
MB Status vs MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS75927	YCS75927
Count Date:	11/14/2023	11/14/2023
Spike ID:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.029	25.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.507
Target Conc. (pCi/L, g, F):	4.948	4.934
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	4.812	4.165
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.845	0.742
Numerical Performance Indicator:	-0.31	-1.94
Percent Recovery:	97.24%	84.42%
Status vs Numerical Indicator:	Pass	Pass
Upper % Recovery Limits:	N/A	N/A
Lower % Recovery Limits:	125%	125%
	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS75927
Duplicate Sample I.D.:	LCS75927
Sample Result (pCi/L, g, F):	4.812
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.845
Sample Duplicate Result (pCi/L, g, F):	4.165
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.742
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.127
Duplicate Percent Recoveries) Duplicate RPD:	14.11%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET
11/14/23

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	9/26/2023	
Sample I.D.:	30632749003	
Sample MS I.D.:	30632749004	
Sample MSD I.D.:	30632749005	
Spike I.D.:	23-014	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	25.030	
Spike Volume Used in MSD (mL):	0.20	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.215	
MS Target Conc. (pCi/L, g, F):	23.269	
MSD Aliquot (L, g, F):	0.222	
MSD Target Conc. (pCi/L, g, F):	22.534	
MS Spike Uncertainty (calculated):	1.094	
MSD Spike Uncertainty (calculated):	1.059	
Sample Result:	0.355	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.286	
Sample Matrix Spike Result:	22.453	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	3.603	
Sample Matrix Spike Duplicate Result:	18.258	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.978	
MS Numerical Performance Indicator:	-0.608	
MSD Numerical Performance Indicator:	-2.860	
MS Percent Recovery:	94.97%	
MSD Percent Recovery:	79.45%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Warning	
MS Status vs Recovery:	N/A	
MSD Status vs Recovery:	N/A	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

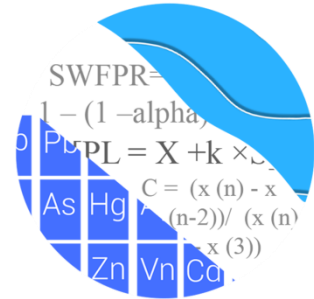
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30632749003
Sample MS I.D.:	30632749004
Sample MSD I.D.:	30632749005
Sample Matrix Spike Result:	22.453
Sample Matrix Spike Duplicate Result:	18.258
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.978
Duplicate Numerical Performance Indicator:	1.759
Duplicate Percent Recoveries) Duplicate RPD:	17.79%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Appendix D

GROUNDWATER STATS CONSULTING

June 30, 2023

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Miller Ash Pond
1st Semi-Annual Statistical Analysis – March, April, and May 2023

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the 1st Semi-Annual March, April, and May 2023 sample event for Alabama Power Company's Plant Miller Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GS-AP-MW-8, GS-AP-MW-13, GS-AP-MW-17V, MR-AP-MW-21, MR-AP-MW-22D, MR-AP-MW-22I, MR-AP-MW-22S, MR-AP-MW-23, and MR-AP-MW-23A
- **Downgradient wells:** MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13DR, MR-AP-MW-13SR, MR-AP-MW-14R, MR-AP-MW-15, and MR-AP-MW-16
- **Delineation wells:** MR-AP-MW-4V, MR-AP-MW-6V, MR-AP-MW-17H, MR-AP-MW-18H, MR-AP-MW-19HA, MR-AP-MW-20H, MR-AP-MW-20HS, MR-AP-MW-27HR, MR-AP-MW-28H, MR-AP-MW-30H, MR-AP-MW-31H, MR-AP-MW-32H, MR-AP-MW-33H, MR-AP-MW-34H, MR-AP-MW-35H, MR-AP-MW-36HR, and MR-AP-MW-37H
- **Piezometers:** MR-AP-MW-2V, MR-AP-MW-3V, and MR-AP-MW-19H

Data from delineation wells are plotted on the time series graphs and box plots, but do not require formal statistics. Piezometers only monitor water levels; therefore, they are not included in this analysis.

Original downgradient wells MR-AP-MW-7D, MR-AP-MW-7S, MR-AP-MW-8D, MR-AP-MW-8S, MR-AP-MW-9D, MR-AP-MW-9S, MR-AP-MW-13D, MR-AP-MW-13S, and MR-AP-MW-14 were abandoned in 2020 and are no longer included in the analysis. Data from replacement wells MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-MW-13DR, MR-AP-MW-13SR, and MR-AP-MW-14R are plotted on the time series graphs and box plots, and Appendix IV constituents are evaluated using confidence intervals, which require a minimum of 4 samples. Prediction limits will be used to evaluate Appendix III data at these wells when a minimum of 8 samples are available.

New upgradient wells MR-AP-MW-22D, MR-AP-MW-22I, MR-AP-MW-22S, MR-AP-MW-23, and MR-AP-MW-23A currently have sufficient samples to be incorporated into statistical calculations for interwell prediction limits and tolerance limits. However, due to elevated concentrations compared to neighboring upgradient wells for Appendix III constituents, data from these wells were not included in construction of interwell prediction limits. This step serves to provide statistical limits that are conservative (i.e., lower) from a regulatory perspective. While upgradient well GS-AP-MW-13 was abandoned in July 2019, historical data from this well are included in the construction interwell limits to represent background groundwater quality.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Kristina Rayner, Founder and Senior Statistician for Groundwater Stats Consulting.

The CCR program consists of the following constituents:

Appendix III (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Appendix IV (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter. For all constituents,

a substitution of the most recent reporting limit is used for non-detect data. In the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In the April 2020 background screening, Appendix III data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. A summary of the background screening is presented in a later section of this letter. Power curves are provided in this report to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods, site/data characteristics, and current number of compliance wells:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples (Intrawell): 13
- # Background Samples (Interwell): 50
- # Constituents: 7
- # Downgradient wells: 13

Summary of Statistical Methods – Appendix III Parameters

Based on the April 2020 background screening described below, the following statistical methods were recommended for Appendix III parameters:

- Intrawell prediction limits, combined with a 1-of-2 resample plan for pH
- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% (5% for each semi-annual sample event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification 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. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Update Summaries

Spring 2020

Intrawell prediction limits, which compare the most recent compliance sample from a given well to historical data from the same well, are updated by testing for the appropriateness of consolidating new sampling observations with the screened background data and were last updated in April 2020. As discussed in the Statistical Analysis Plan (August 2020), intrawell prediction limits are used to pH at all wells due to spatial variation for this parameter. Historical data were evaluated for updating with newer data through May 2019 through the use of time series graphs and Tukey's outlier test to identify potential outliers, when necessary, as well as the Mann Whitney test for equality of medians. This process is described below for the 2021 update and requires a minimum of four new compliance points.

During the 2020 screening, all background data sets for pH were updated through May 2019, with the exception of wells MR-AP-MW-13S, MR-AP-MW-14, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-6, and MR-AP-PZ-5 for pH, which had statistically significant differences in medians. All results were included with the background update report along with a summary of the background periods utilized for the cases discussed above identified by the Mann-Whitney test with statistically significant differences.

Interwell prediction limits are used to compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data for boron, calcium, chloride, fluoride, sulfate, and TDS. As mentioned above, these limits are updated following each sampling event after careful screening for new outliers. Data from upgradient wells were re-screened for newly developing trends to determine whether adjustments to the background data sets were required to eliminate the trend. No adjustments were required because the period of records was short and the magnitudes of the trends were low relative to the average concentrations in background.

Fall 2021

Outlier Analysis

Prior to constructing prediction limits, proposed background data through May 2021 were reviewed to identify any newly suspected outliers since the last background update performed in May 2019 at all wells for pH and through September 2021 at upgradient wells for boron, calcium, chloride, fluoride, sulfate, and TDS. Visual screening was used to identify potential new outliers; however, none were identified. When values are identified

as outliers, these measurements are flagged with “o” and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective.

A previously flagged outlier for pH in well MR-AP-MW-1 was unflagged because it was similar to more recent concentrations. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A list of flagged outliers follows this report (Figure C).

Intrawell - Mann-Whitney Test of Medians

For pH, which is tested using intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through May 2019 to compliance data through May 2021. When no statistically significant difference in medians between the two groups is found at a 99% confidence level, background data may be updated with newer compliance data. Statistically significant differences (either an increase or decrease in median concentrations) were found between the two groups for the following well/constituent pairs:

Increase

- pH: MR-AP-MW-10, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-6, and MR-AP-PZ5

Decrease

- None

Typically, when the test concludes that the medians of the two groups are statistically significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data unless it can be reasonably justified that the change in concentrations reflects a shift unrelated to practices at the site. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

While the Mann Whitney test identified differences in the medians for the well/constituent pairs listed above, in both cases the group of new measurements were similar to those observed in the historical record and the increases were marginal. Therefore, these records were updated to include data through May 2021. Additionally, the Mann Whitney test did not identify a statistically significant difference at the 99% confidence level for pH in well MR-AP-MW-1; however, this record was not updated at this time because the

majority of the most recent measurements are higher than those reported historically. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. As more data are collected, this record will be re-evaluated for updating. All other well/constituent pairs utilize historical data through May 2021 for the intrawell prediction limits and a list of well/constituent pairs with truncated portions of background records follow this report (Background Date Ranges).

Interwell - Trend Tests

The Sen's Slope/Mann Kendall trend test was used to evaluate all data through September 2021 at upgradient wells with sufficient samples for trend testing (i.e., a minimum of 6 samples) for parameters utilizing interwell prediction limits (boron, calcium, chloride, fluoride, sulfate, and TDS). When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data may require deselection prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative (i.e., lower) from a regulatory perspective. While no statistically significant decreasing trends were identified, statistically significant increasing trends were noted for the following well/constituent pairs:

Increasing

- Boron: GS-AP-MW-8
- Chloride: GS-AP-MW-8

Decreasing

- None

These trends required no adjustments because the period of record is short and the magnitudes of the trends are low relative to the average concentrations in background.

Evaluation of Appendix III Parameters – March, April, and May 2023

Prediction Limits

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed for pH using screened background data through May 2021 at each well except for well MR-AP-MW-1 as discussed above (Figure D). Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. This statistical method removes the element of variation across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility. The April/May 2023 observation is

compared to its respective background from the same well to determine whether initial exceedances are present.

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, sulfate, and TDS (Figure E). Interwell prediction limits pool upgradient well data through May 2023 to establish a background limit for an individual constituent. The March, April, or May 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present. As discussed previously, due to higher concentrations among newer upgradient wells MR-AP-MW-22D, MR-AP-MW-22I, MR-AP-MW-22S, MR-AP-MW-23, and MR-AP-MW-23A, data from these wells were not included in construction of the interwell prediction limits as the resulting limits would not be conservative (i.e., lower) from a regulatory perspective.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research is required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. Both summary tables and complete graphical results for intrawell and interwell prediction limits may be found following this letter in Figures D and E, respectively (pages 16-20). Exceedances for both intrawell and interwell prediction limits were identified for the following well/constituent pairs:

Intrawell:

- pH: MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-10, and MR-AP-MW-12

Interwell:

- Boron: MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-12, MR-AP-MW-15, and MR-AP-MW-16
- Calcium: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-15, and MR-AP-MW-16
- Chloride: MR-AP-MW-3S, MR-AP-MW-5, and MR-AP-MW-6,
- Fluoride: MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-10, and MR-AP-MW-12

- Sulfate: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-15, and MR-AP-MW-16
- TDS: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-11, and MR-AP-MW-12

Trend Test Evaluation

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. When trends are identified in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. New upgradient wells MR-AP-MW-22D, MR-AP-MW-22I, MR-AP-MW-22S, MR-AP-MW-23, and MR-AP-MW-23A were included due to sufficient sample size for trend testing (i.e., a minimum of 6 samples). A summary of the trend test results follows this letter (pages 21-24). Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: GS-AP-MW-8 (upgradient), MR-AP-MW-2, MR-AP-MW-3S, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-12, and MR-AP-MW-15
- Calcium: MR-AP-MW-6 and MR-AP-MW-15
- Chloride: GS-AP-MW-8 (upgradient), MR-AP-MW-3S, and MR-AP-MW-6
- Fluoride: GS-AP-MW-13 (upgradient), MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-10, and MR-AP-MW-12
- pH: MR-AP-MW-4 and MR-AP-MW-10
- Sulfate: MR-AP-MW-12 and MR-AP-MW-15

Decreasing:

- Boron: MR-AP-MW-22I (upgradient), MR-AP-MW-3D, MR-AP-MW-4, and MR-AP-PZ-5
- Calcium: MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, and MR-AP-MW-16
- Chloride: MR-AP-MW-5
- Sulfate: MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, and MR-AP-MW-16
- TDS: MR-AP-MW-3D, MR-AP-MW-4, and MR-AP-MW-5

Evaluation of Appendix IV Parameters – March, April, and May 2023

Data from all wells for Appendix IV parameters were reassessed for outliers during previous analyses through visual screening and no new outliers were flagged during this analysis. A summary of any previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) utilized during the 2021 2nd semi-annual statistical analysis report were used for the confidence interval analyses. The GWPS will be updated every two years and will be updated again during the 2023 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

Interwell Upper Tolerance Limits

First, background limits were determined using tolerance limits constructed from pooled upgradient well data through September 2021 (Figure G). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed. A summary of the upper tolerance limits follows this letter (page 25).

Groundwater Protection Standards

These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two was used as the GWPS (Figure H, page 26) in the confidence interval comparisons described below. Exceptions are noted in Figure H for barium, combined radium 226 + 228, and lithium. For these parameters, the respective MCLs or Federally Derived limits were used as the GWPS rather than the higher background UTLs to maintain the more conservative standard.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through May 2023 for each of the Appendix IV parameters (Figure I). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. The lower confidence limit, which is

constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. Nonparametric confidence intervals were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

As mentioned above, well/constituent pairs containing 100% non-detects for the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter (pages 27-30). Exceedances were identified for the following well/constituent pairs:

- Arsenic: MR-AP-MW-3D
- Cobalt: MR-AP-MW-2 and MR-AP-MW-13SR
- Lithium: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, and MR-AP-MW-16
- Molybdenum: MR-AP-MW-10 and MR-AP-MW-12

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Miller Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

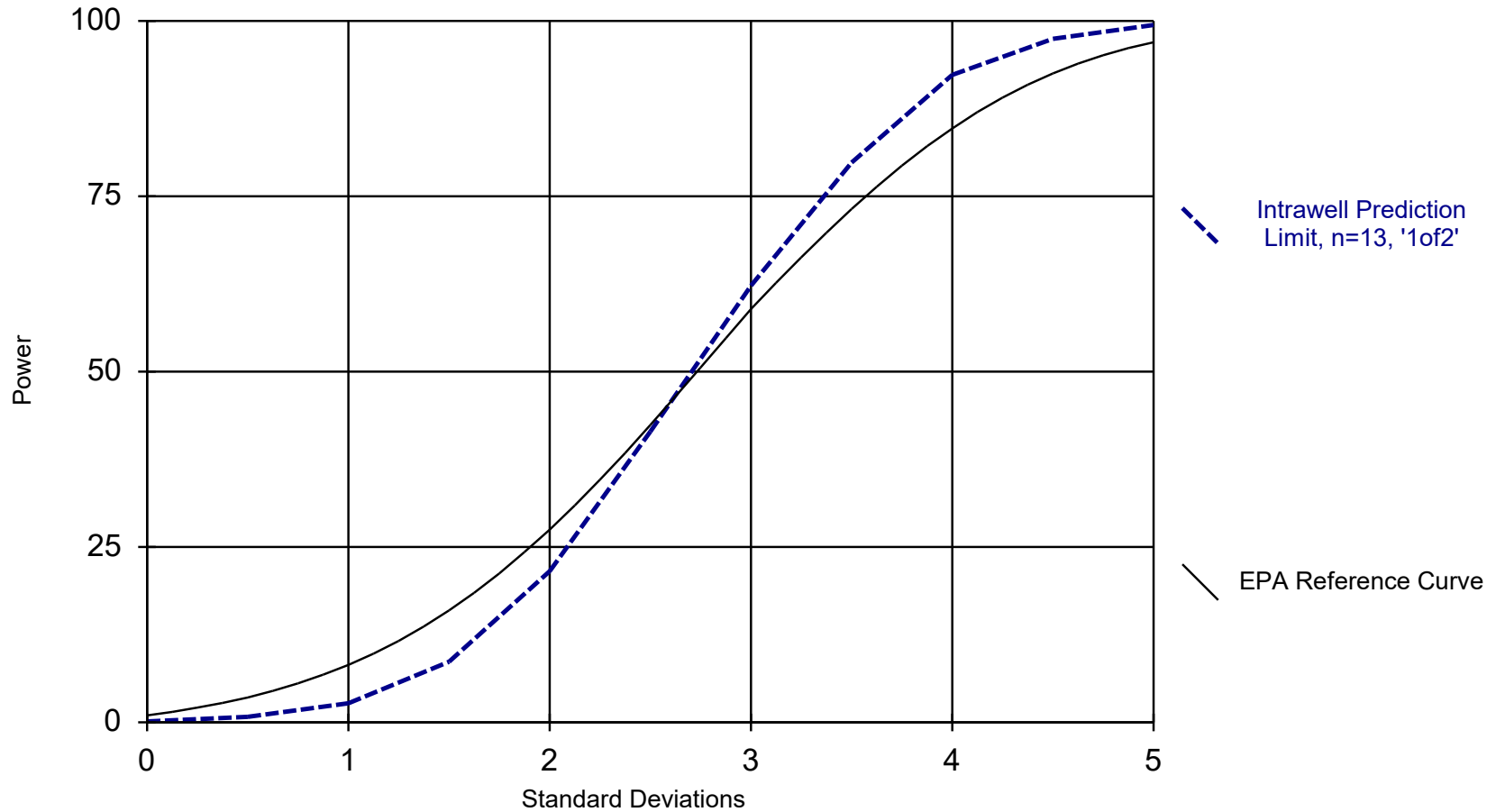


Andrew Collins
Project Manager



Kristina Rayner
Groundwater Statistician

Intrawell Power Curve

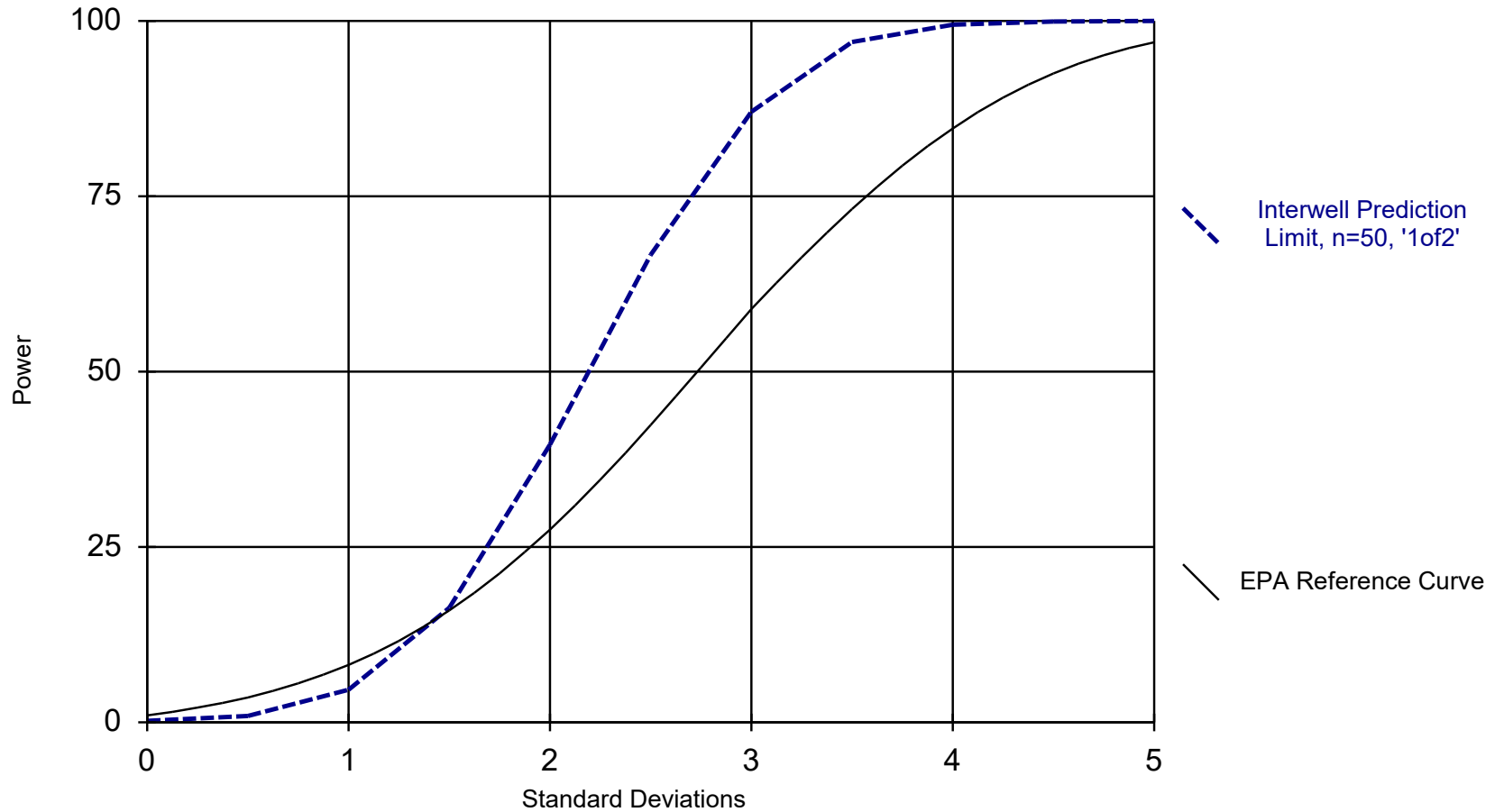


Kappa = 2.656, based on 13 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 6/29/2023 4:34 PM

Plant Miller Client: Southern Company Data: Miller Ash Pond

Interwell Power Curve



Kappa = 2.101, based on 13 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 6/29/2023 4:34 PM

Plant Miller Client: Southern Company Data: Miller Ash Pond

Date Ranges

Date: 6/29/2023 4:40 PM

Plant Miller Client: Southern Company Data: Miller Ash Pond

pH, Field (pH)

MR-AP-MW-1 background:7/25/2016-10/9/2018

100% Non-Detects: Appendix IV Downgradient

Analysis Run 6/27/2023 8:21 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Antimony (mg/L)

MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-13DR, MR-AP-MW-13SR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Beryllium (mg/L)

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13DR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Cadmium (mg/L)

MR-AP-MW-1, MR-AP-MW-11, MR-AP-MW-13DR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Cobalt (mg/L)

MR-AP-MW-5, MR-AP-MW-7DR, MR-AP-PZ-5

Lead (mg/L)

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Mercury (mg/L)

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13DR, MR-AP-MW-13SR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Selenium (mg/L)

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13DR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Thallium (mg/L)

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13DR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Intrawell Prediction Limits - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:29 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	MR-AP-MW-10	7.103	6.575	5/3/2023	7.15	Yes	18	6.839	0.1089	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-12	6.685	6.441	5/3/2023	6.74	Yes	17	6.563	0.04982	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-4	6.067	5.624	5/2/2023	6.07	Yes	19	5.846	0.0927	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-5	7.268	6.893	4/25/2023	7.37	Yes	18	7.08	0.07743	0	None	No	0.0002894	Param Intra 1 of 2

Intrawell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:29 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	GS-AP-MW-13	6.931	6.594	n/a	1 future	n/a	13	6.762	0.06353	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	GS-AP-MW-8	6.099	5.378	3/27/2023	5.82	No	17	1110	111.7	0	None	x^4	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-1	9.647	7.368	5/2/2023	8.6	No	14	8.508	0.4386	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-10	7.103	6.575	5/3/2023	7.15	Yes	18	6.839	0.1089	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-11	7.3	6.5	5/3/2023	6.52	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, Field (pH)	MR-AP-MW-12	6.685	6.441	5/3/2023	6.74	Yes	17	6.563	0.04982	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-15	6.587	6.323	4/19/2023	6.33	No	18	6.455	0.05437	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-16	6.436	5.758	4/19/2023	6.35	No	18	6.097	0.1401	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-2	6.422	5.872	5/2/2023	6.12	No	18	6.147	0.1135	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3D	6.954	6.624	5/2/2023	6.82	No	19	6.789	0.06919	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3S	9.882	8.717	5/2/2023	9.28	No	19	9.299	0.2437	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-4	6.067	5.624	5/2/2023	6.07	Yes	19	5.846	0.0927	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-5	7.268	6.893	4/25/2023	7.37	Yes	18	7.08	0.07743	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-6	6.213	5.875	4/25/2023	6.06	No	19	6.044	0.07073	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-PZ-5	8.63	7.584	4/25/2023	8.46	No	19	8.107	0.2188	0	None	No	0.0002894	Param Intra 1 of 2

Interwell Prediction Limits - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MR-AP-MW-10	0.1015	n/a	5/3/2023	6.84	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-12	0.1015	n/a	5/3/2023	5.38	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-15	0.1015	n/a	4/19/2023	1.36	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-16	0.1015	n/a	4/19/2023	2.18	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-2	0.1015	n/a	5/2/2023	0.216	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3D	0.1015	n/a	5/2/2023	0.324	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3S	0.1015	n/a	5/2/2023	0.245	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-4	0.1015	n/a	5/2/2023	0.382	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-5	0.1015	n/a	4/25/2023	0.961	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-6	0.1015	n/a	4/25/2023	0.865	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-PZ-5	0.1015	n/a	4/25/2023	0.249	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-1	63.8	n/a	5/2/2023	130	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-10	63.8	n/a	5/3/2023	118	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-11	63.8	n/a	5/3/2023	231	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-15	63.8	n/a	4/19/2023	66.4	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-16	63.8	n/a	4/19/2023	158	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-2	63.8	n/a	5/2/2023	251	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-3D	63.8	n/a	5/2/2023	94.5	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-4	63.8	n/a	5/2/2023	146	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-5	63.8	n/a	4/25/2023	229	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-6	63.8	n/a	4/25/2023	147	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-3S	21	n/a	5/2/2023	84.3	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-5	21	n/a	4/25/2023	22.2	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-6	21	n/a	4/25/2023	32.7	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-10	0.2978	n/a	5/3/2023	0.902	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-12	0.2978	n/a	5/3/2023	1.18	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-2	0.2978	n/a	5/2/2023	0.321	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-3D	0.2978	n/a	5/2/2023	0.348	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-3S	0.2978	n/a	5/2/2023	0.311	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-5	0.2978	n/a	4/25/2023	0.424	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2978	n/a	4/25/2023	2.23	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-1	141	n/a	5/2/2023	445	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-10	141	n/a	5/3/2023	1250	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-11	141	n/a	5/3/2023	716	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-12	141	n/a	5/3/2023	513	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-15	141	n/a	4/19/2023	281	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-16	141	n/a	4/19/2023	553	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-2	141	n/a	5/2/2023	1570	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	141	n/a	5/2/2023	264	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	141	n/a	5/2/2023	161	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-4	141	n/a	5/2/2023	368	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-5	141	n/a	4/25/2023	744	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-6	141	n/a	4/25/2023	549	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	552	n/a	5/2/2023	920	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	552	n/a	5/3/2023	2110	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	552	n/a	5/3/2023	1240	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	552	n/a	5/3/2023	1050	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	552	n/a	5/2/2023	2400	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	552	n/a	5/2/2023	630	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	552	n/a	5/2/2023	638	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	552	n/a	5/2/2023	724	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	552	n/a	4/25/2023	1200	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	552	n/a	4/25/2023	896	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	552	n/a	4/25/2023	712	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	MR-AP-MW-1	141	n/a	5/2/2023	445	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-10	141	n/a	5/3/2023	1250	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-11	141	n/a	5/3/2023	716	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-12	141	n/a	5/3/2023	513	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-15	141	n/a	4/19/2023	281	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-16	141	n/a	4/19/2023	553	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-2	141	n/a	5/2/2023	1570	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	141	n/a	5/2/2023	264	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	141	n/a	5/2/2023	161	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-4	141	n/a	5/2/2023	368	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-5	141	n/a	4/25/2023	744	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-6	141	n/a	4/25/2023	549	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-PZ-5	141	n/a	4/25/2023	6.92	No	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	552	n/a	5/2/2023	920	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	552	n/a	5/3/2023	2110	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	552	n/a	5/3/2023	1240	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	552	n/a	5/3/2023	1050	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	552	n/a	4/19/2023	428	No	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	552	n/a	4/19/2023	472	No	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	552	n/a	5/2/2023	2400	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	552	n/a	5/2/2023	630	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	552	n/a	5/2/2023	638	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	552	n/a	5/2/2023	724	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	552	n/a	4/25/2023	1200	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	552	n/a	4/25/2023	896	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	552	n/a	4/25/2023	712	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2

Trend Tests - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:54 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0.0002361	97	81	Yes	20	65	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-10	0.4412	115	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-12	0.9402	107	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-15	0.06903	139	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-2	0.01298	109	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-221 (bg)	-0.01548	-19	-18	Yes	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3D	-0.02718	-115	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3S	0.01214	98	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-4	-0.02278	-127	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-6	0.01273	86	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-PZ-5	-0.03554	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-15	1.249	127	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-16	-12.98	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-3D	-26.36	-177	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-4	-25.16	-174	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-5	-14.33	-131	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-6	4.73	141	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1849	113	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3S	9.72	134	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-5	-2.931	-99	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-6	1.556	148	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-10	0.08583	156	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-12	0.08774	133	81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-2	0.03571	127	87	Yes	21	9.524	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3D	0.02561	116	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3S	0.01818	119	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-5	0.02684	131	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2706	159	87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-10	0.06711	157	92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-4	0.0386	114	98	Yes	23	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-12	158.8	91	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-15	12.69	133	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-16	-38.5	-95	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	-81.4	-168	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-4	-88.28	-174	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-5	-42.97	-128	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	-130.8	-169	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	-128.5	-161	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	-84.12	-140	-81	Yes	20	0	n/a	n/a	0.01	NP

Trend Tests - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:54 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-13 (bg)	5.9e-10	0	38	No	12	41.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-17V (bg)	-0.002946	-10	-25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0.0002361	97	81	Yes	20	65	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-10	0.4412	115	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-12	0.9402	107	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-15	0.06903	139	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-16	-0.06903	-57	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-2	0.01298	109	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-21 (bg)	0.0005035	4	25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22D (bg)	-0.01106	-4	-18	No	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22I (bg)	-0.01548	-19	-18	Yes	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22S (bg)	-0.0006685	-1	-18	No	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23 (bg)	-0.01668	-9	-18	No	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23A (bg)	-0.02678	-17	-18	No	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3D	-0.02718	-115	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3S	0.01214	98	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-4	-0.02278	-127	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-5	-0.002017	-24	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-6	0.01273	86	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-PZ-5	-0.03554	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-13 (bg)	-2.607	-32	-38	No	12	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-17V (bg)	0.1233	2	25	No	9	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-8 (bg)	-0.414	-55	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-1	-6.554	-41	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-10	6.703	71	87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-11	1.62	23	87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-15	1.249	127	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-16	-12.98	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-2	2.846	53	87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-21 (bg)	0.9182	4	25	No	9	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22D (bg)	6.273	5	18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22I (bg)	-0.9894	-17	-18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22S (bg)	28.63	15	18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23 (bg)	5.19	6	18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23A (bg)	6.465	12	18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-3D	-26.36	-177	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-4	-25.16	-174	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-5	-14.33	-131	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-6	4.73	141	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-13 (bg)	0.1178	10	38	No	12	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-17V (bg)	-0.2328	-22	-25	No	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1849	113	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-21 (bg)	0.5809	7	25	No	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22D (bg)	308.1	9	18	No	7	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22I (bg)	-35.95	-11	-18	No	7	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22S (bg)	-1.337	-4	-18	No	7	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23 (bg)	62.86	9	18	No	7	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23A (bg)	31.29	8	18	No	7	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3S	9.72	134	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-5	-2.931	-99	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-6	1.556	148	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-17V (bg)	-0.001533	-5	-25	No	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-8 (bg)	0.002916	39	87	No	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-10	0.08583	156	87	Yes	21	0	n/a	n/a	0.01	NP

Trend Tests - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:54 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	MR-AP-MW-12	0.08774	133	81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-2	0.03571	127	87	Yes	21	9.524	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-21 (bg)	-0.009852	-6	-25	No	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22D (bg)	0.01582	2	18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22I (bg)	-0.03429	-13	-18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22S (bg)	-0.07253	-13	-18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23 (bg)	-0.008649	-9	-18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23A (bg)	-0.002005	-2	-18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3D	0.02561	116	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3S	0.01818	119	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-5	0.02684	131	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2706	159	87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-13 (bg)	-0.05825	-34	-43	No	13	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-17V (bg)	-0.03831	-15	-25	No	9	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-8 (bg)	-0.02608	-65	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-10	0.06711	157	92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-12	-0.009366	-22	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-21 (bg)	0.04529	8	25	No	9	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22D (bg)	0.141	9	18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22I (bg)	0.2644	17	18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22S (bg)	0.0711	5	18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-23 (bg)	-0.01772	-6	-18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-23A (bg)	-0.01872	-5	-18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-4	0.0386	114	98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-5	0.004042	21	92	No	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-13 (bg)	0.01849	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-17V (bg)	-1.088	-18	-25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-8 (bg)	0.1674	43	81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-1	-20.26	-49	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-10	47.78	85	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-11	-1.614	-11	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-12	158.8	91	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-15	12.69	133	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-16	-38.5	-95	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-2	13.04	36	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-21 (bg)	6.468	22	25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22D (bg)	70.02	17	18	No	7	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22I (bg)	-5.109	-7	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22S (bg)	12.81	5	18	No	7	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23 (bg)	0.32	5	18	No	7	14.29	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23A (bg)	15.88	17	18	No	7	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	-81.4	-168	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	10.46	54	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-4	-88.28	-174	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-5	-42.97	-128	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-6	5.614	39	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-13 (bg)	-7.182	-29	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-17V (bg)	-3.729	-10	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-8 (bg)	-1.48	-32	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	-10.78	-20	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	48.21	79	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	-7.237	-25	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	196.4	66	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	17.27	44	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-21 (bg)	17.6	12	25	No	9	0	n/a	n/a	0.01	NP

Trend Tests - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:54 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22D (bg)	241.6	5	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22I (bg)	-91.8	-17	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22S (bg)	48.13	7	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23 (bg)	44.51	7	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23A (bg)	149	11	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	-130.8	-169	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	17.17	49	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	-128.5	-161	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	-84.12	-140	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	4.811	45	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	-33.87	-61	-81	No	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limits - Summary Table

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/4/2022, 3:38 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	61	n/a	n/a	68.85	n/a	n/a	0.04377	NP Inter
Arsenic (mg/L)	n/a	0.00645	n/a	n/a	n/a	61	n/a	n/a	27.87	n/a	n/a	0.04377	NP Inter
Barium (mg/L)	n/a	12.4	n/a	n/a	n/a	61	n/a	n/a	0	n/a	n/a	0.04377	NP Inter
Beryllium (mg/L)	n/a	0.003	n/a	n/a	n/a	61	n/a	n/a	77.05	n/a	n/a	0.04377	NP Inter
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	61	n/a	n/a	77.05	n/a	n/a	0.04377	NP Inter
Chromium (mg/L)	n/a	0.01	n/a	n/a	n/a	61	n/a	n/a	45.9	n/a	n/a	0.04377	NP Inter
Cobalt (mg/L)	n/a	0.00362	n/a	n/a	n/a	61	n/a	n/a	78.69	n/a	n/a	0.04377	NP Inter
Combined Radium 226 + 228 (pCi/L)	n/a	7.07	n/a	n/a	n/a	61	n/a	n/a	0	n/a	n/a	0.04377	NP Inter
Fluoride, total (mg/L)	n/a	0.436	n/a	n/a	n/a	63	n/a	n/a	0	n/a	n/a	0.0395	NP Inter
Lead (mg/L)	n/a	0.00189	n/a	n/a	n/a	61	n/a	n/a	88.52	n/a	n/a	0.04377	NP Inter
Lithium (mg/L)	n/a	1.2	n/a	n/a	n/a	61	n/a	n/a	18.03	n/a	n/a	0.04377	NP Inter
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	61	n/a	n/a	77.05	n/a	n/a	0.04377	NP Inter
Molybdenum (mg/L)	n/a	0.0127	n/a	n/a	n/a	61	n/a	n/a	31.15	n/a	n/a	0.04377	NP Inter
Selenium (mg/L)	n/a	0.01	n/a	n/a	n/a	61	n/a	n/a	77.05	n/a	n/a	0.04377	NP Inter
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	61	n/a	n/a	77.05	n/a	n/a	0.04377	NP Inter

MILLER AP GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.00645	0.01
Barium	mg/L	12.4	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	0.00362	0.006
Combined Radium-226/228	pCi/L	7.07	5
Fluoride	mg/L	0.436	4
Lead	mg/L	0.00189	0.015
Lithium	mg/L	1.2	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0127	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

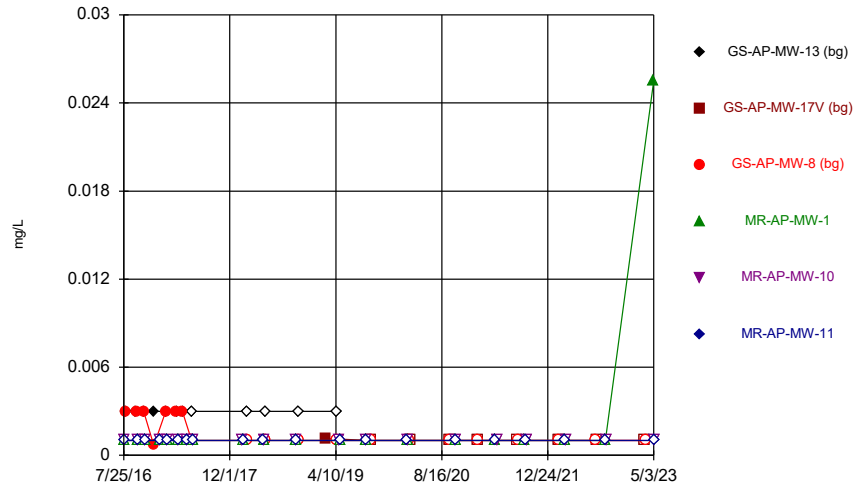
Confidence Intervals - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/30/2023, 11:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MR-AP-MW-3D	0.01356	0.01059	0.01	Yes	8	0.01208	0.001397	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-13SR	0.09827	0.03008	0.006	Yes	6	0.06708	0.0306	0	None	x^2	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-2	0.05376	0.03909	0.006	Yes	8	0.04643	0.006918	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-1	0.2292	0.1148	0.04	Yes	8	0.172	0.05398	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-10	0.2817	0.1605	0.04	Yes	8	0.22	0.06295	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.3766	0.1619	0.04	Yes	8	0.2693	0.1012	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-12	0.1932	0.09128	0.04	Yes	8	0.1423	0.04809	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-16	0.1486	0.04779	0.04	Yes	8	0.09821	0.04757	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.273	0.211	0.04	Yes	8	0.2483	0.02696	0	None	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-3D	0.1207	0.09887	0.04	Yes	8	0.1098	0.01031	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3S	0.3468	0.2527	0.04	Yes	8	0.2998	0.04435	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.07907	0.06108	0.04	Yes	8	0.07008	0.008485	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.2404	0.1957	0.04	Yes	8	0.2189	0.02254	0	None	x^6	0.01	Param.
Lithium (mg/L)	MR-AP-MW-6	0.08922	0.07675	0.04	Yes	8	0.08299	0.005883	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7DR	0.1343	0.1047	0.04	Yes	6	0.1195	0.0108	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7SR	0.1711	0.1375	0.04	Yes	6	0.1543	0.01223	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9DR	0.086	0.0638	0.04	Yes	6	0.0749	0.008082	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-PZ-5	0.1711	0.1349	0.04	Yes	8	0.153	0.0171	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-10	0.6932	0.1961	0.1	Yes	8	0.4363	0.2422	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-12	0.961	0.4353	0.1	Yes	8	0.6981	0.248	0	None	No	0.01	Param.

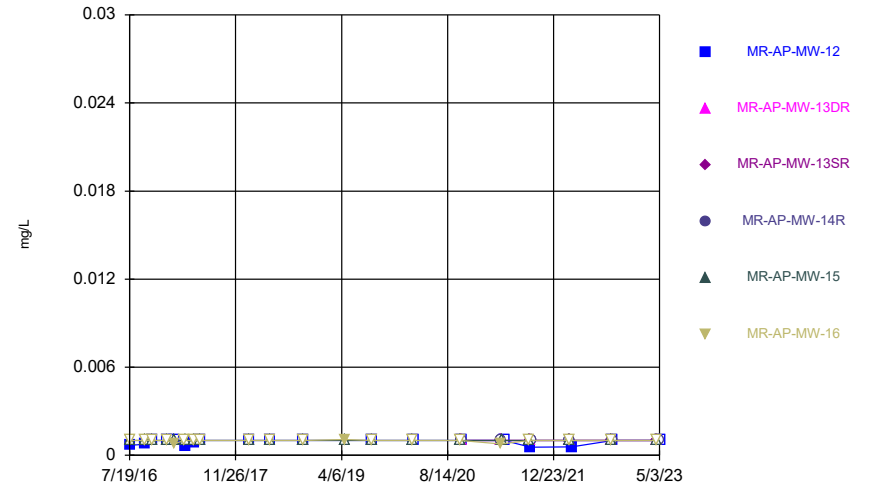
FIGURE A.

Time Series



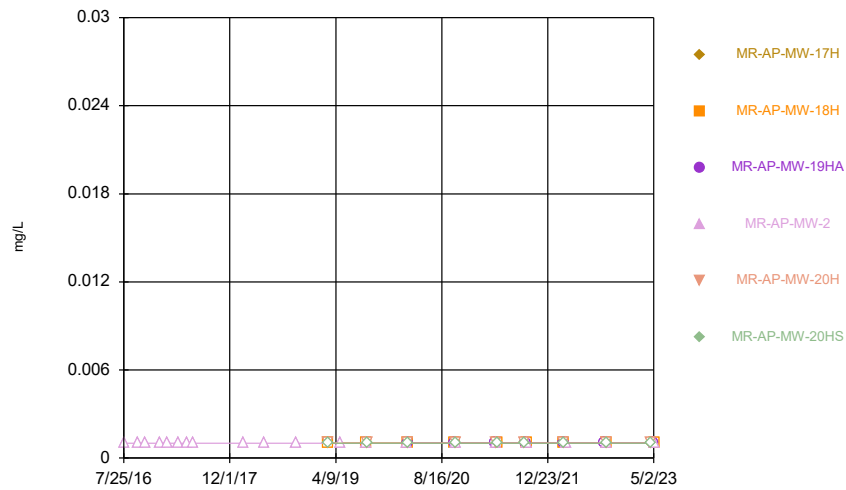
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



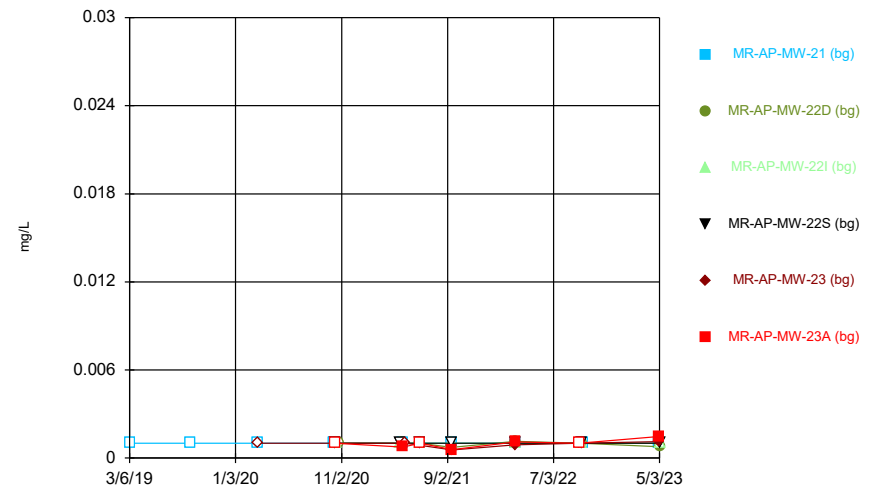
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



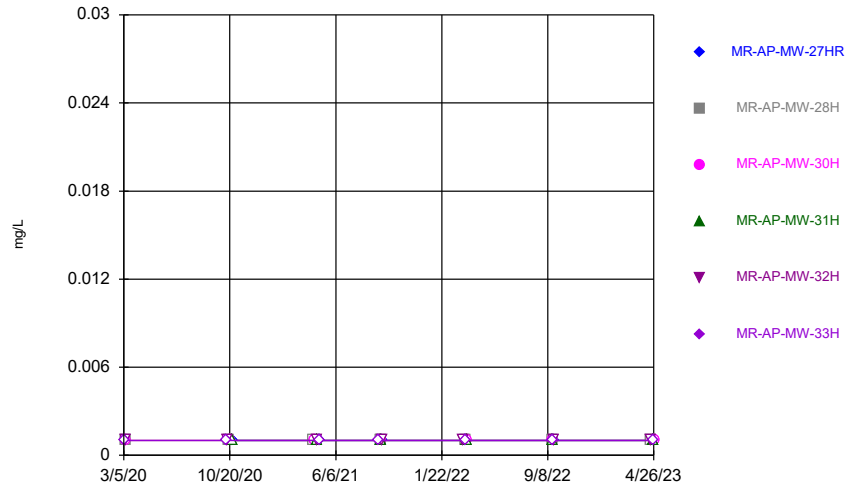
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



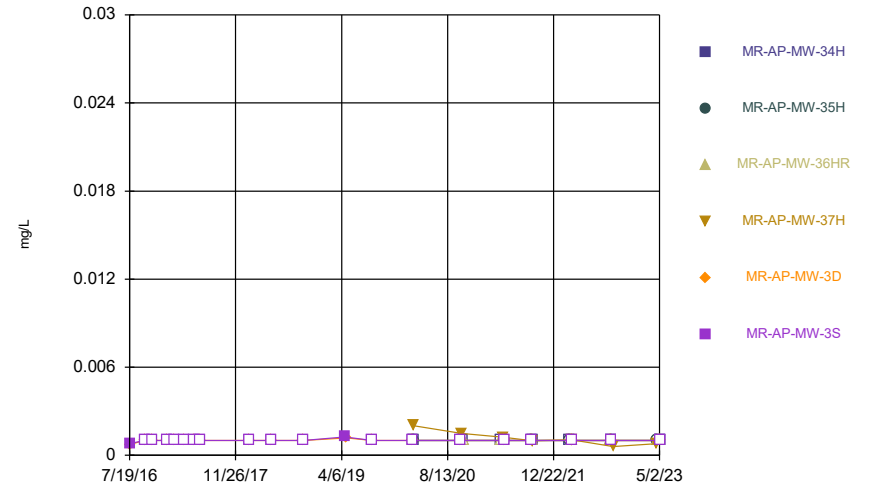
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



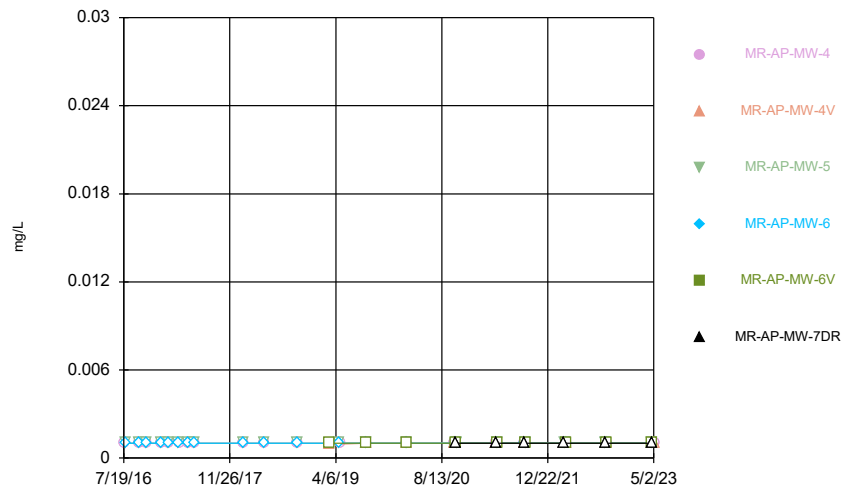
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Time Series



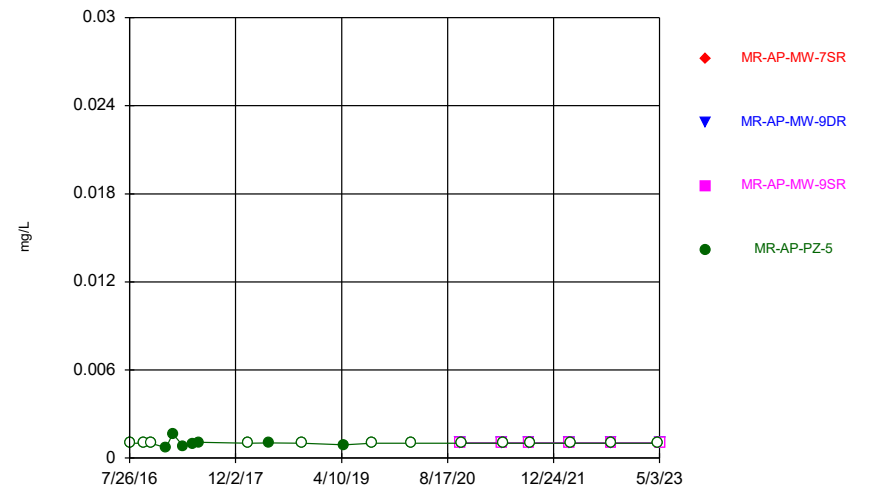
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Time Series



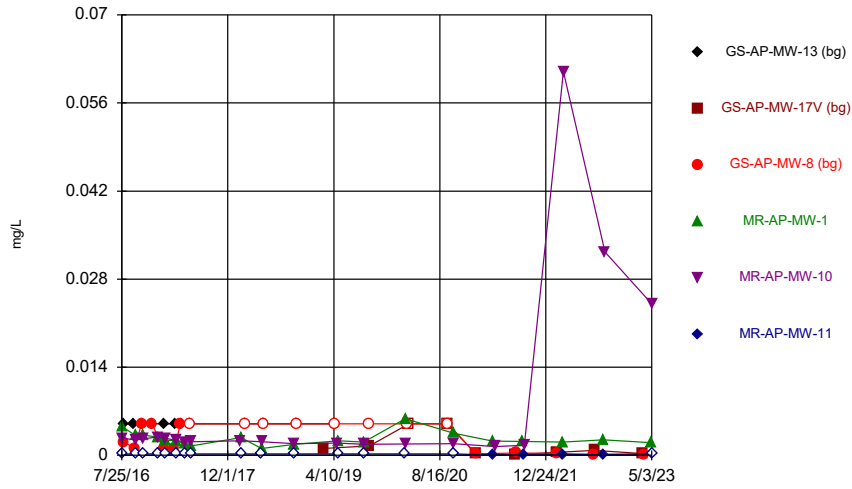
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Time Series



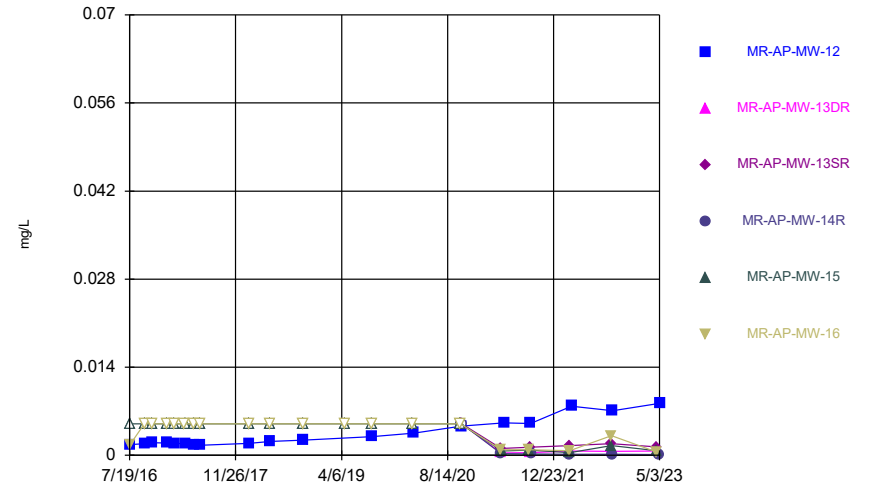
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Time Series



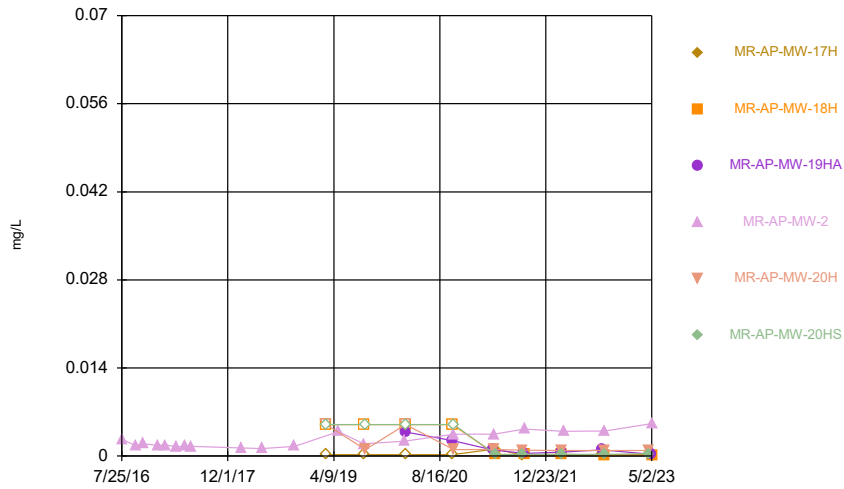
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Time Series



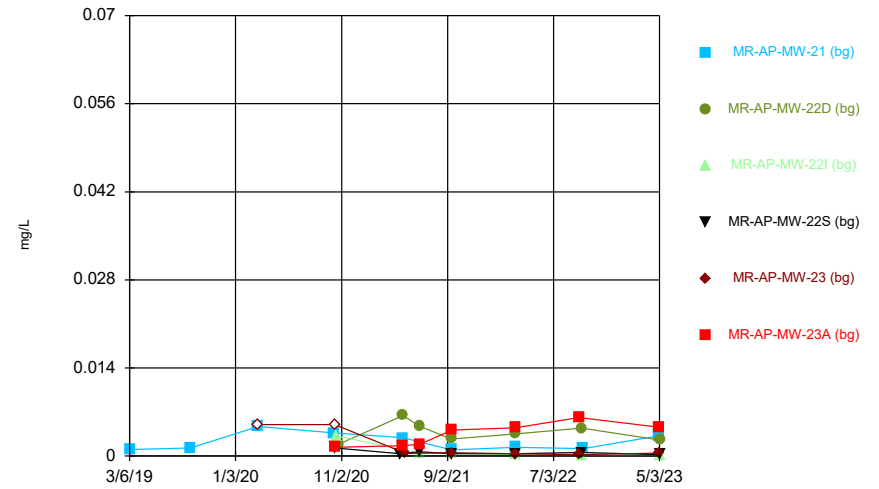
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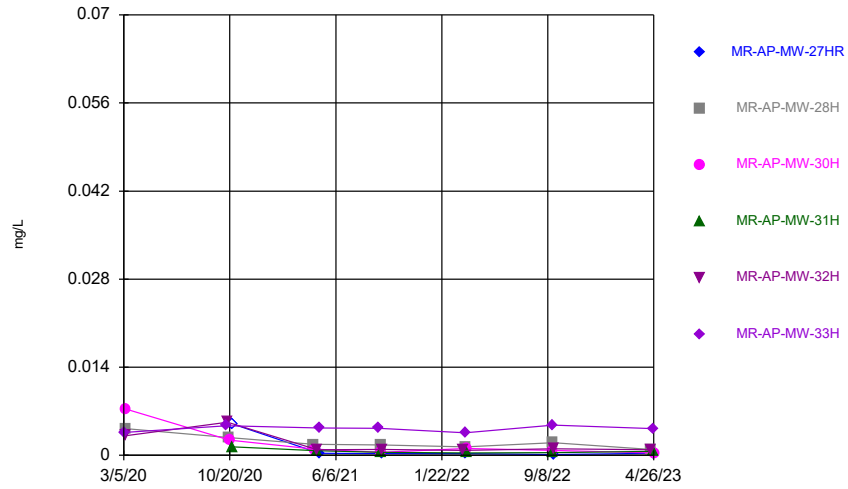
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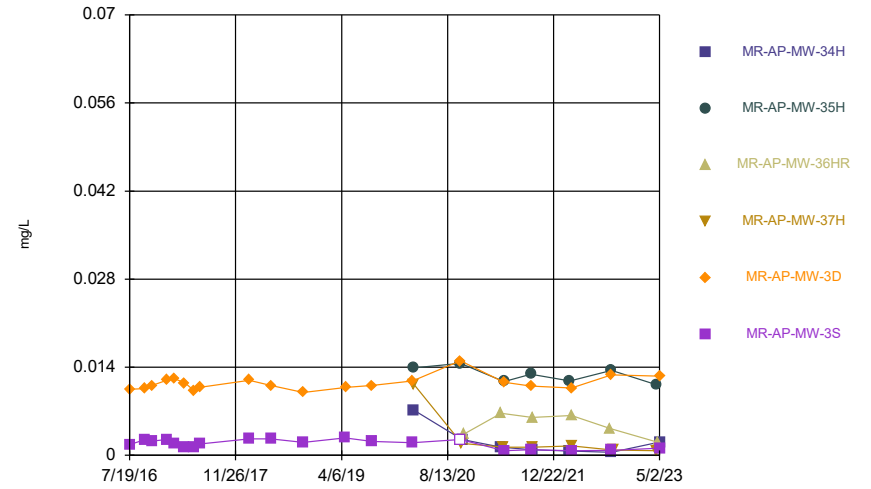
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Time Series



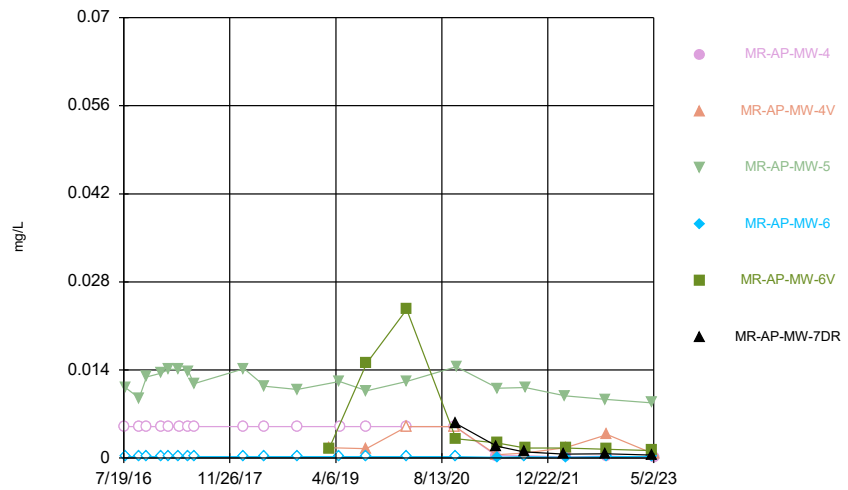
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Time Series



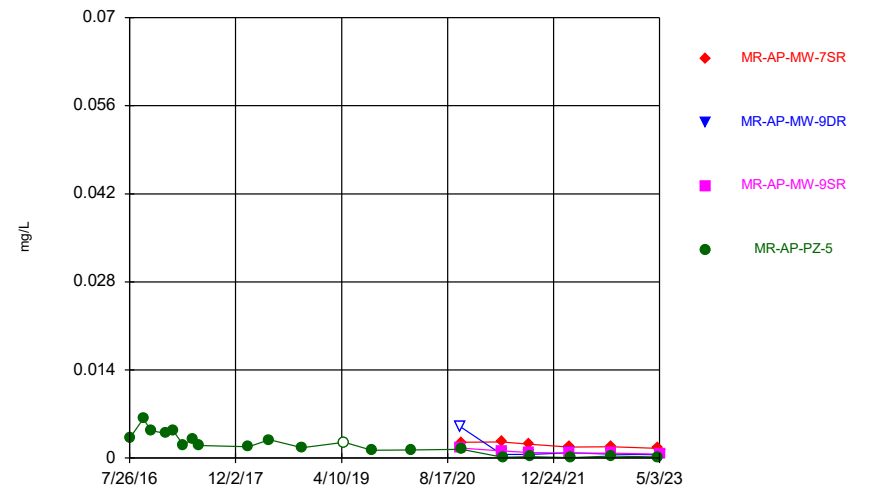
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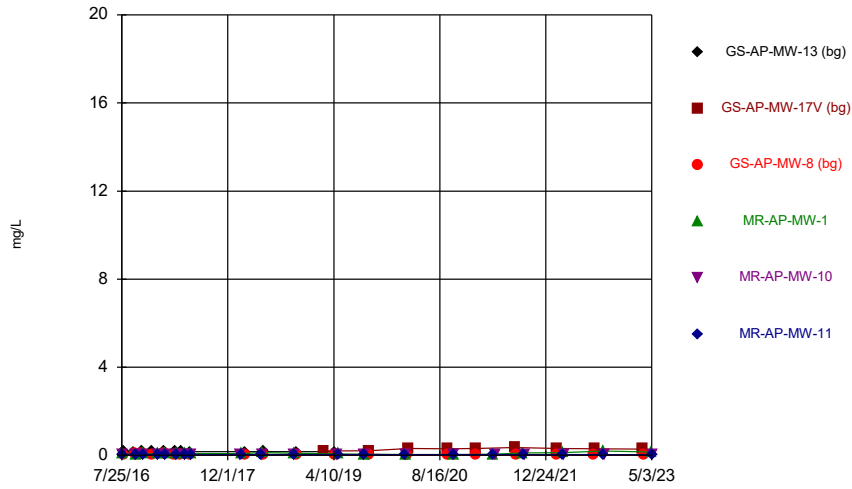
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Time Series



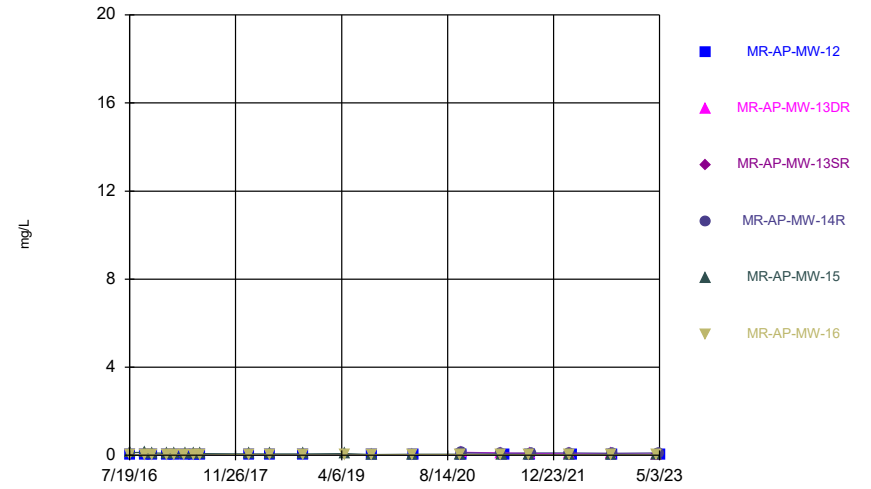
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Time Series



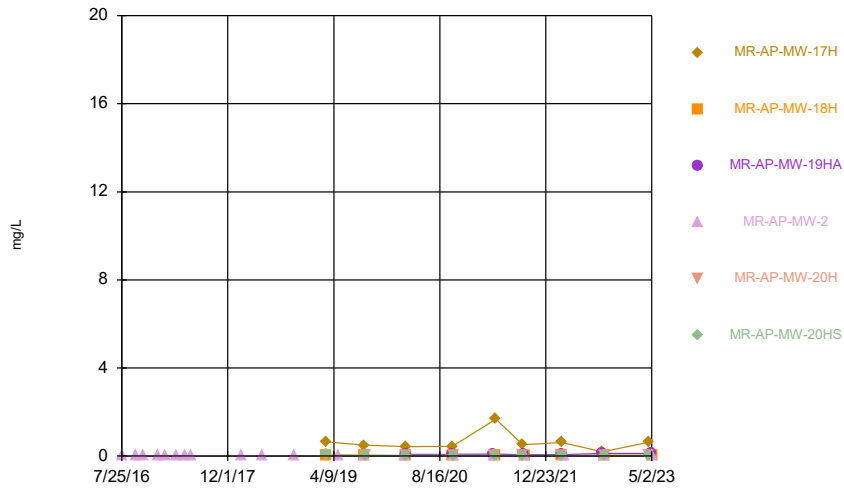
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Time Series



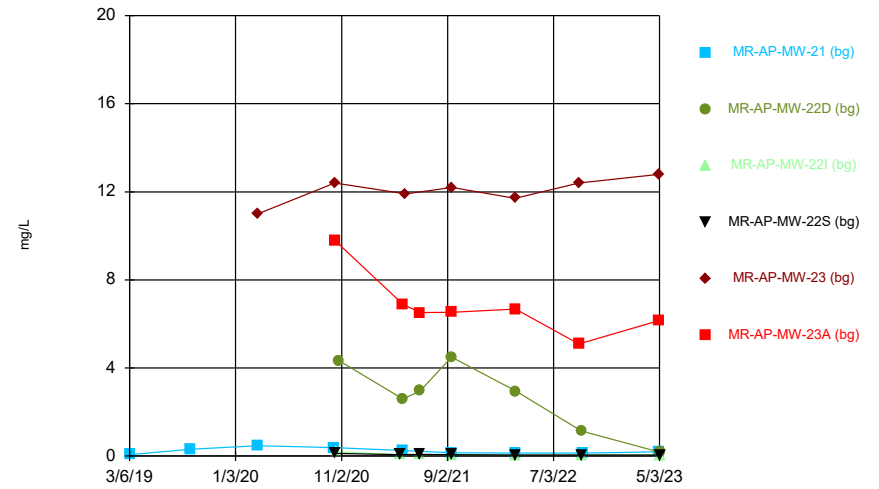
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Time Series



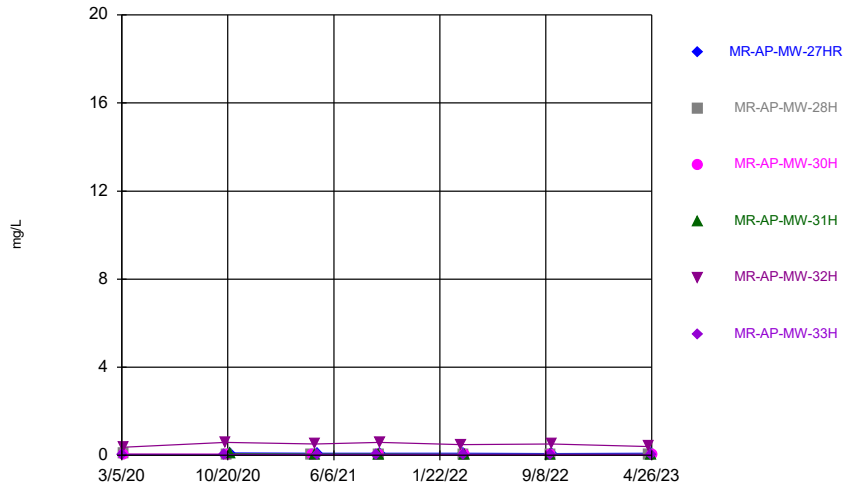
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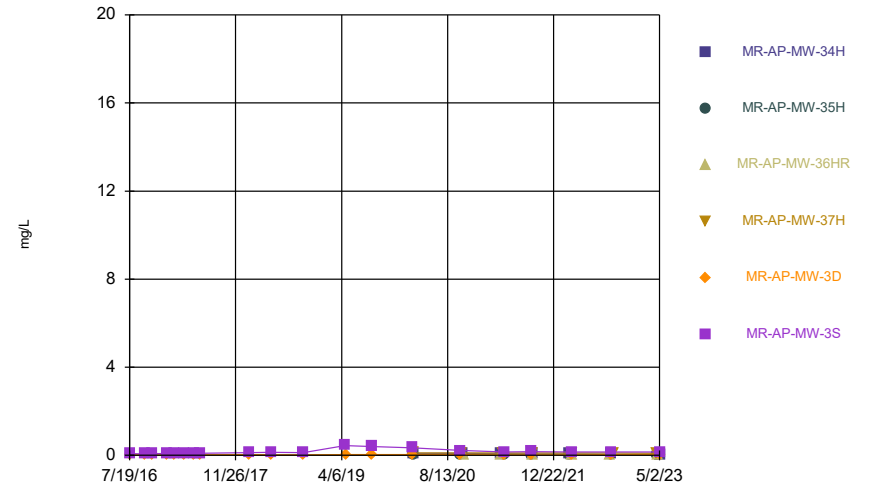
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Time Series



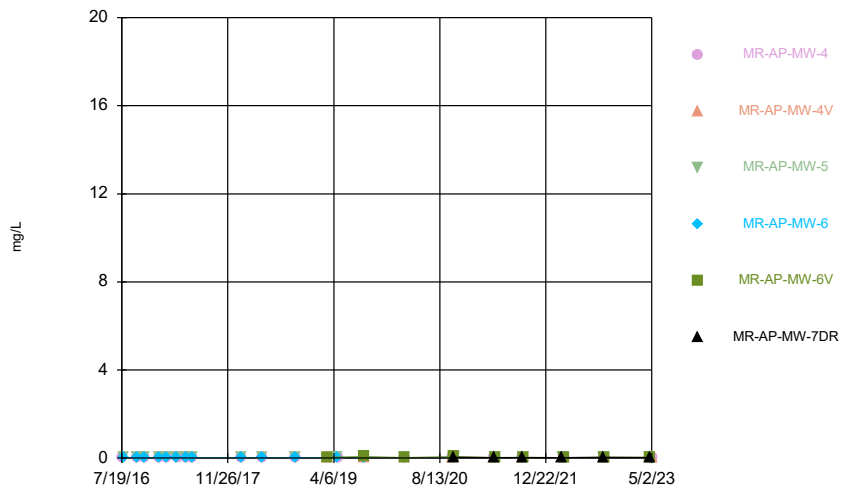
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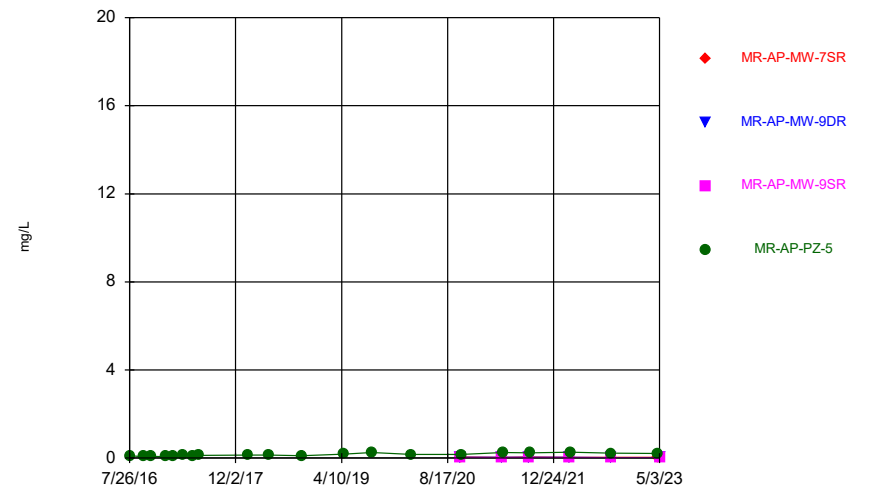
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Time Series



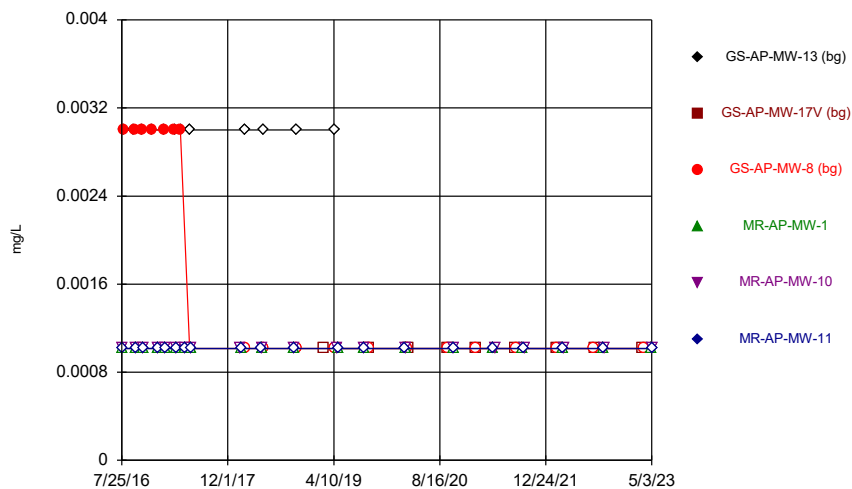
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Time Series



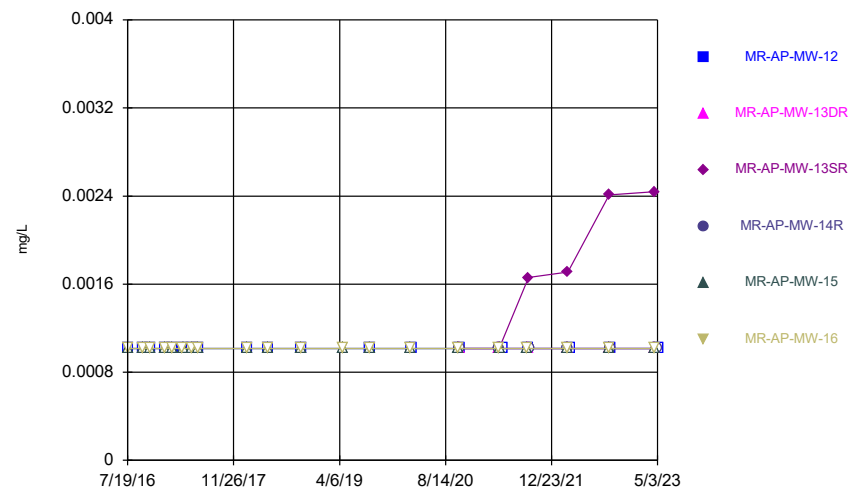
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Time Series



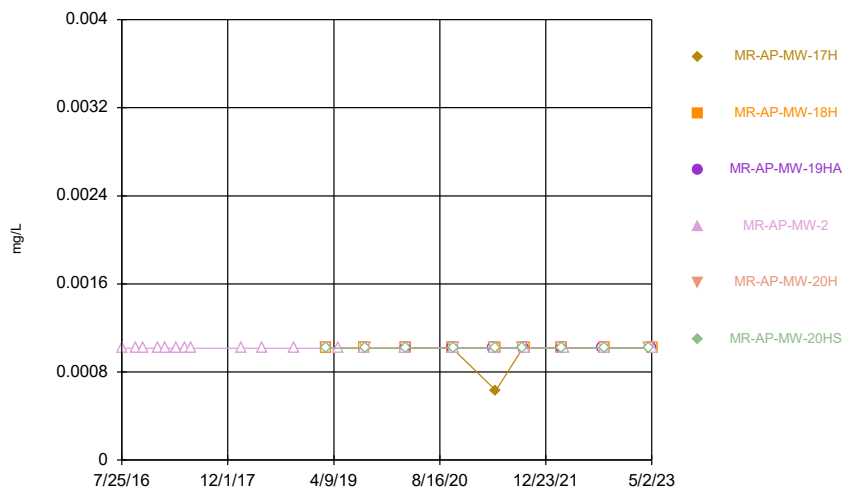
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Time Series



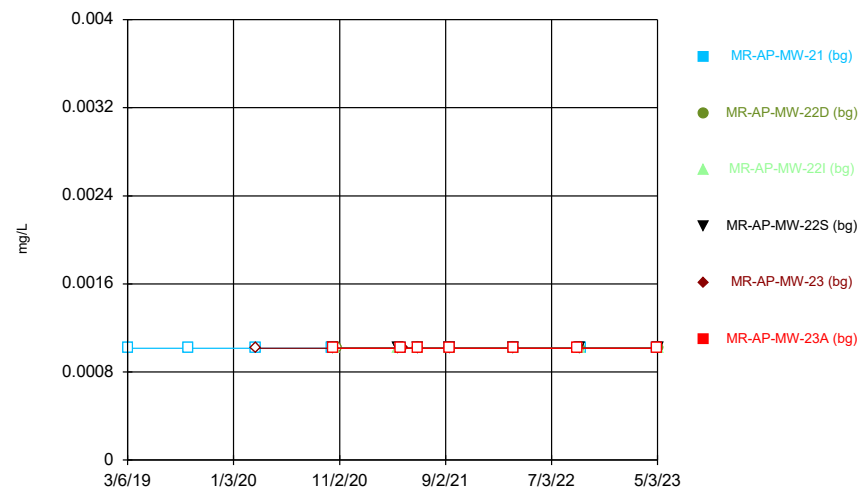
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Time Series



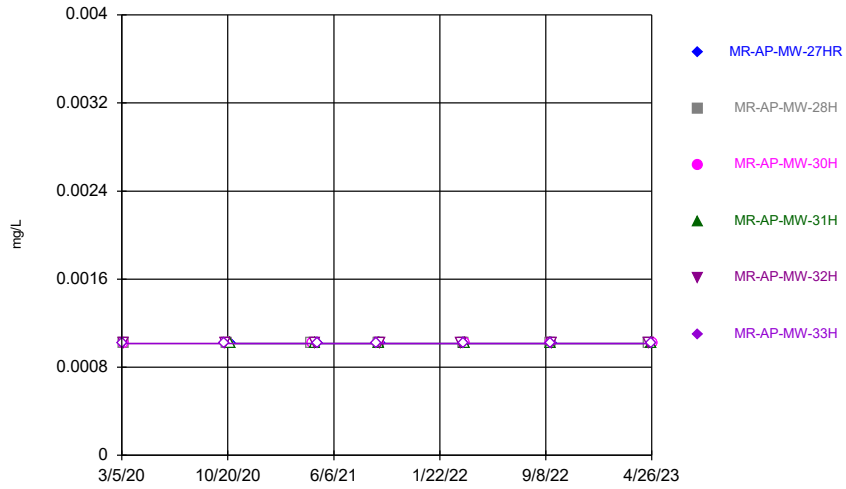
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Time Series



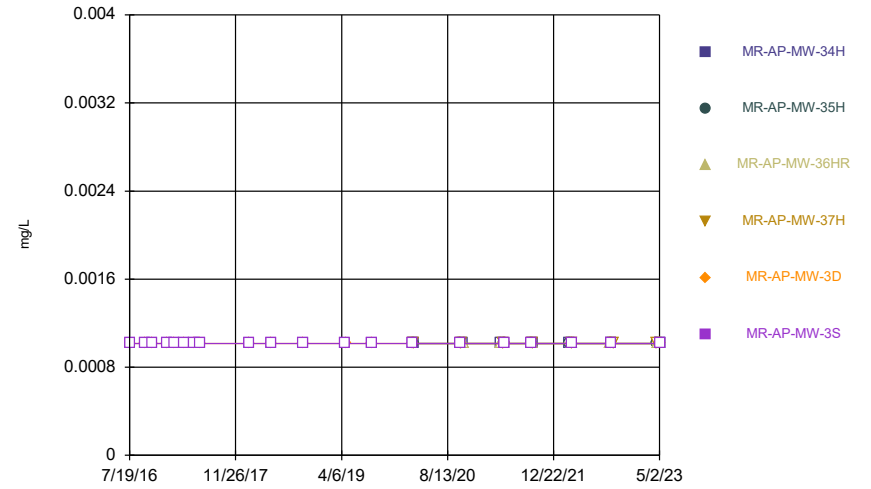
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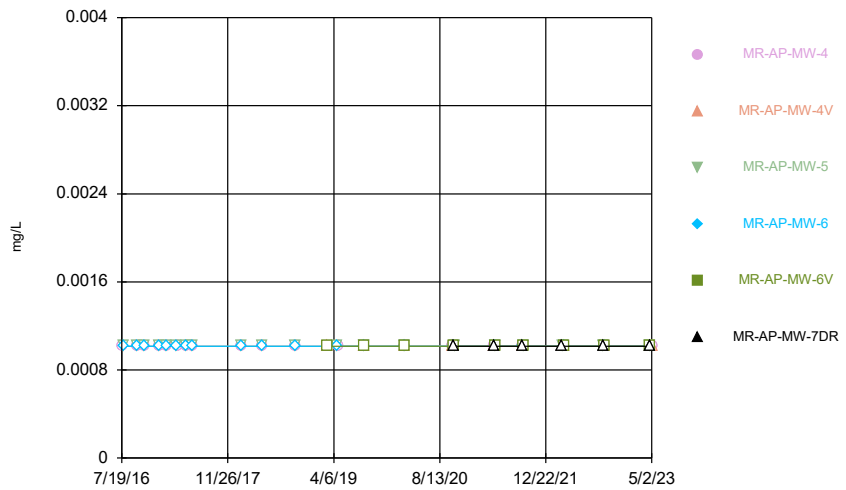
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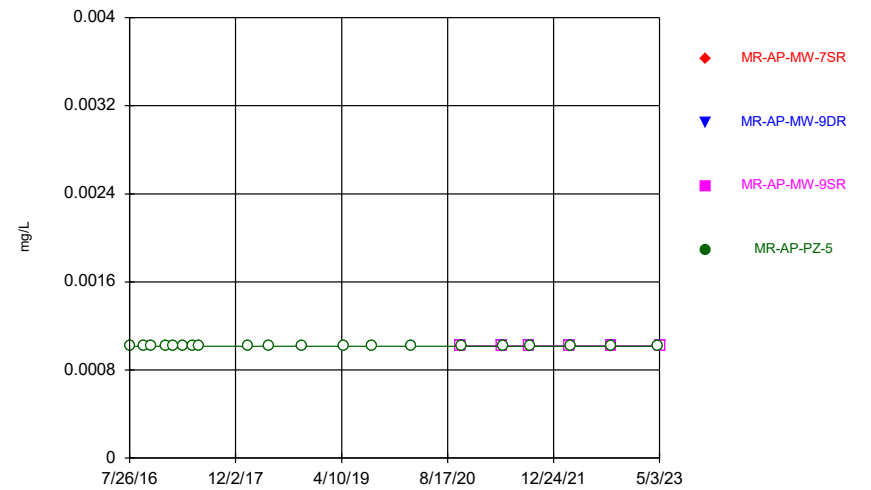
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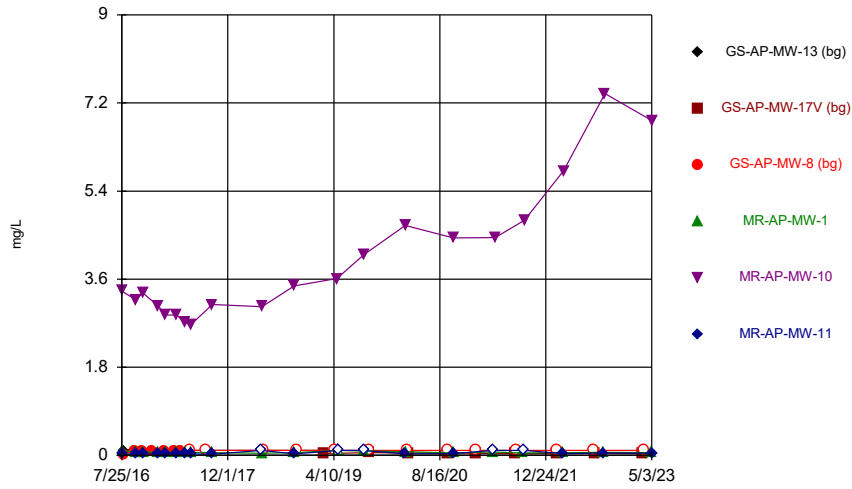
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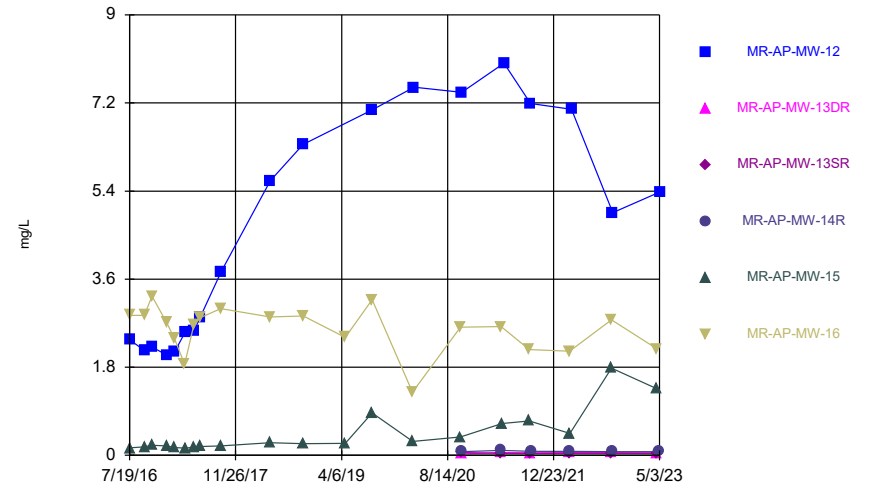
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Time Series



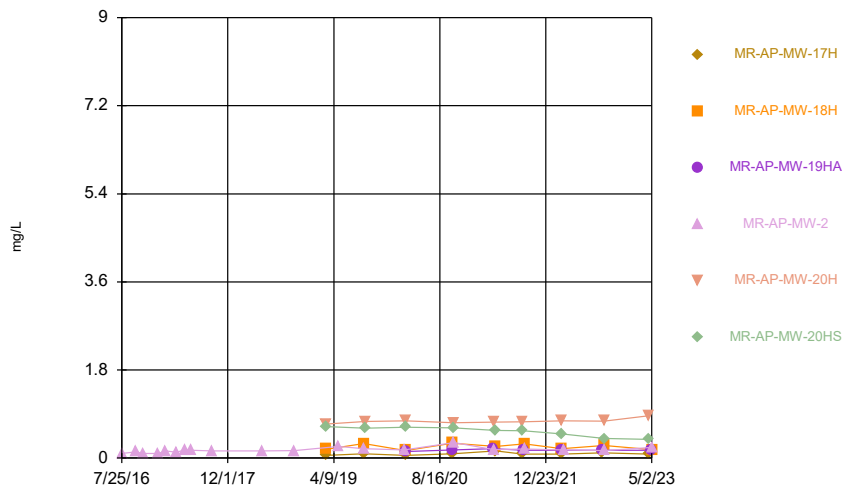
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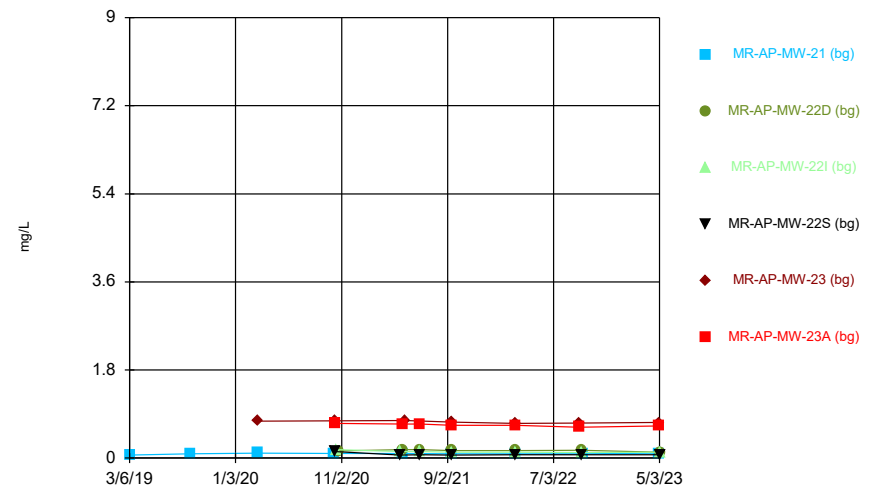
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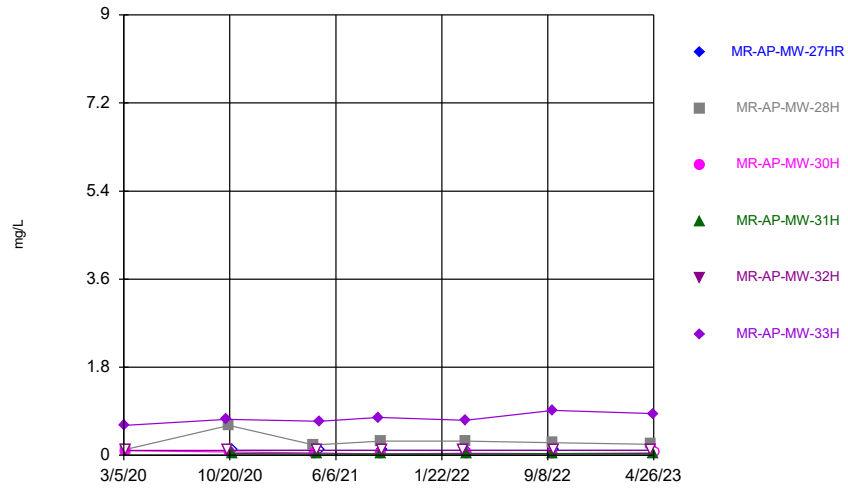
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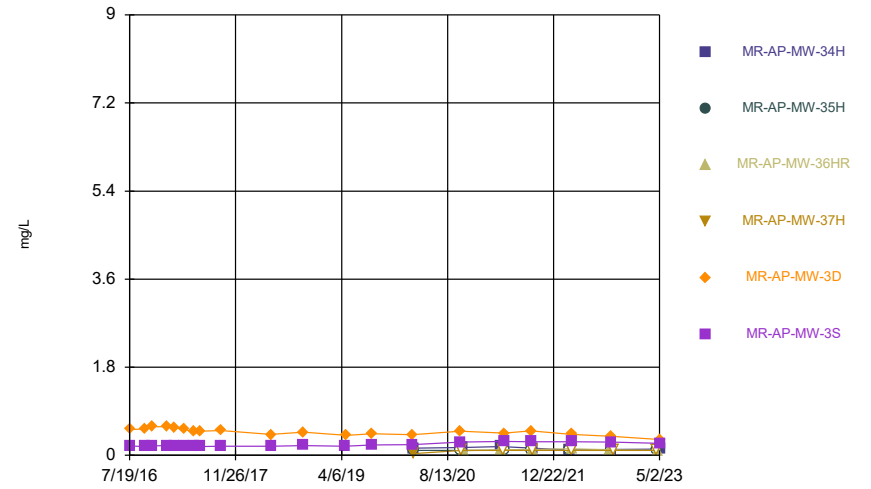
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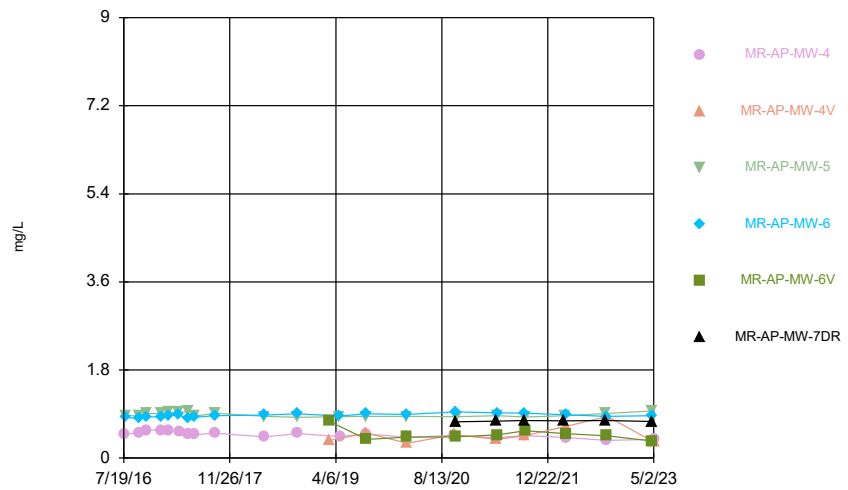
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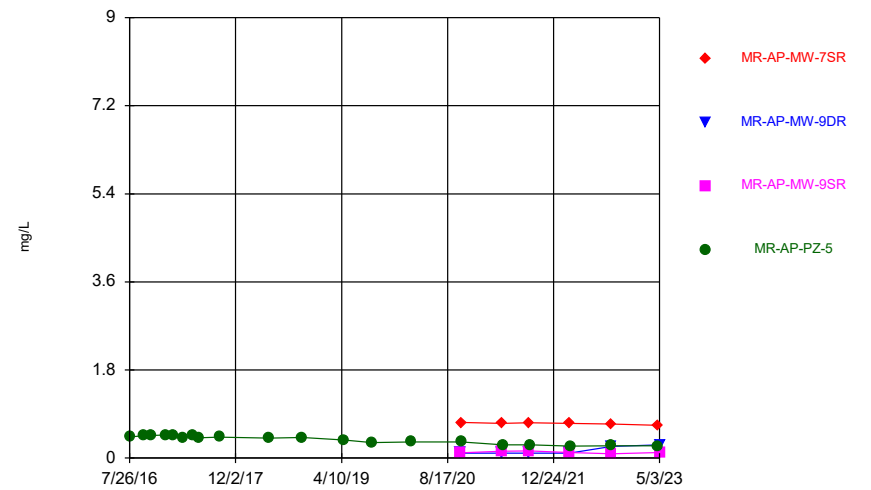
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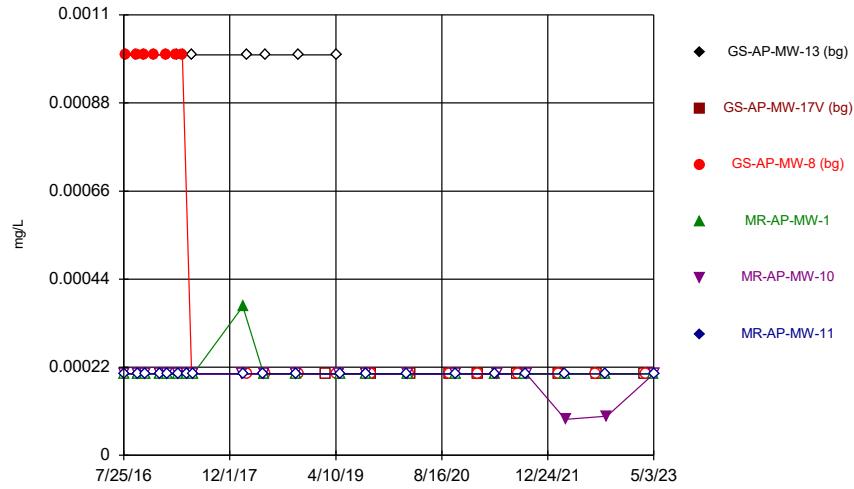
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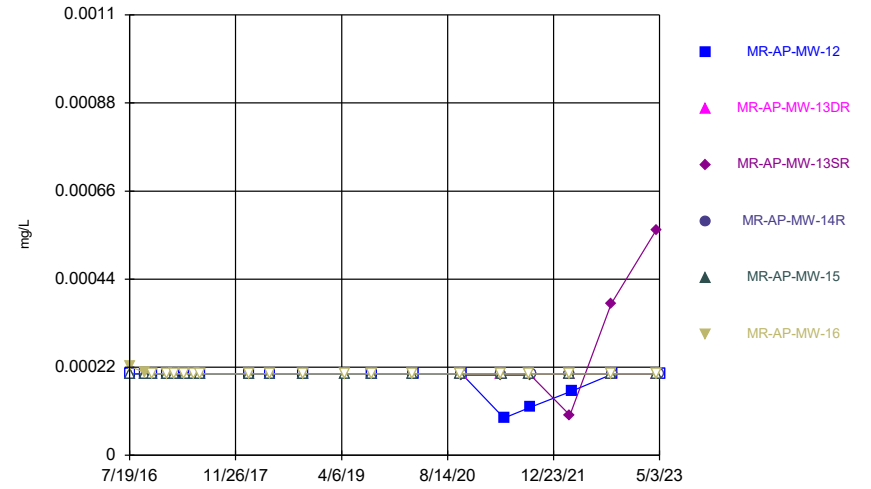
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Time Series



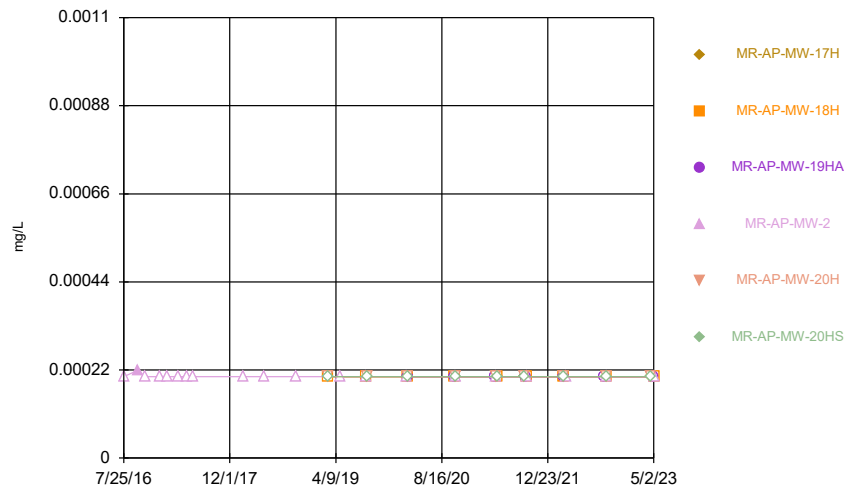
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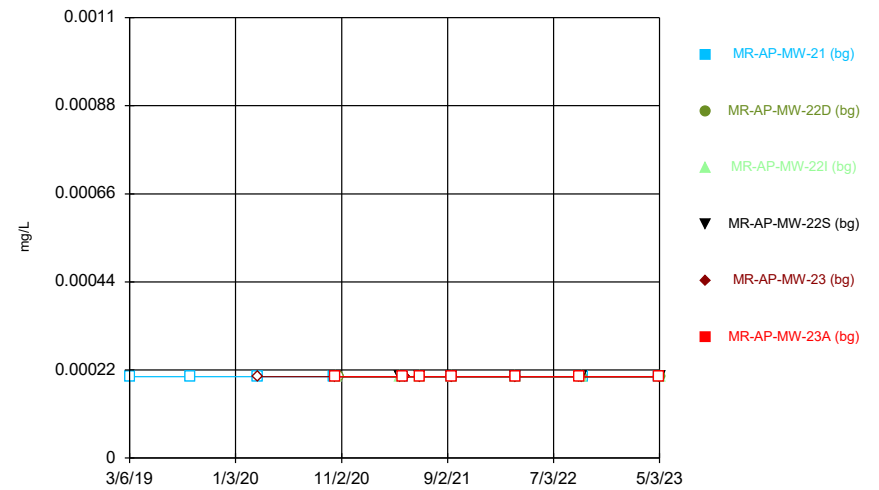
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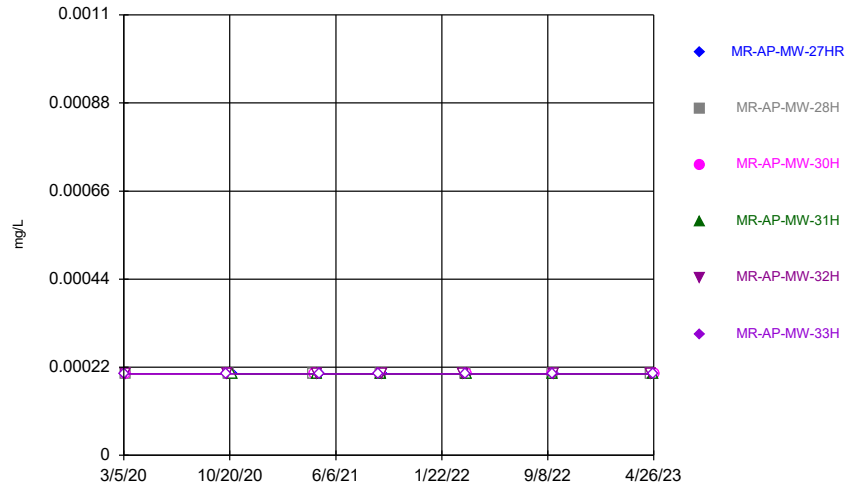
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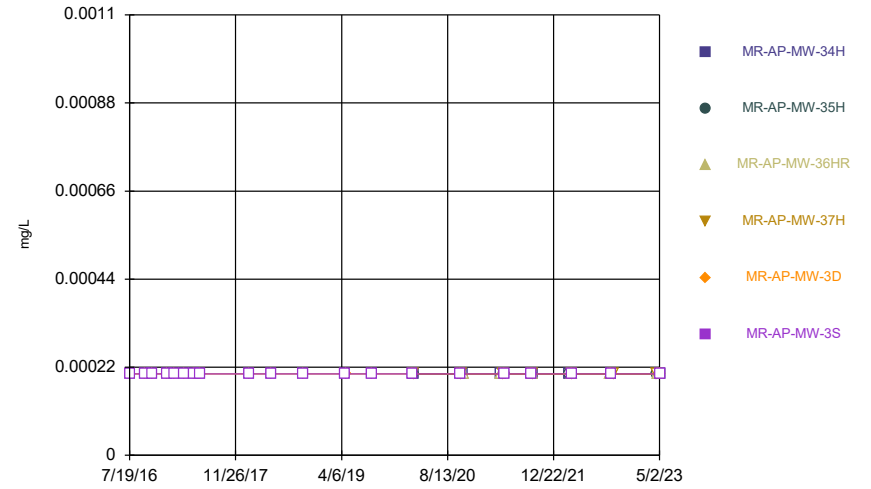
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Time Series



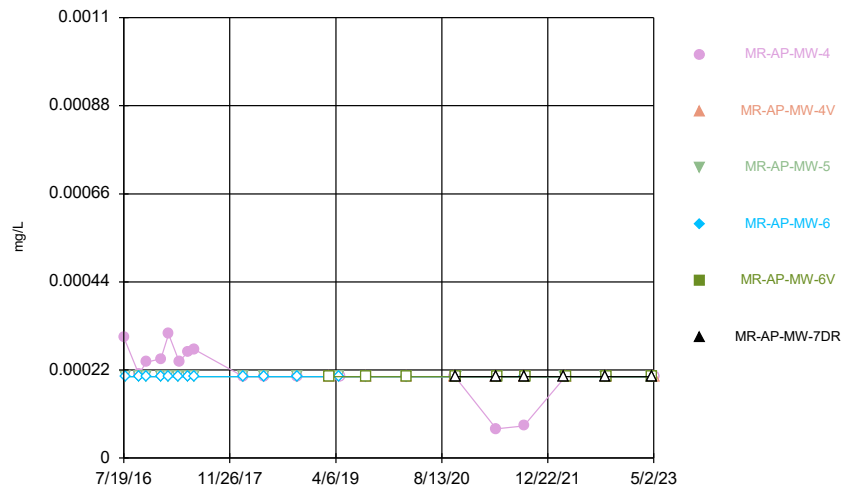
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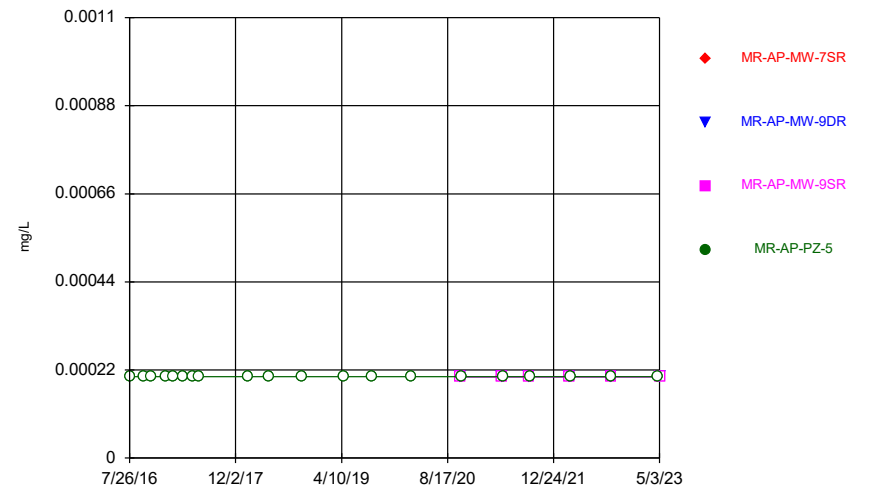
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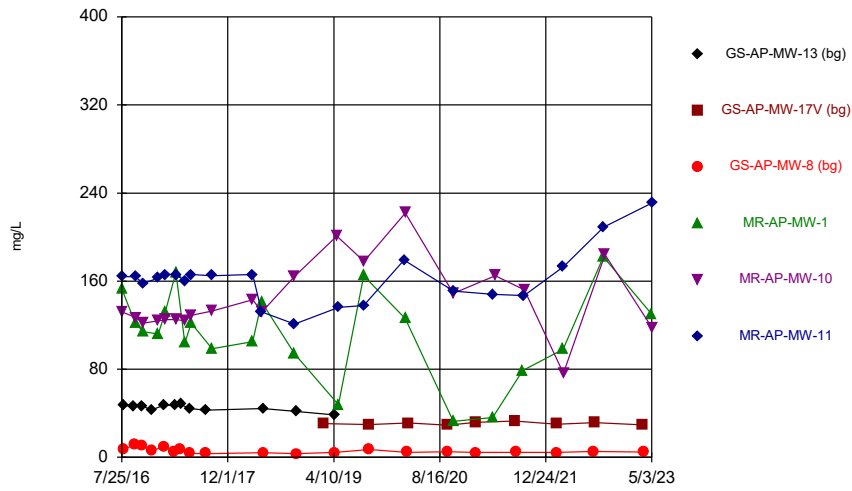
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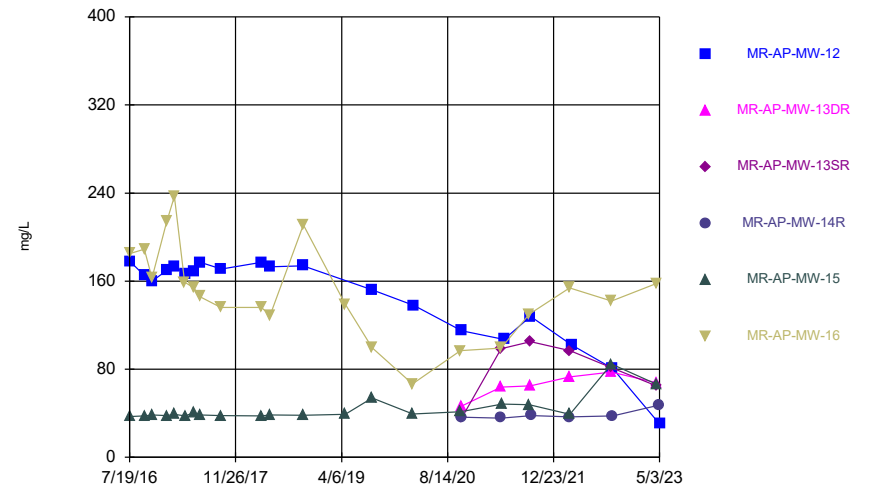
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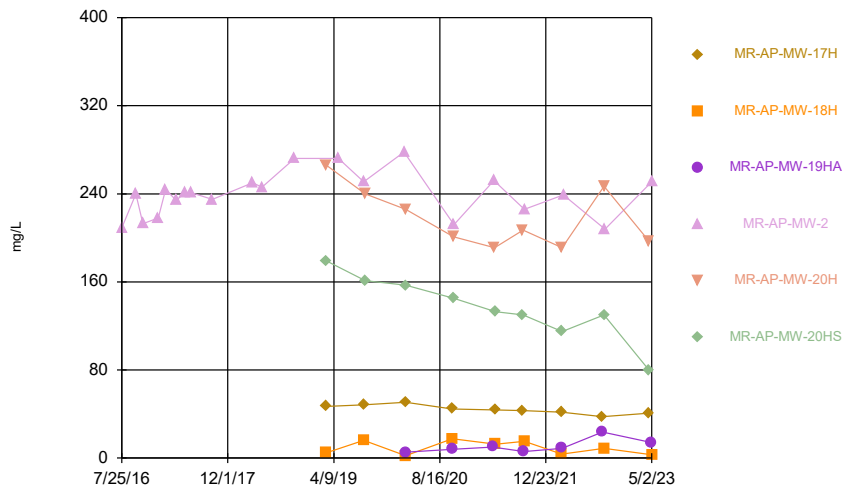
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Time Series



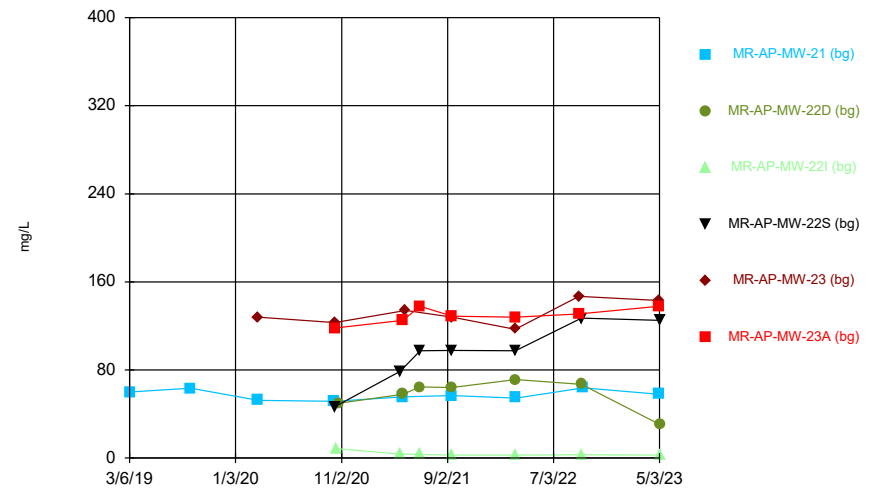
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Time Series



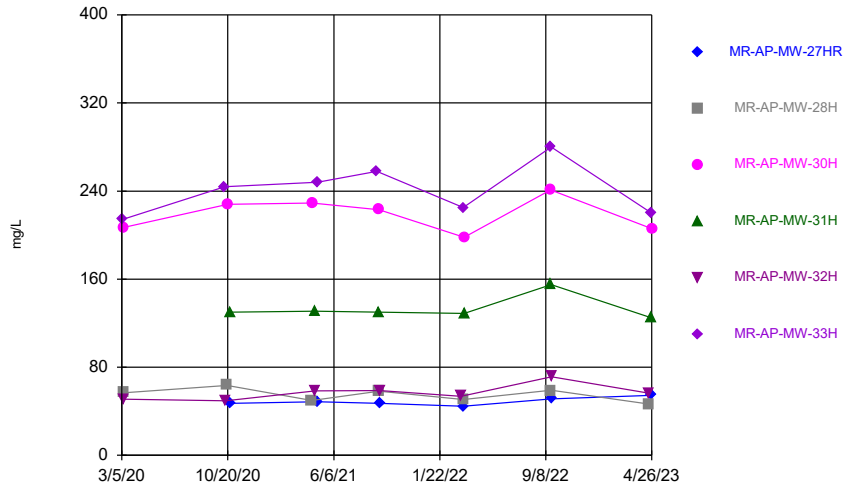
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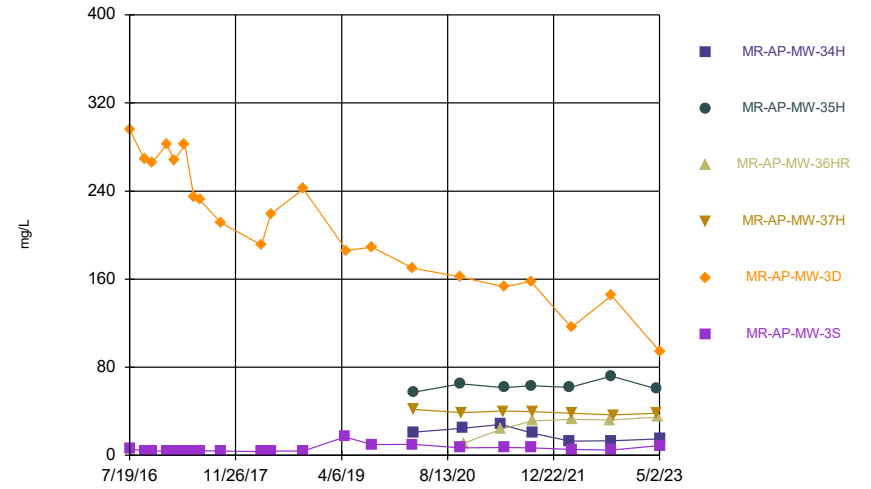
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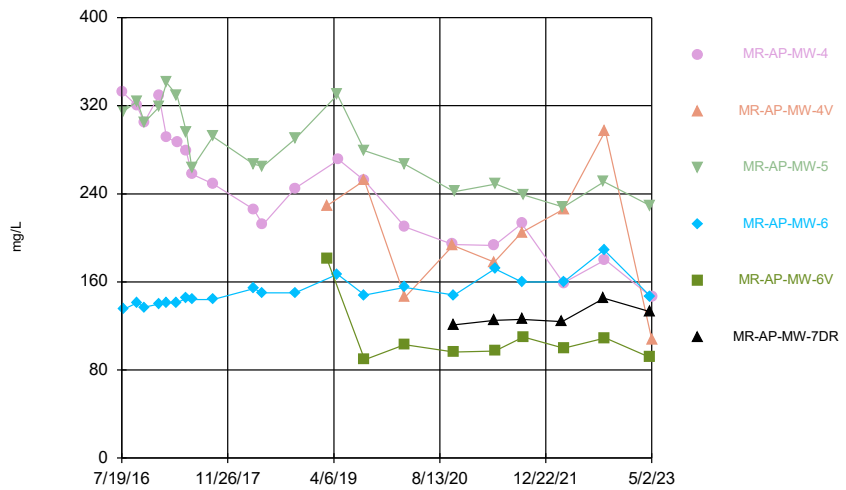
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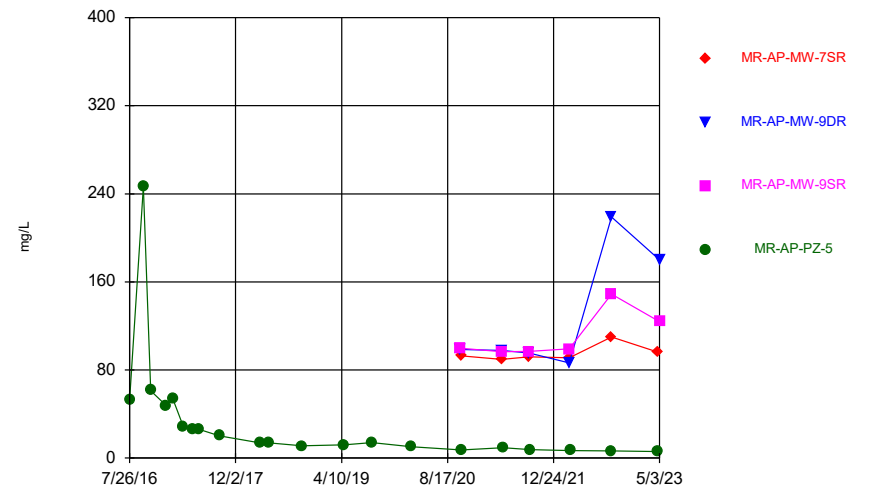
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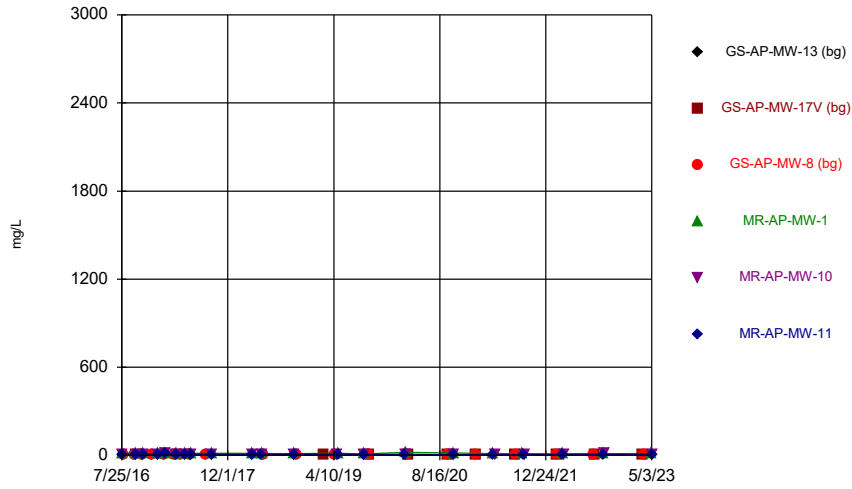
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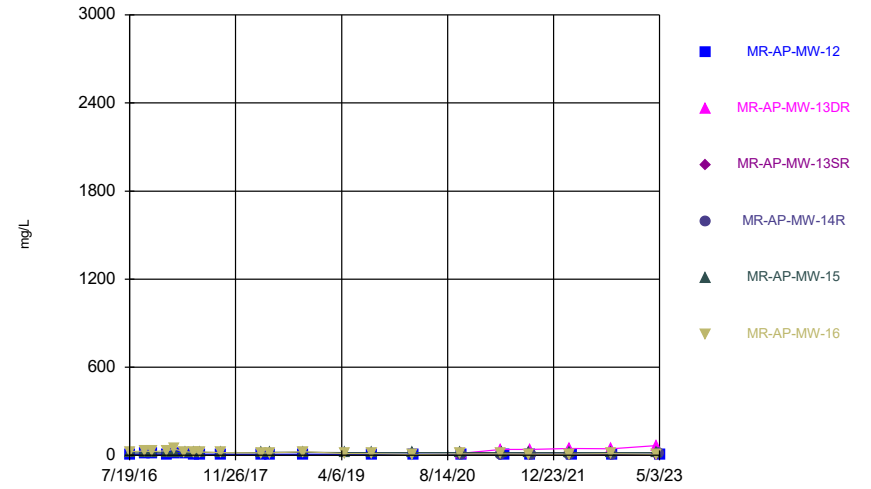
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Time Series



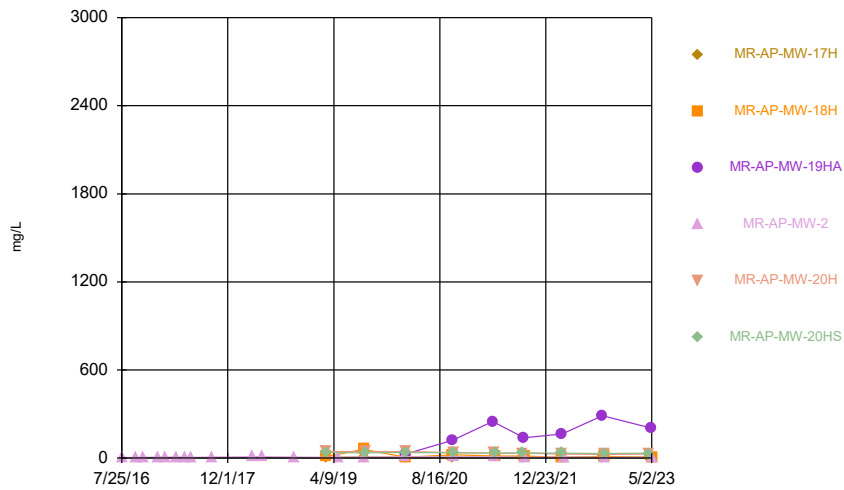
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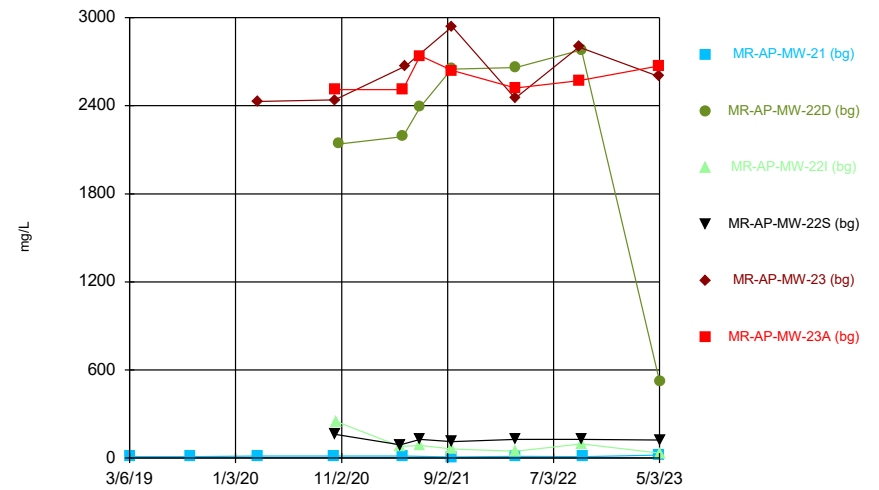
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Time Series



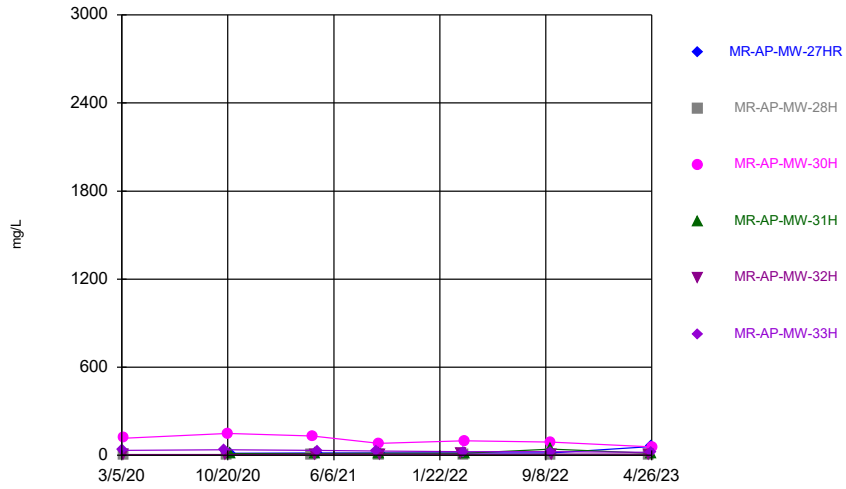
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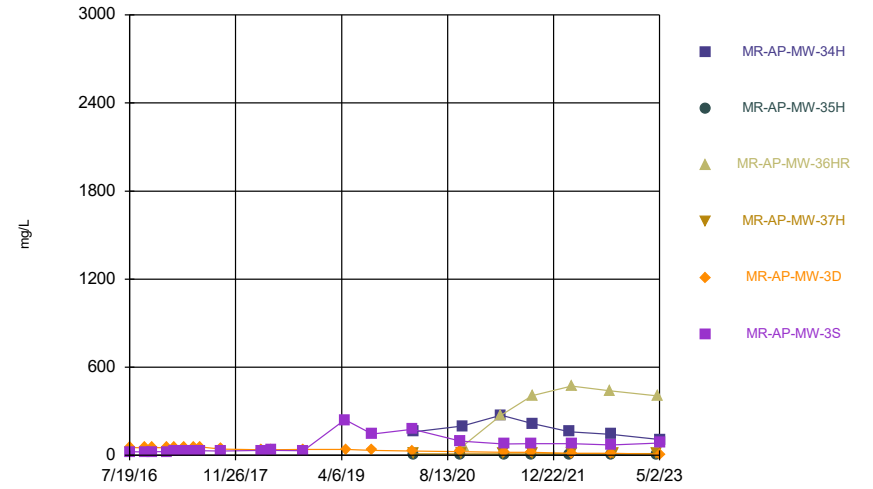
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Time Series



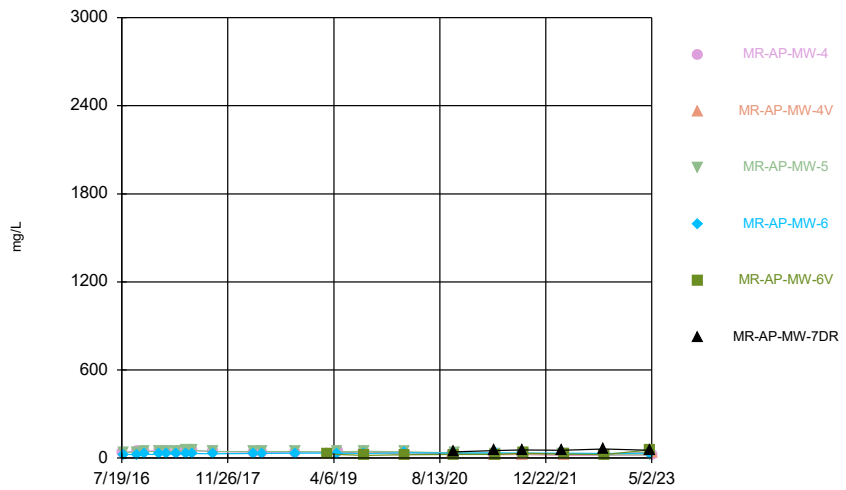
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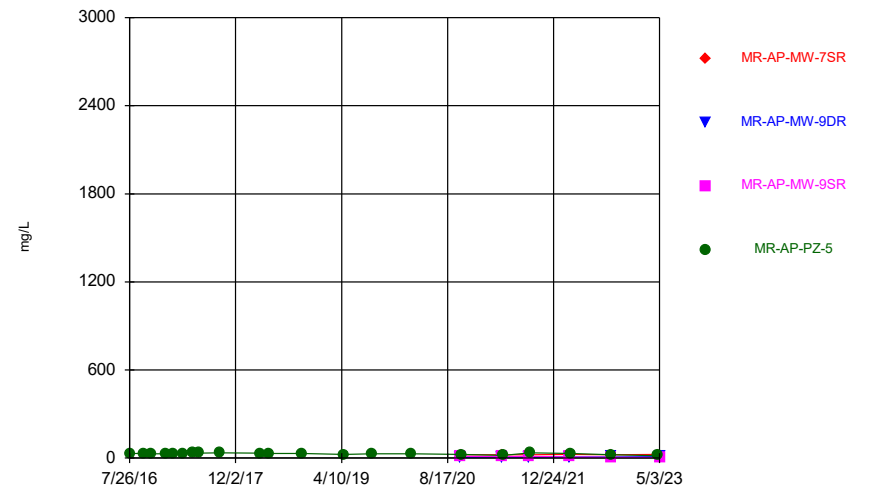
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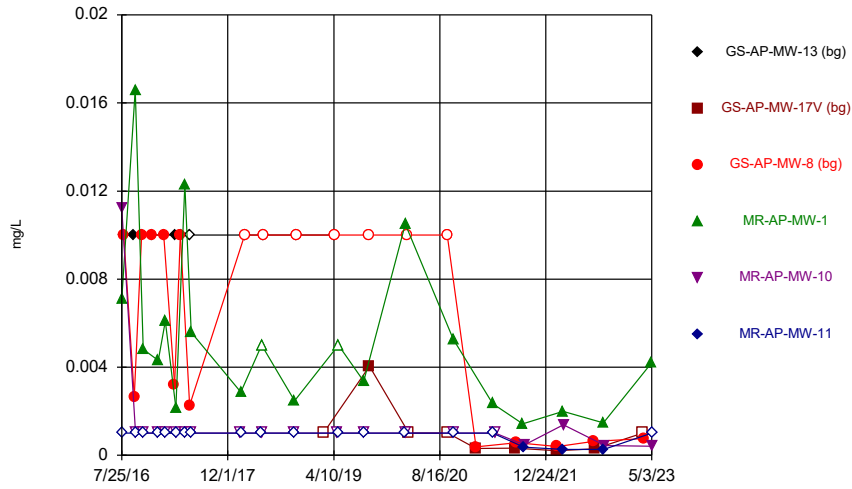
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Time Series



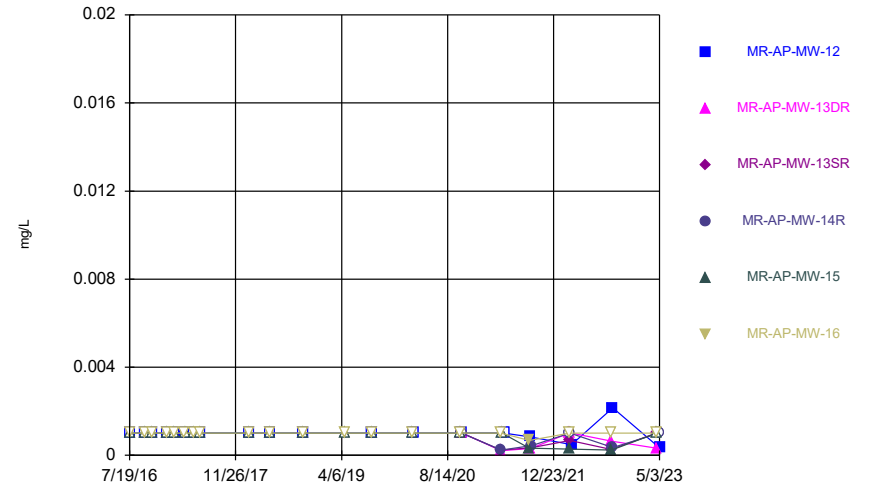
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Time Series



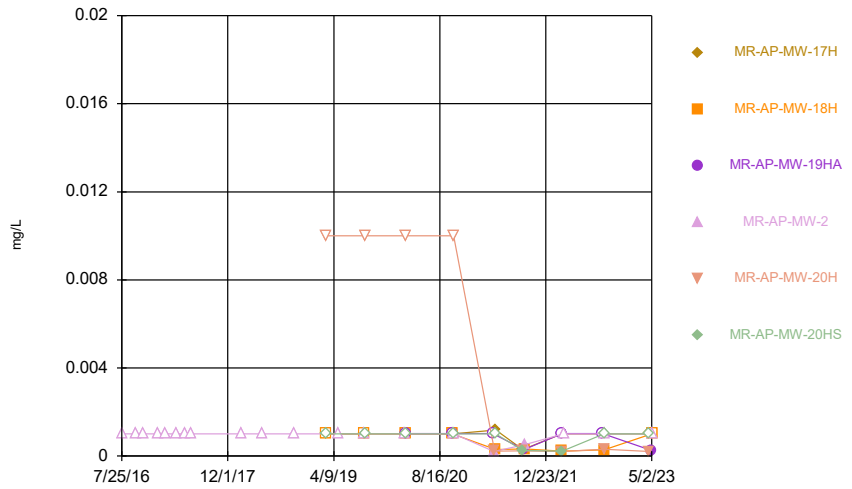
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Time Series



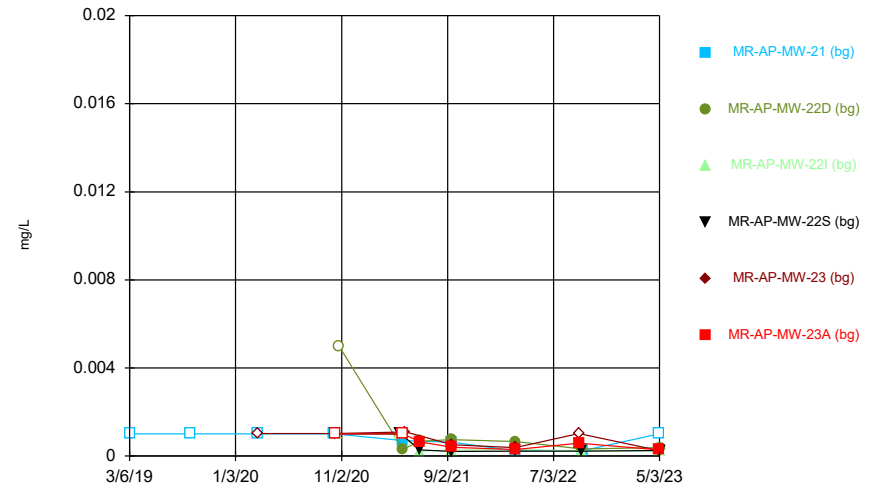
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Time Series



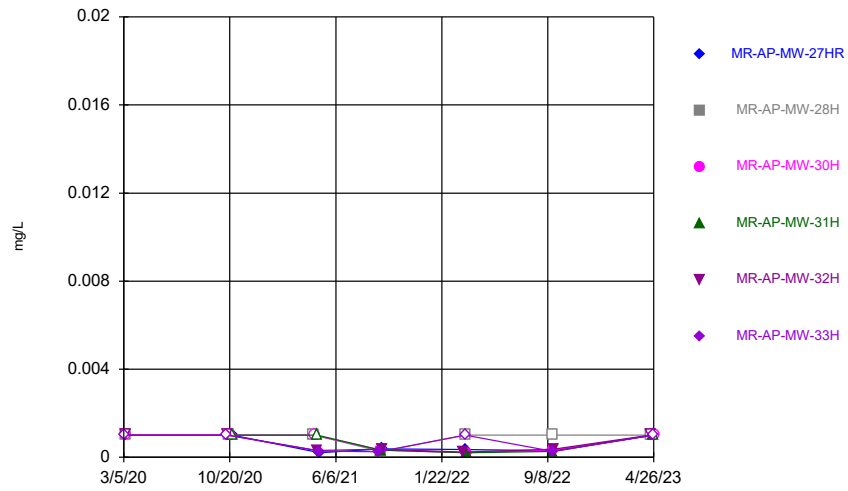
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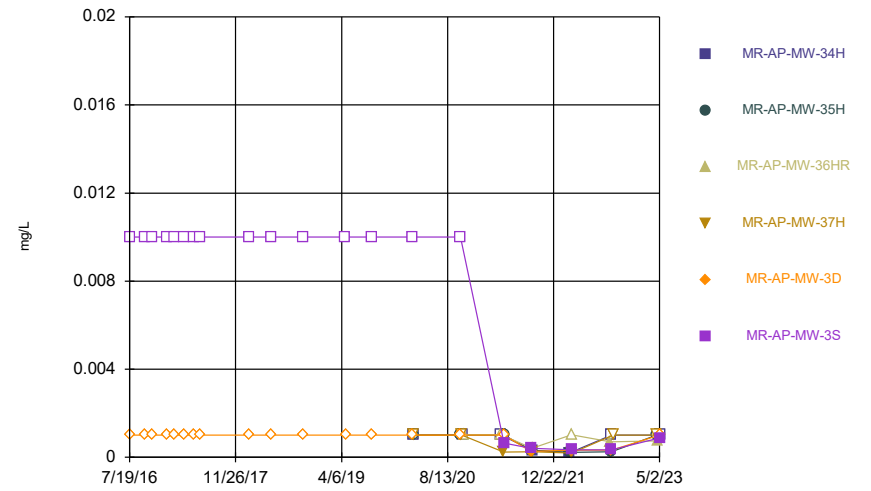
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Time Series



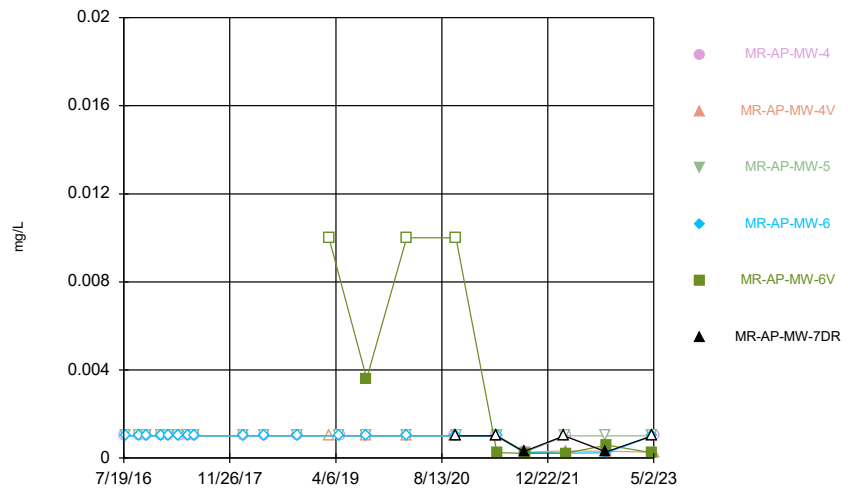
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



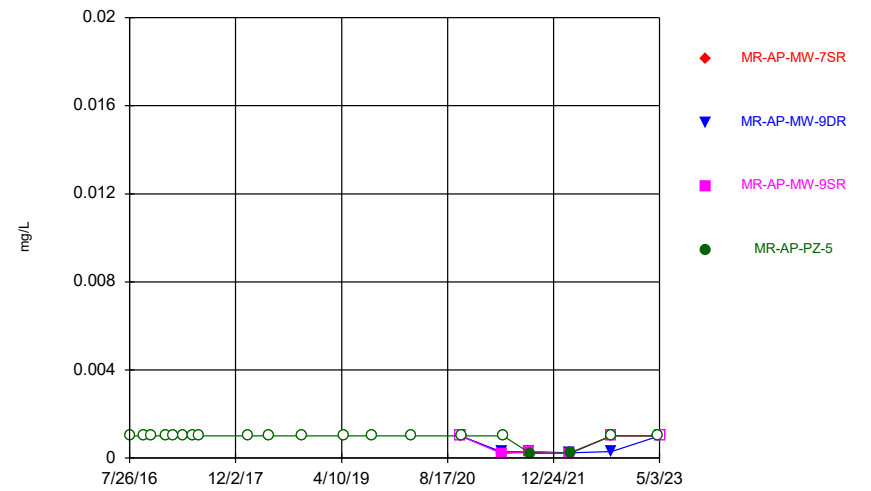
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



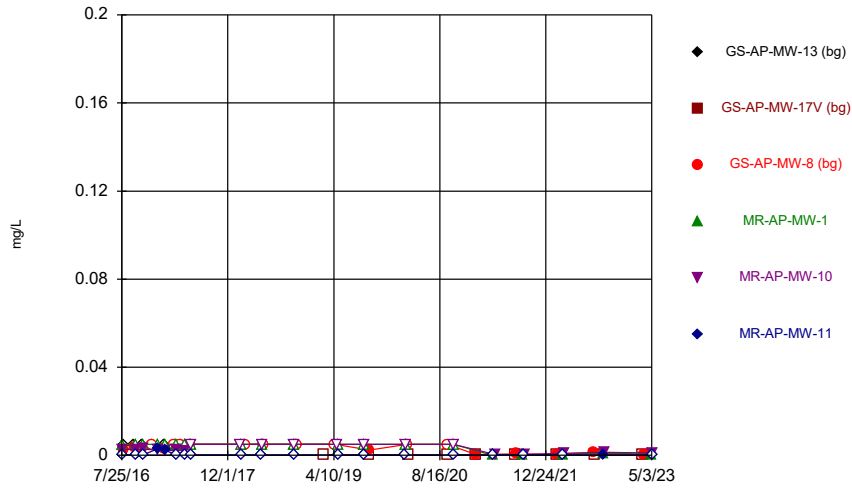
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Time Series



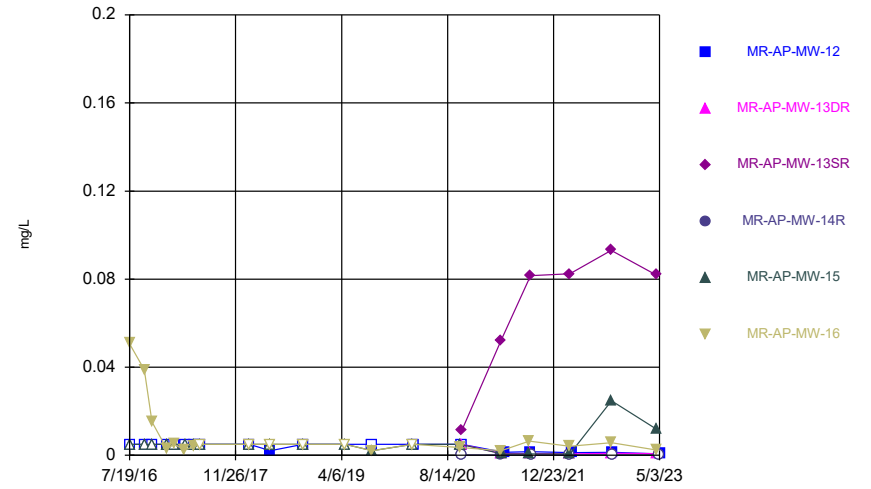
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



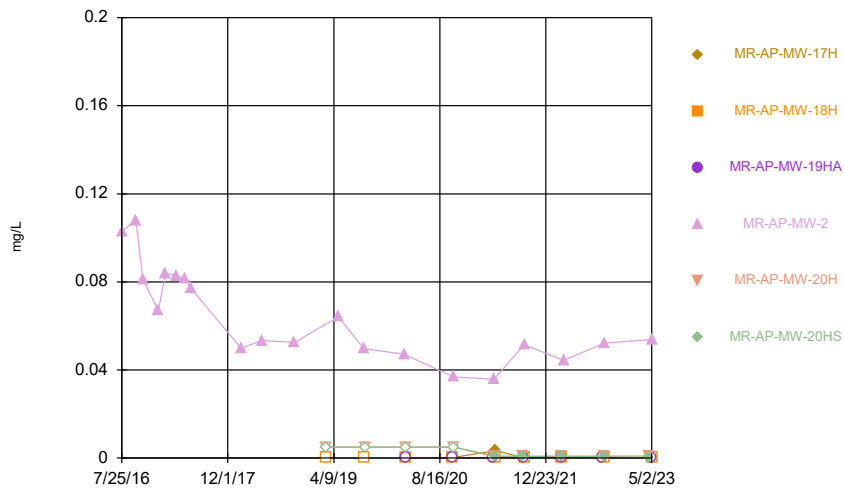
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



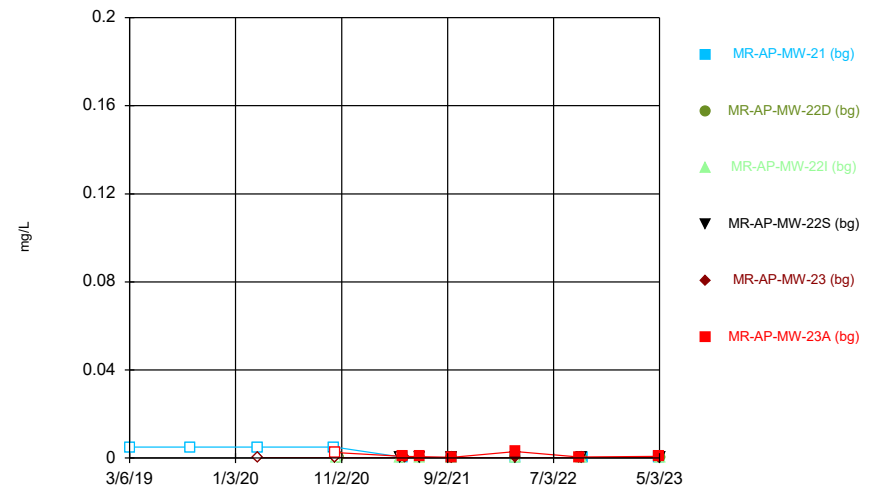
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



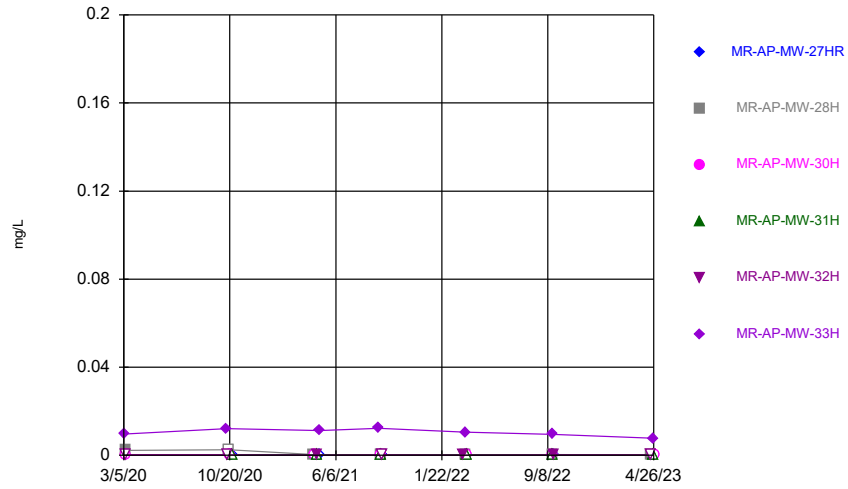
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Time Series



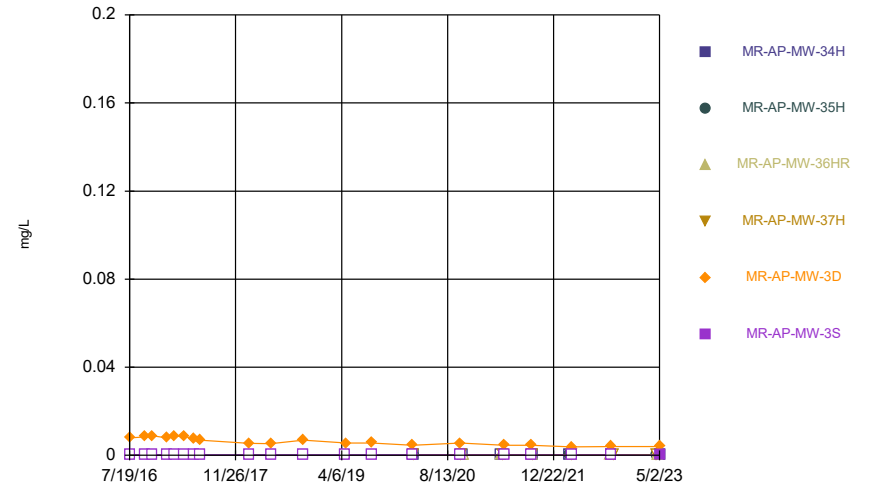
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Time Series



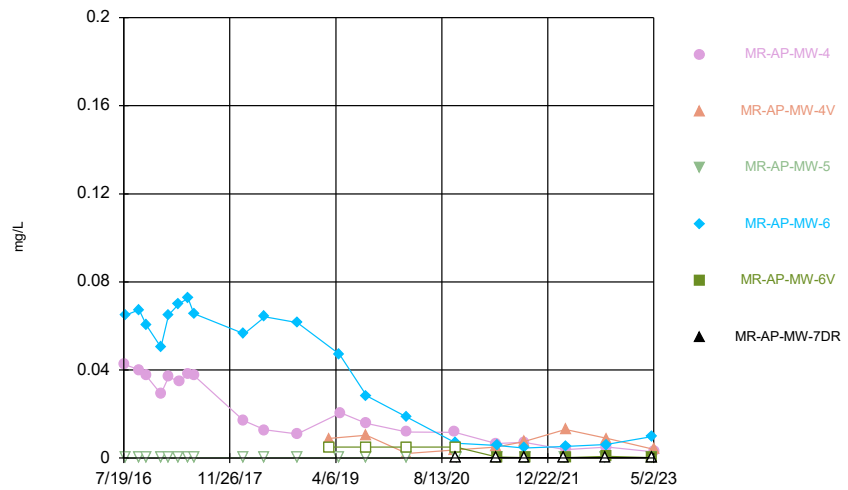
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Time Series



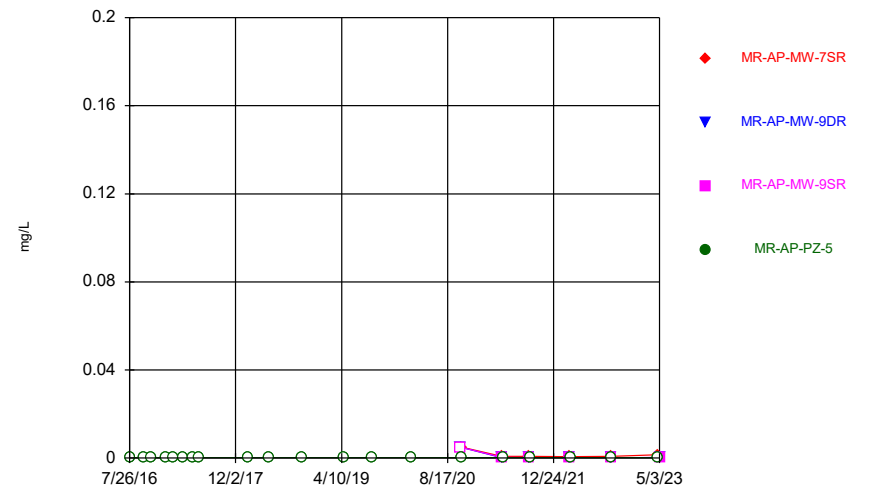
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Time Series



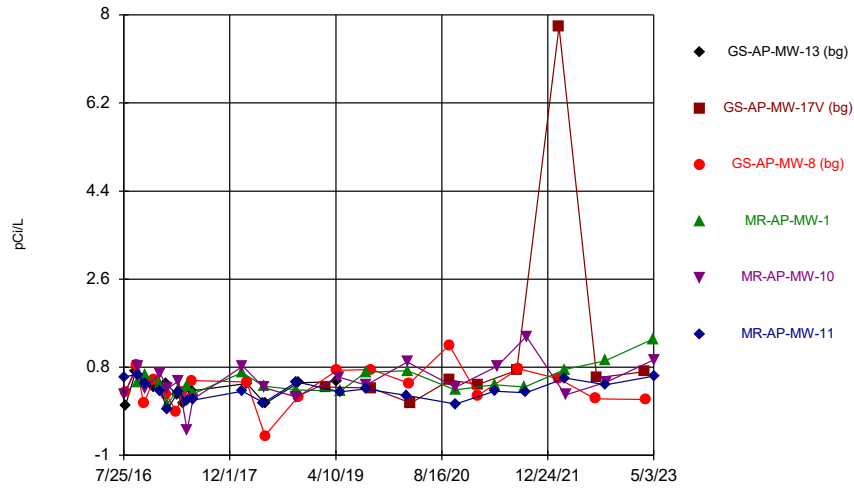
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Time Series



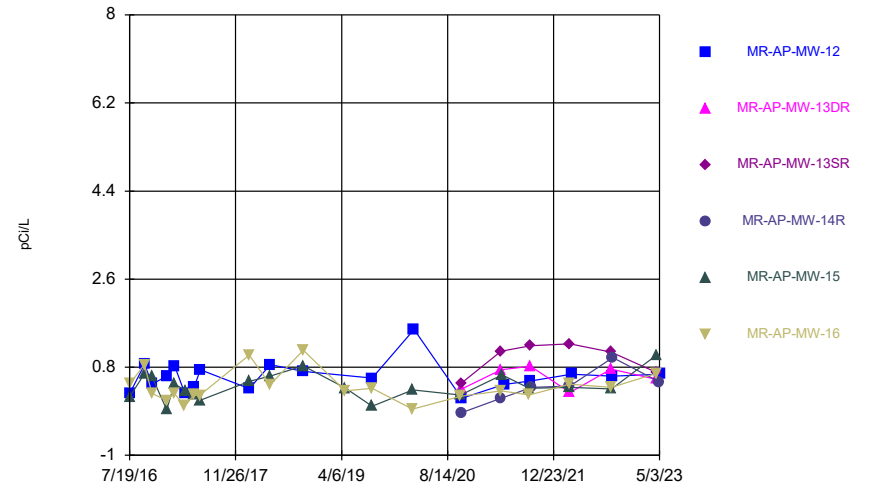
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Time Series



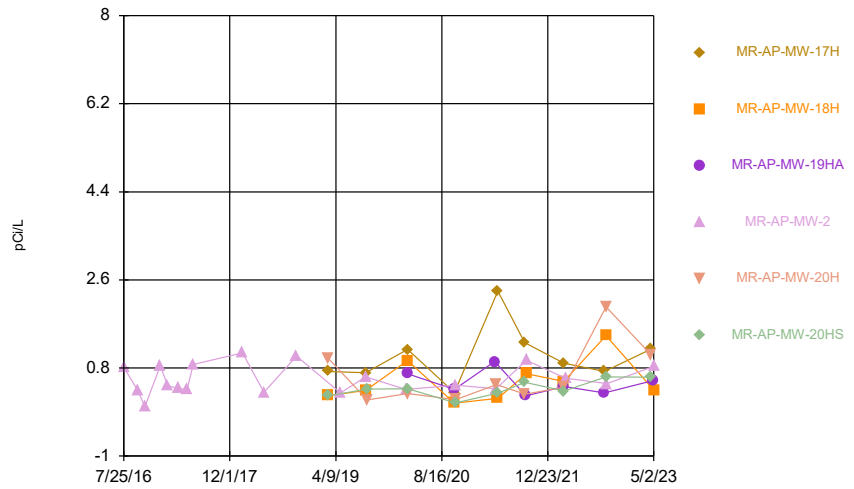
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



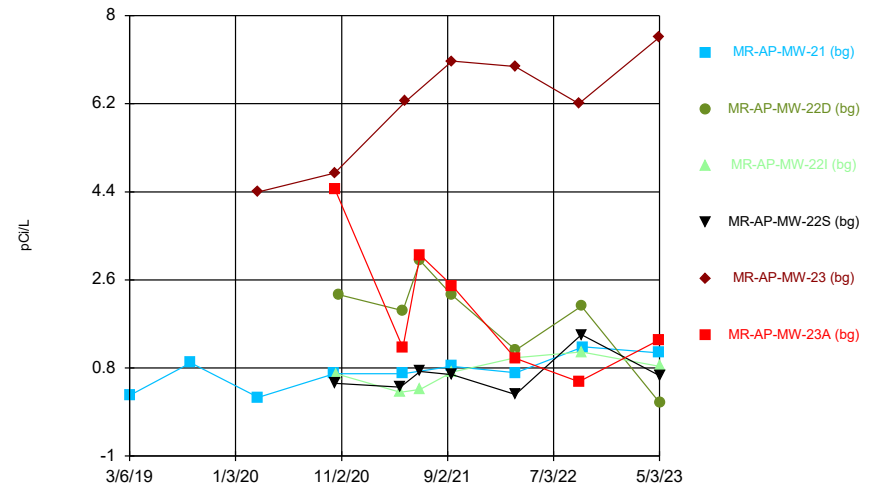
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



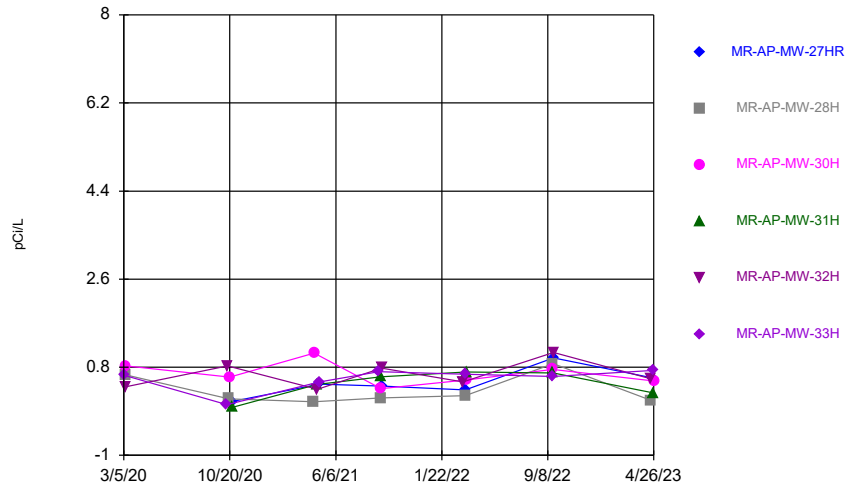
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Time Series



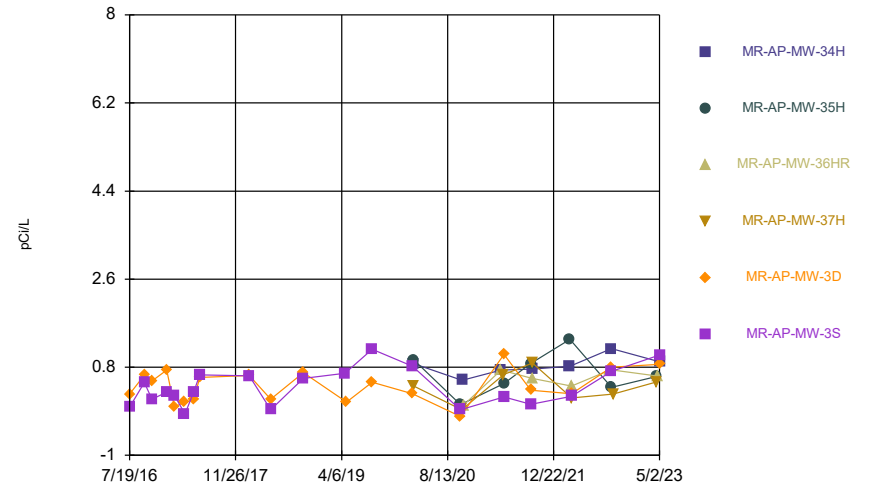
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Time Series



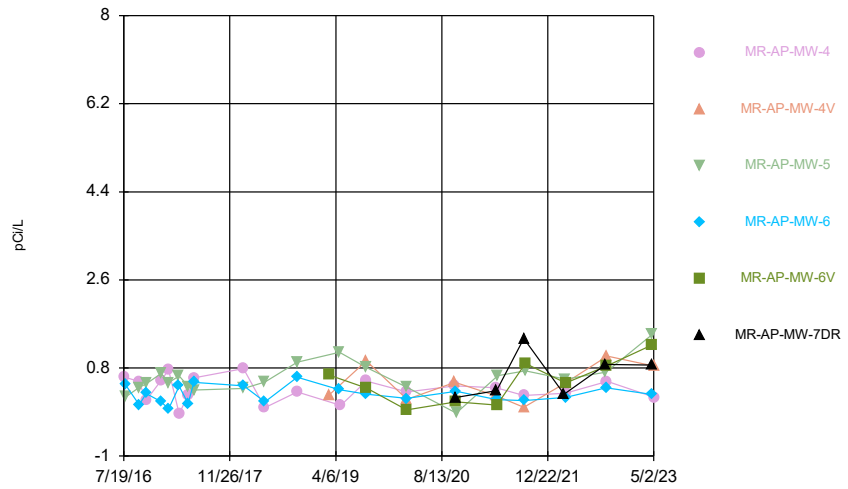
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Time Series



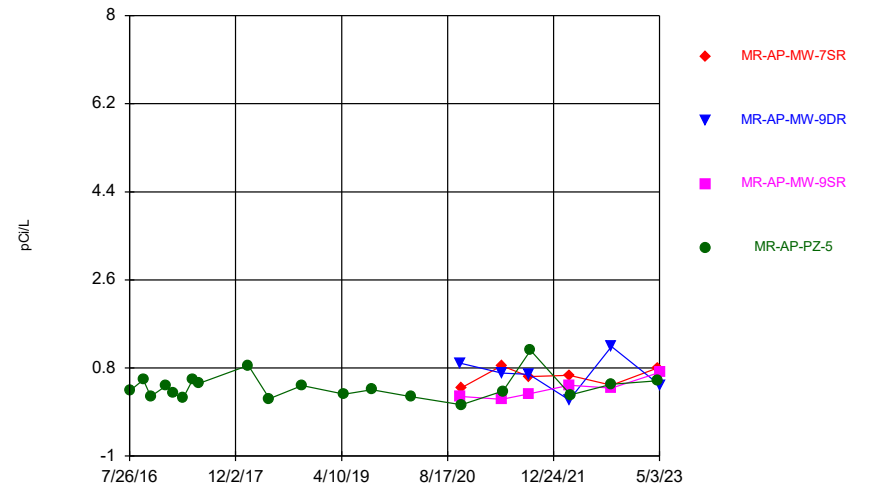
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Time Series



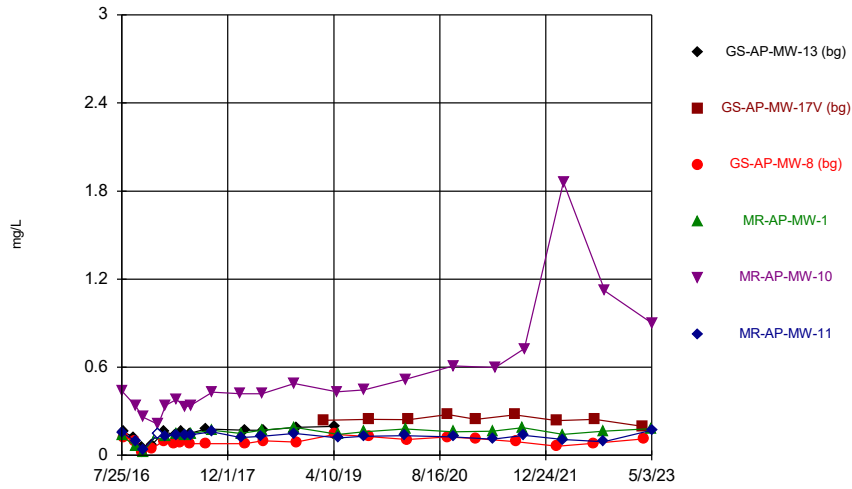
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Time Series



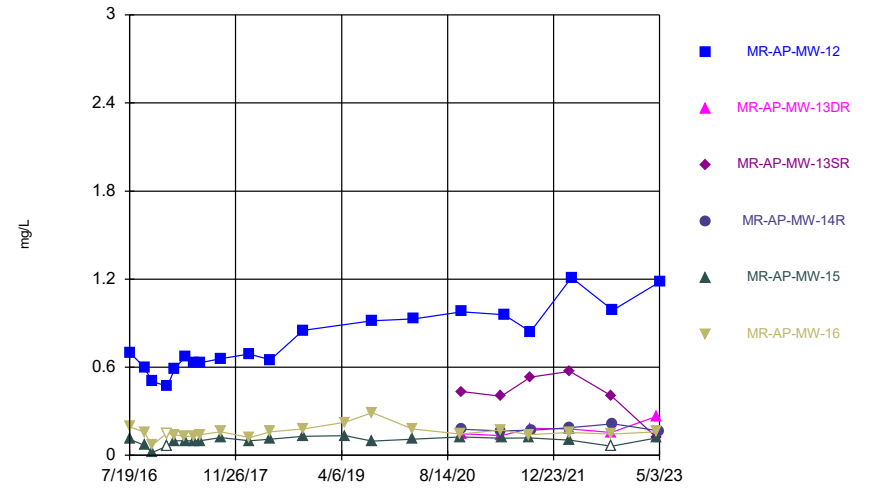
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Time Series



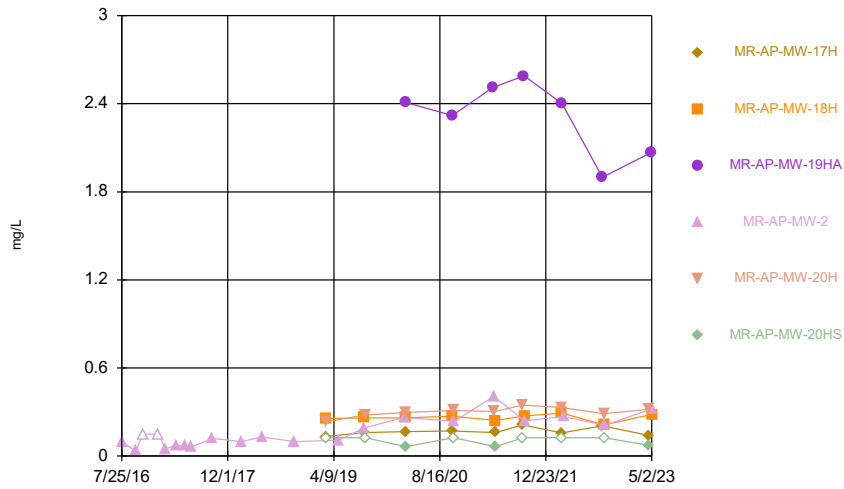
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



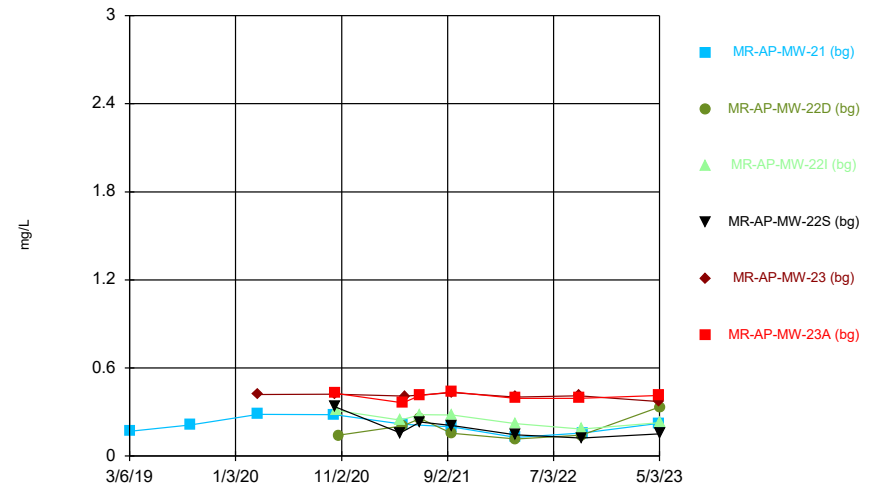
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Time Series



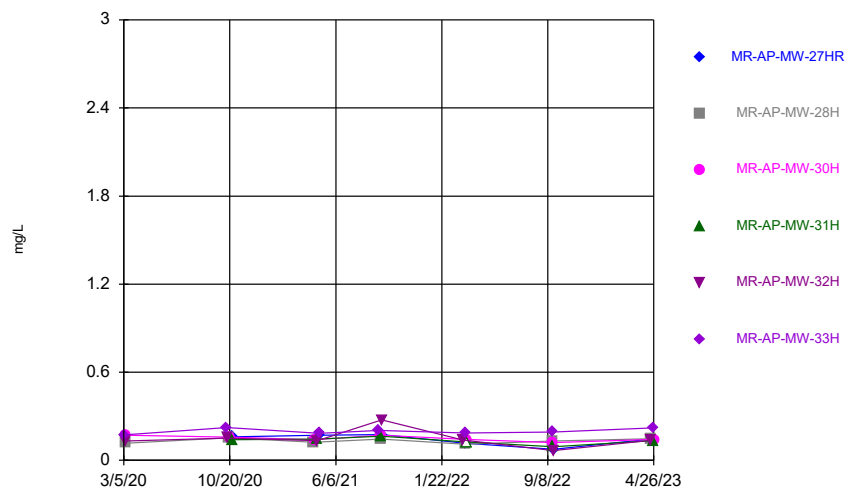
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Time Series



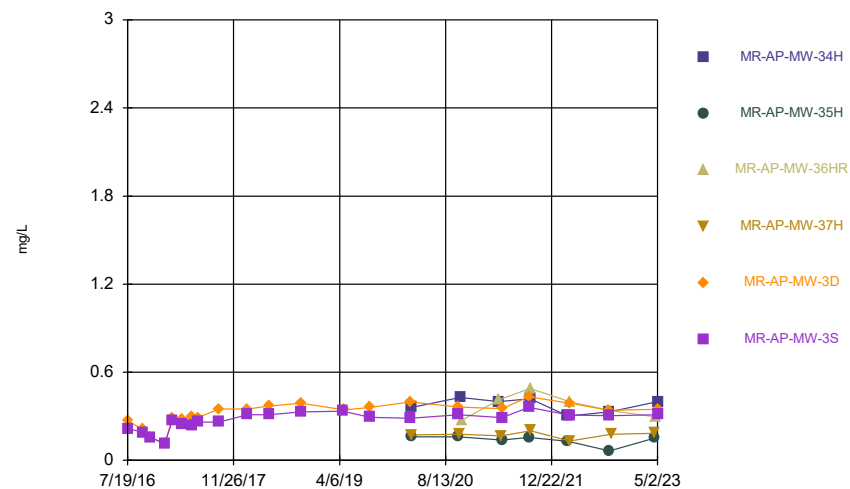
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Time Series



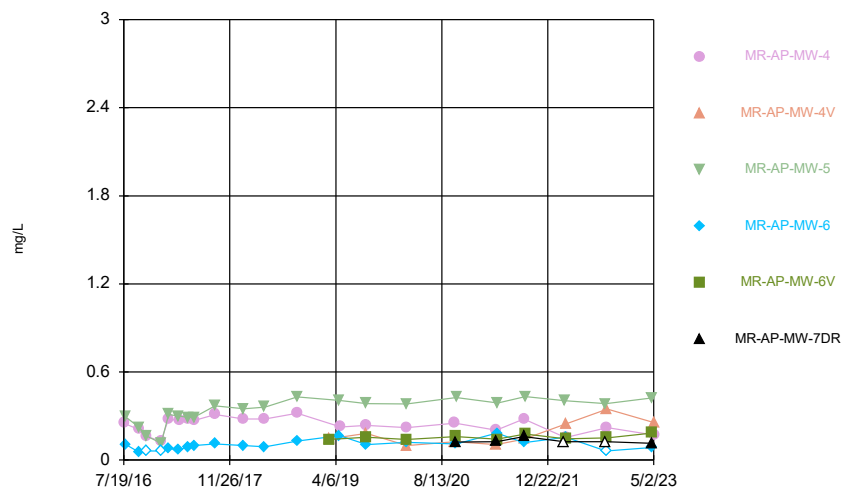
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Time Series



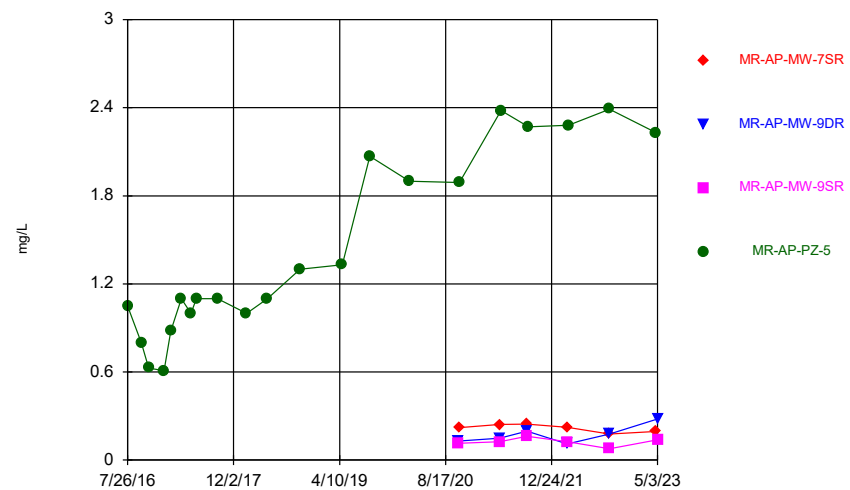
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Time Series



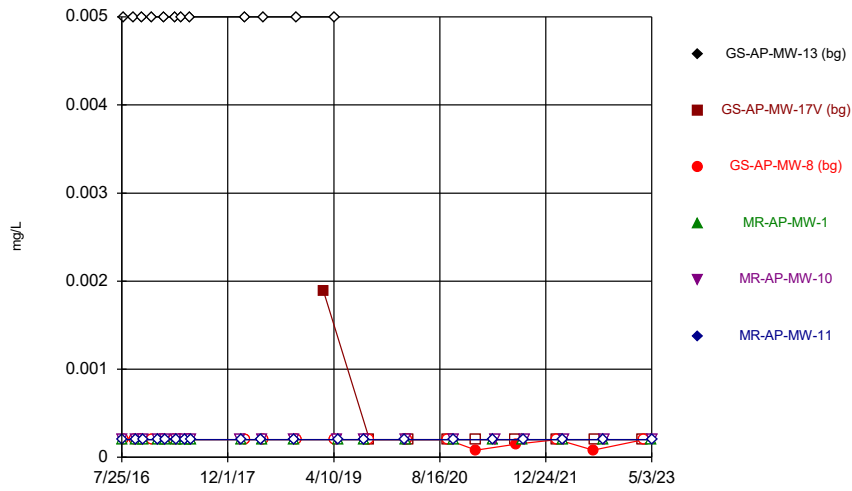
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Time Series



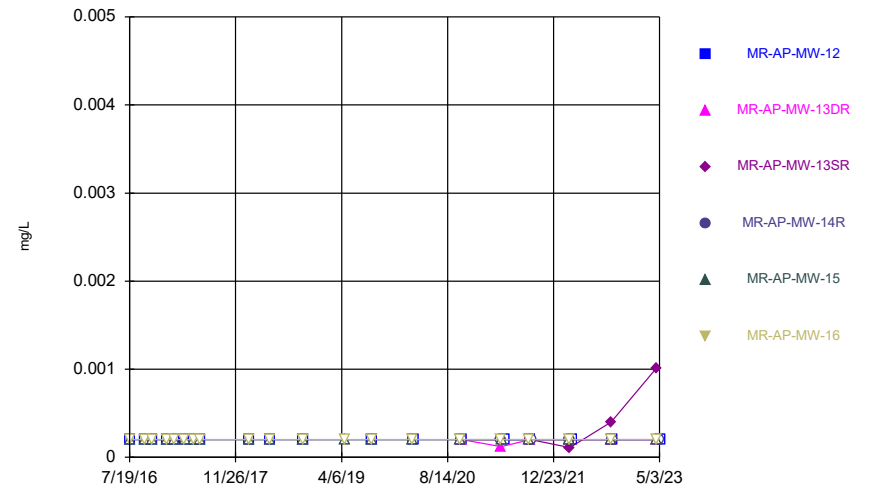
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Time Series



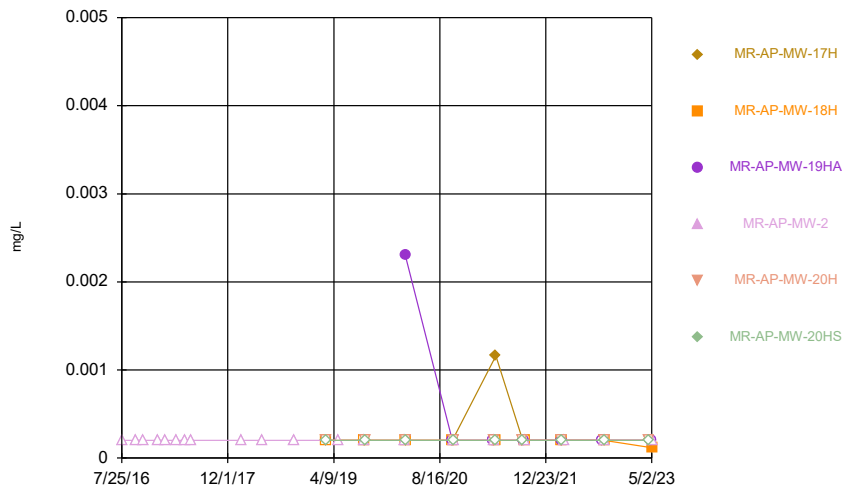
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Time Series



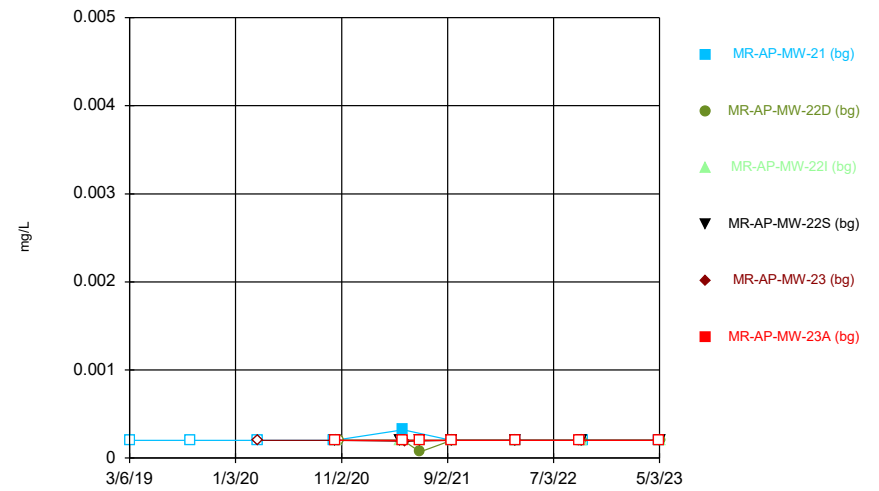
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Time Series



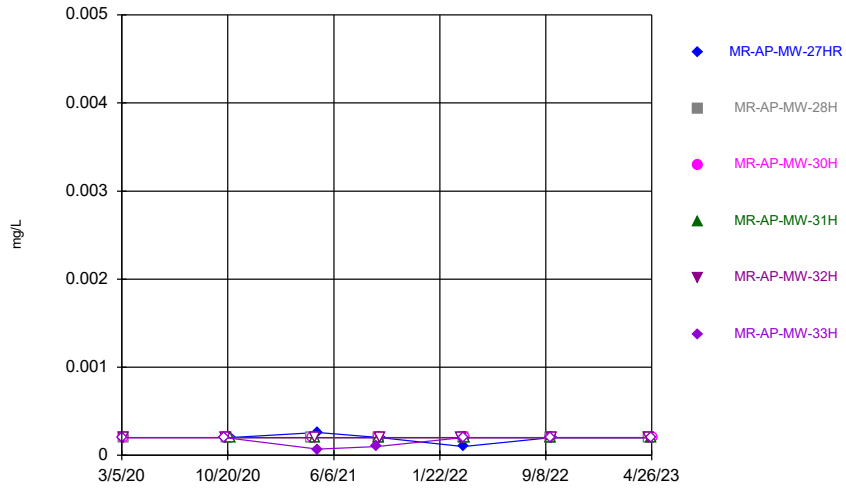
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Time Series



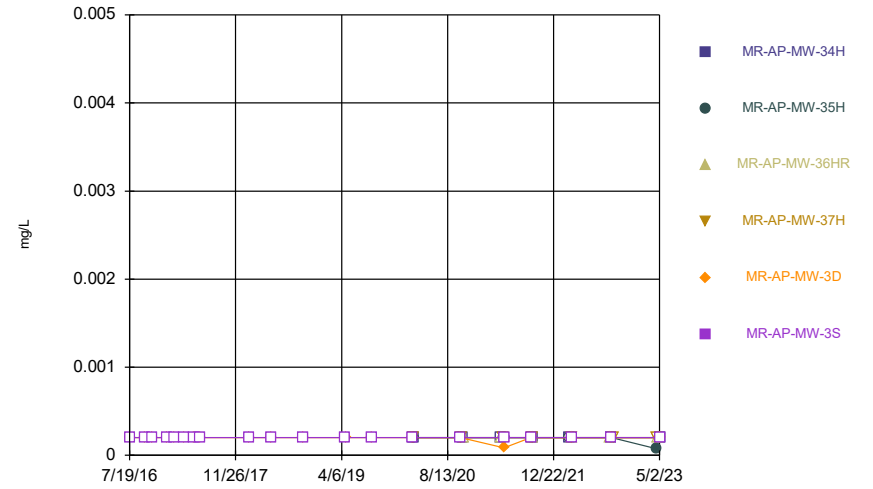
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Time Series



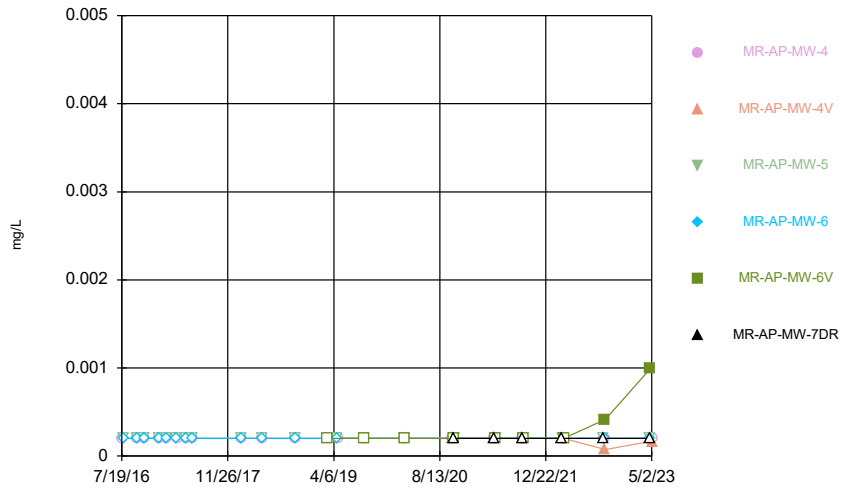
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Time Series



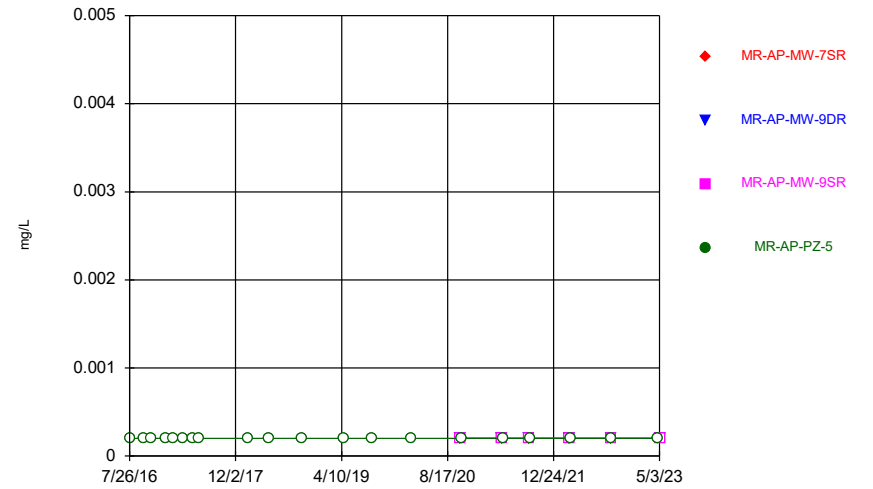
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Time Series



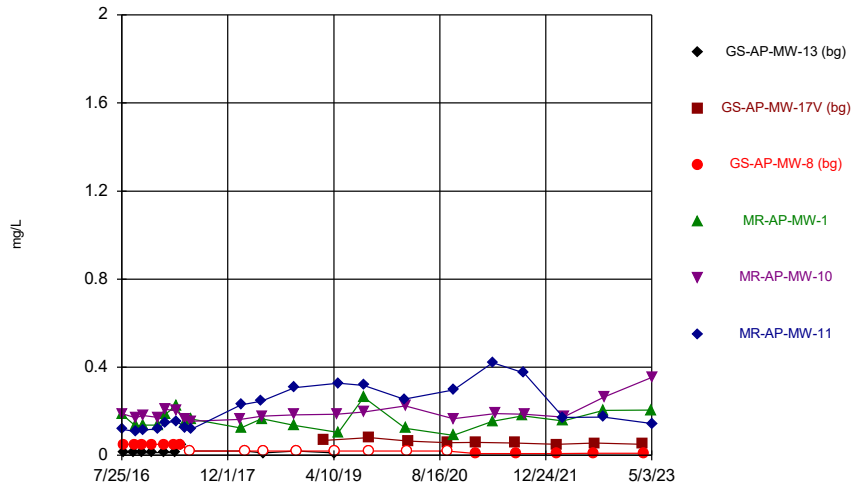
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Time Series



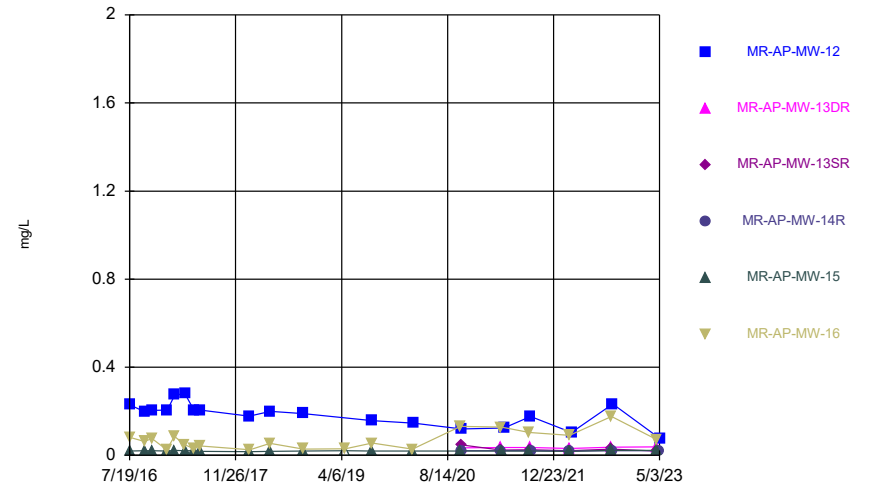
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Time Series



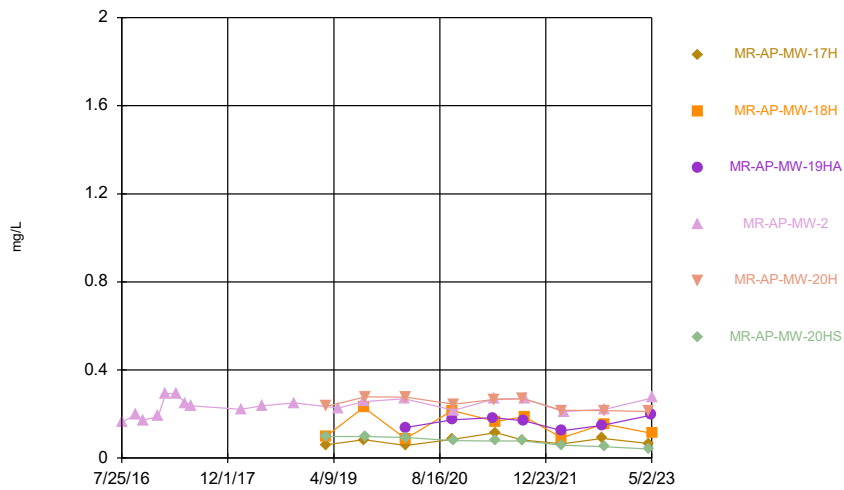
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Time Series



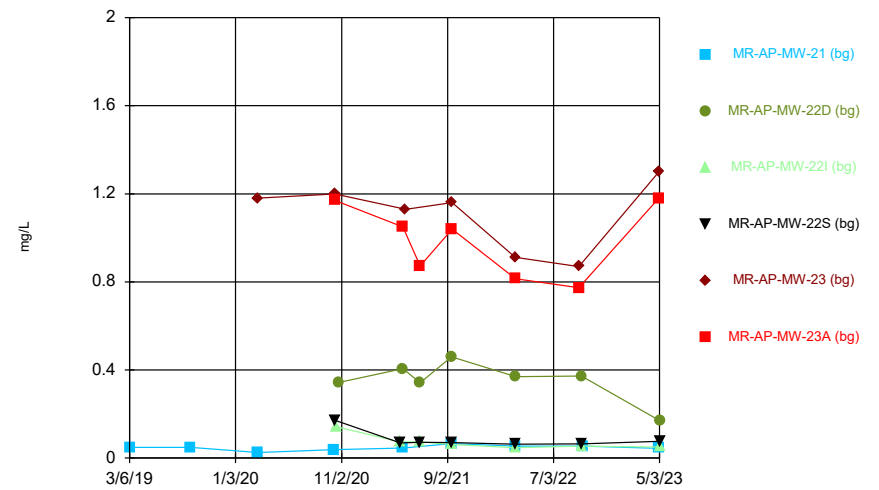
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Time Series



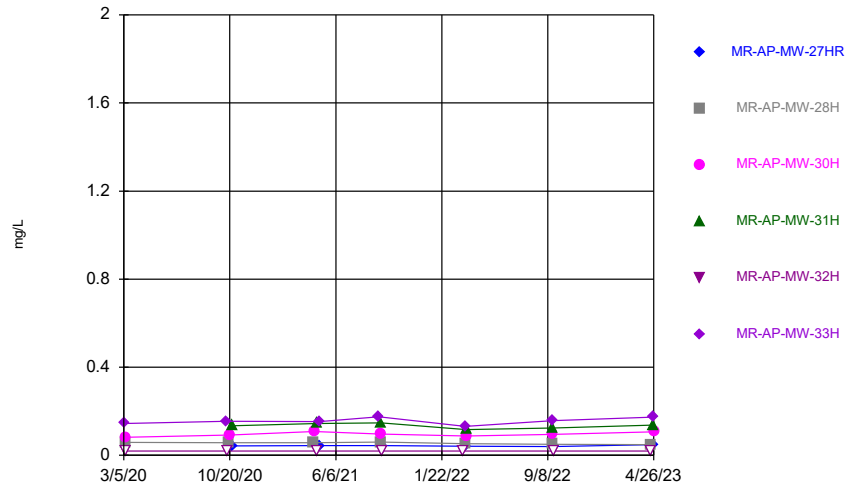
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Time Series



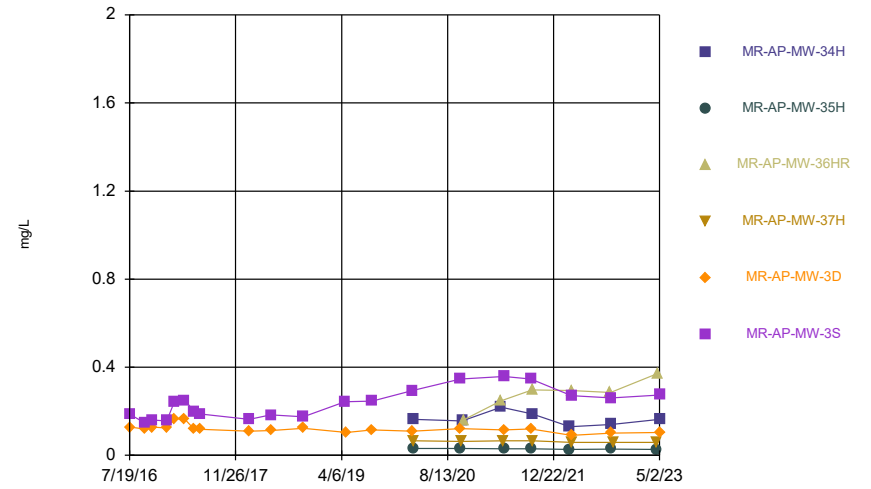
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Time Series



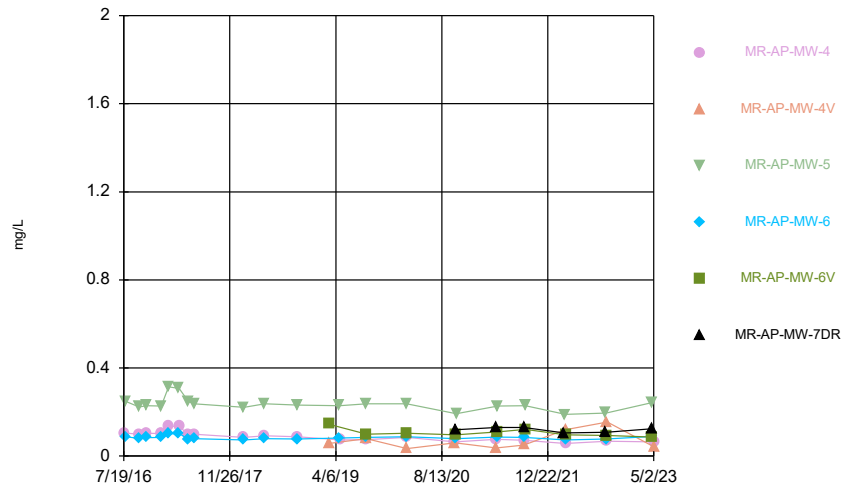
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Time Series



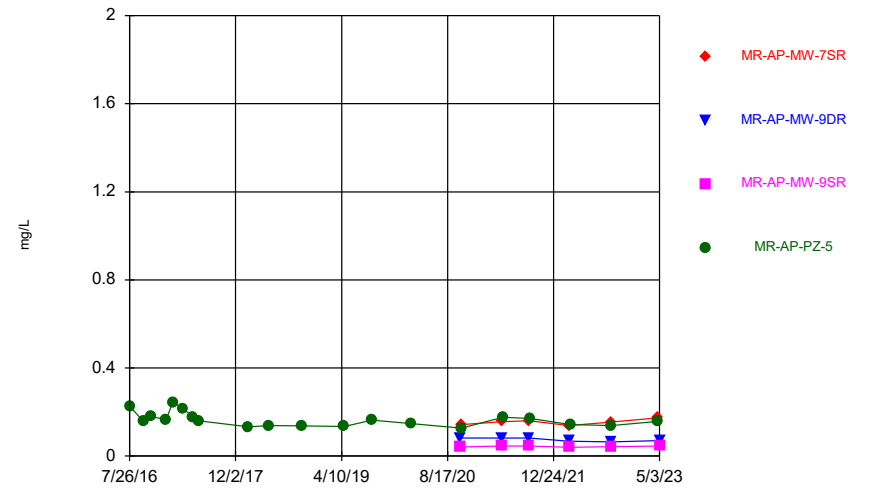
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Time Series



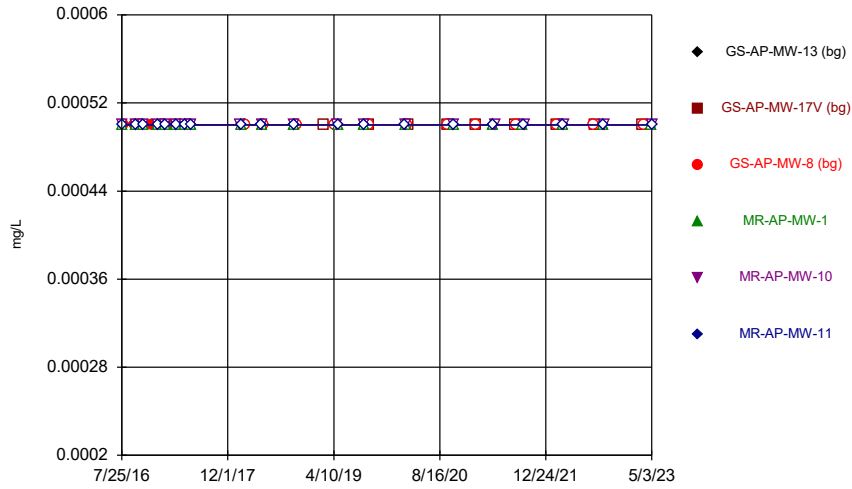
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Time Series



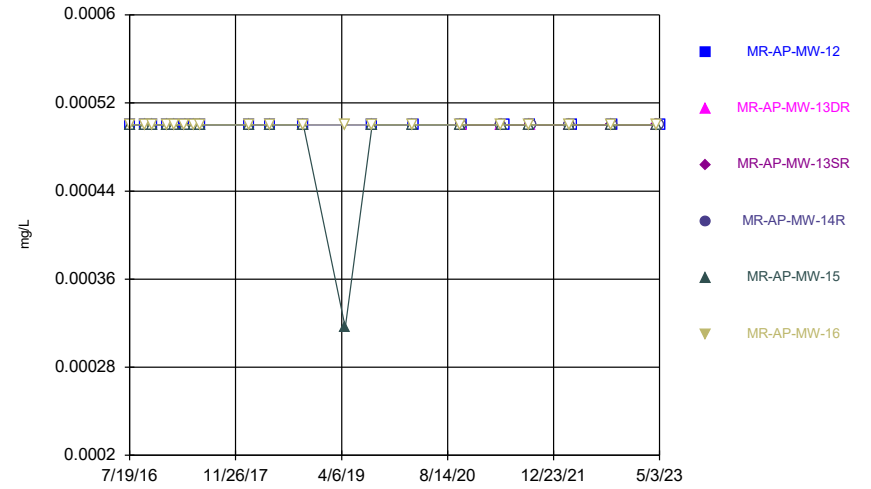
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Time Series



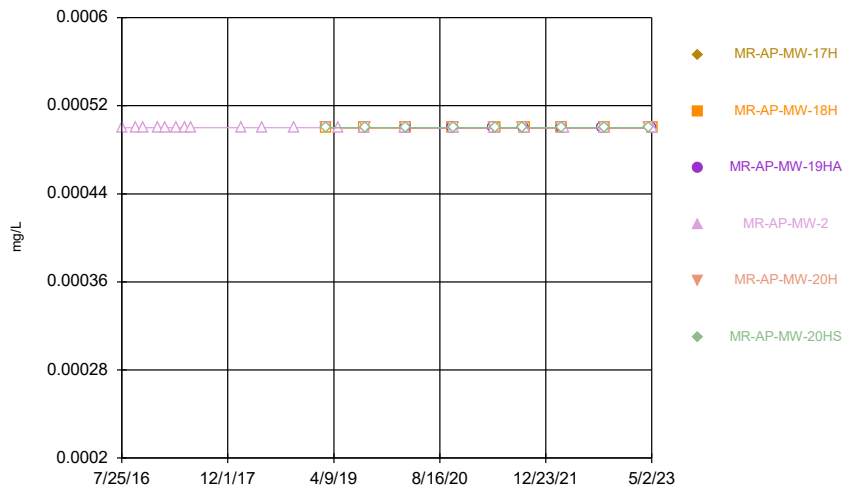
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Time Series



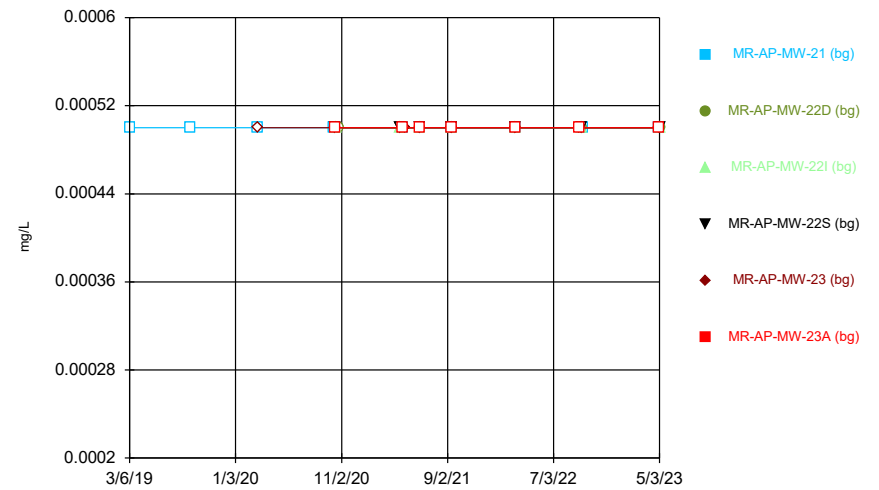
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Time Series



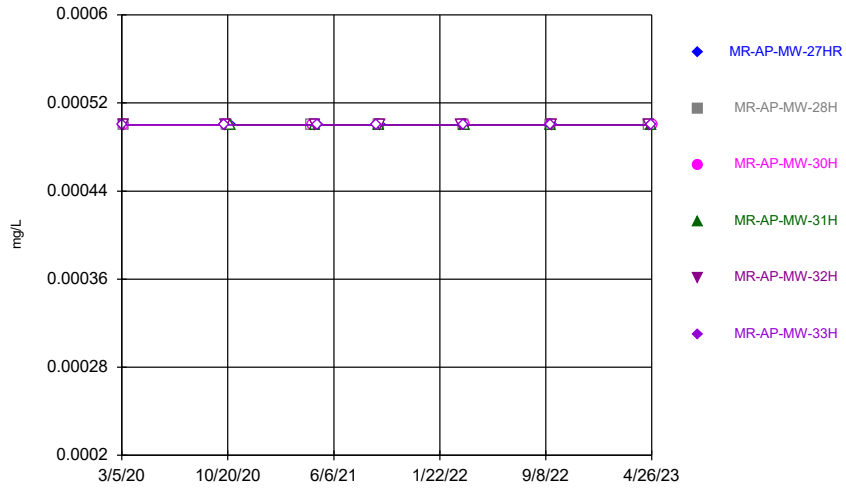
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Time Series



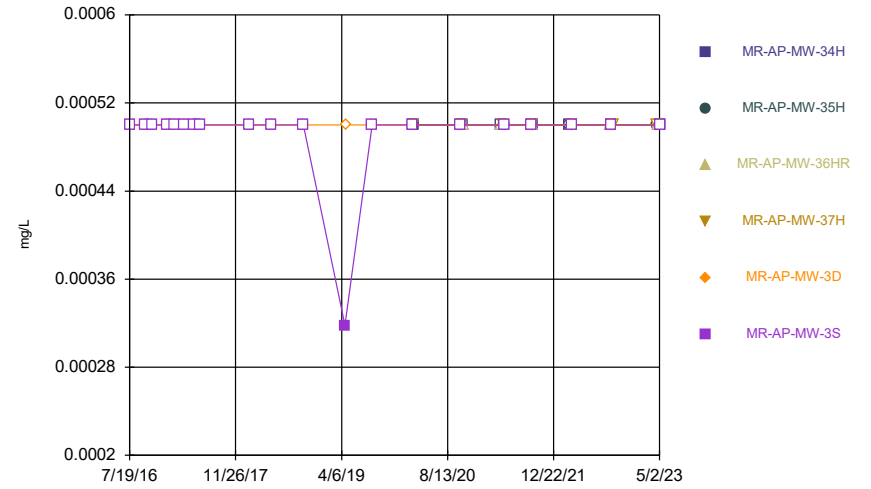
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Time Series



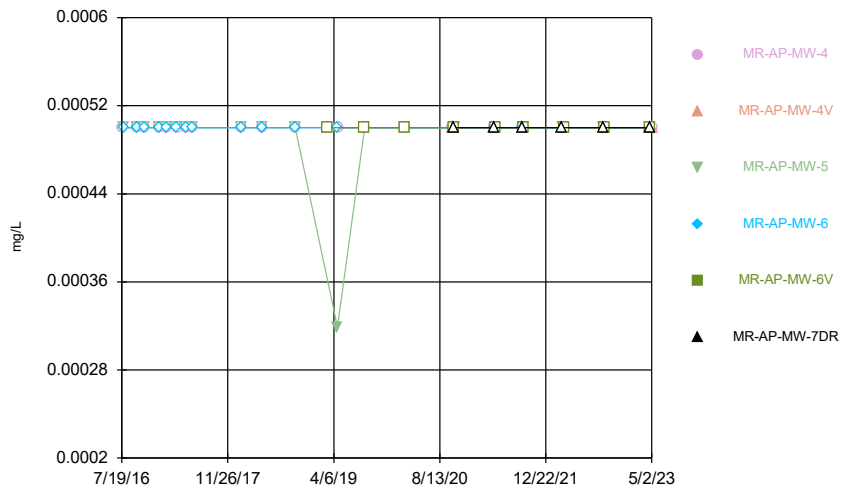
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Time Series



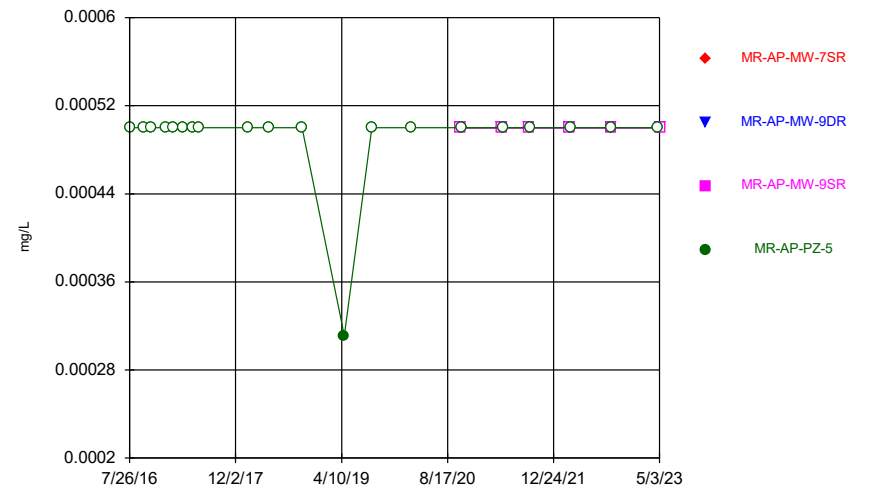
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Time Series



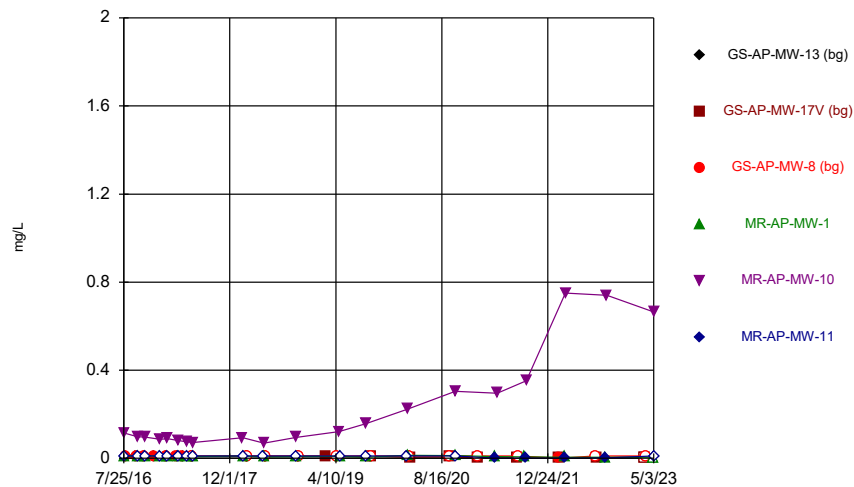
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Time Series



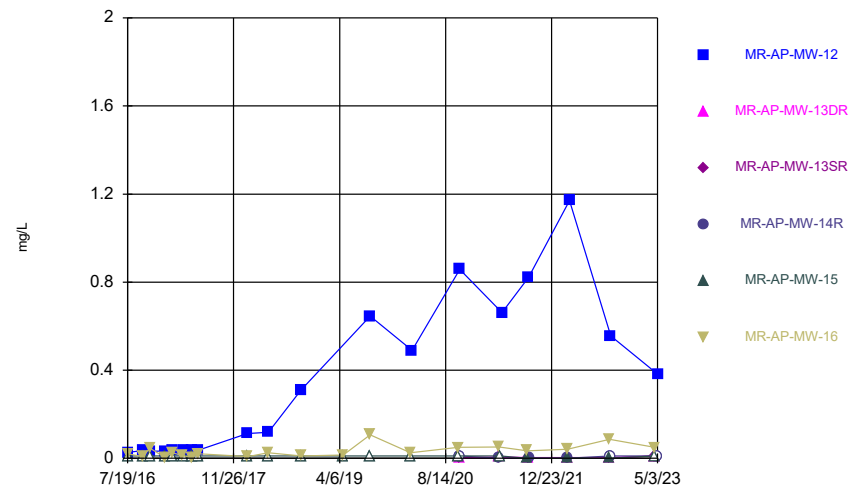
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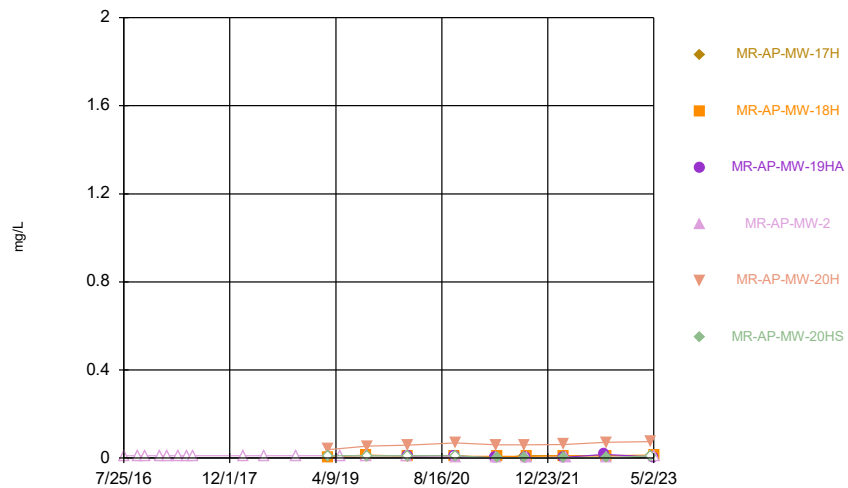
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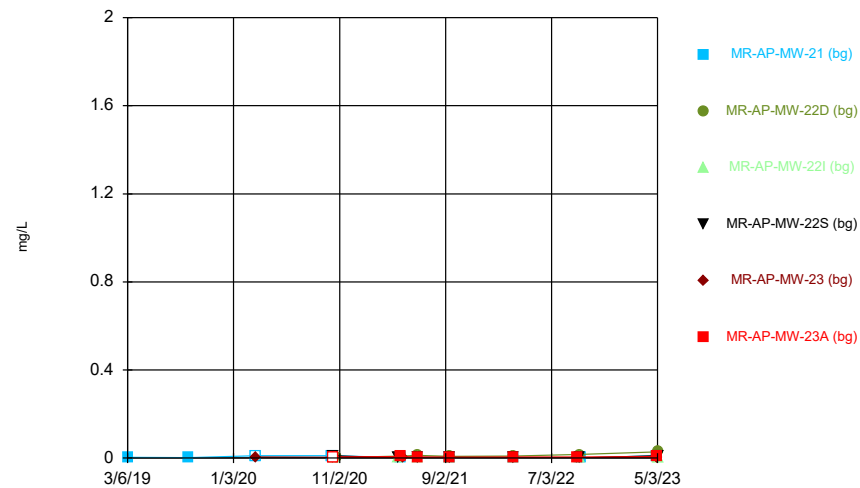
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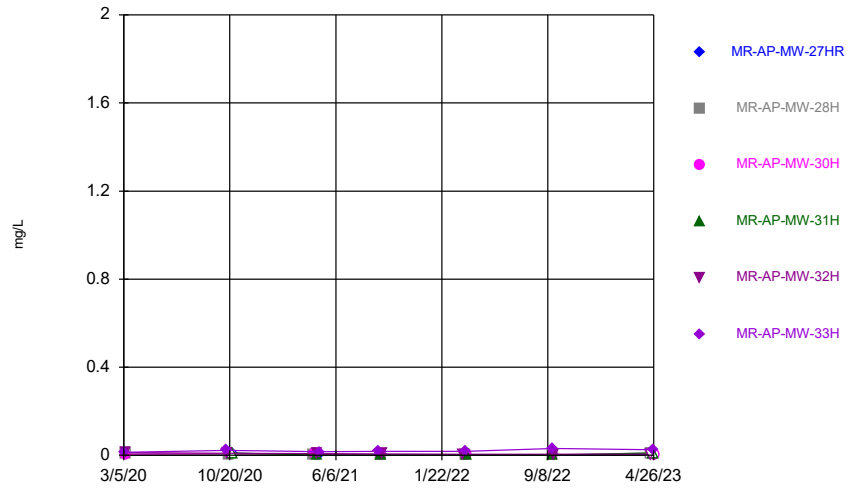
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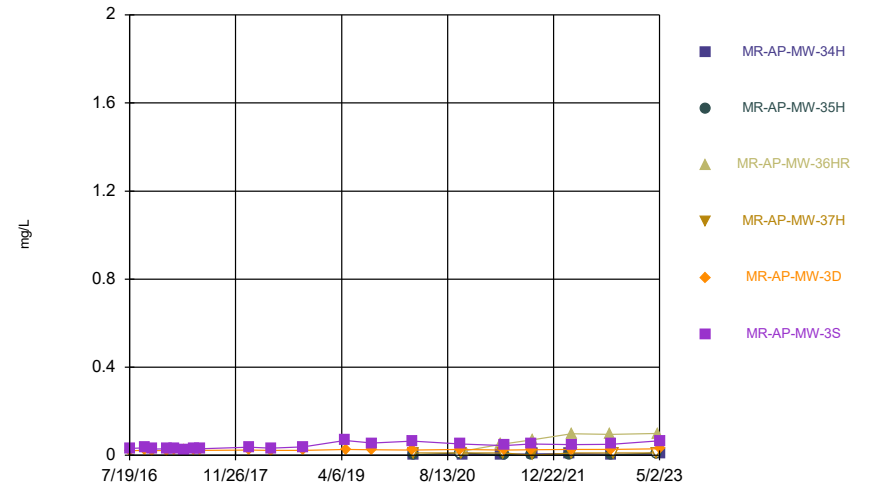
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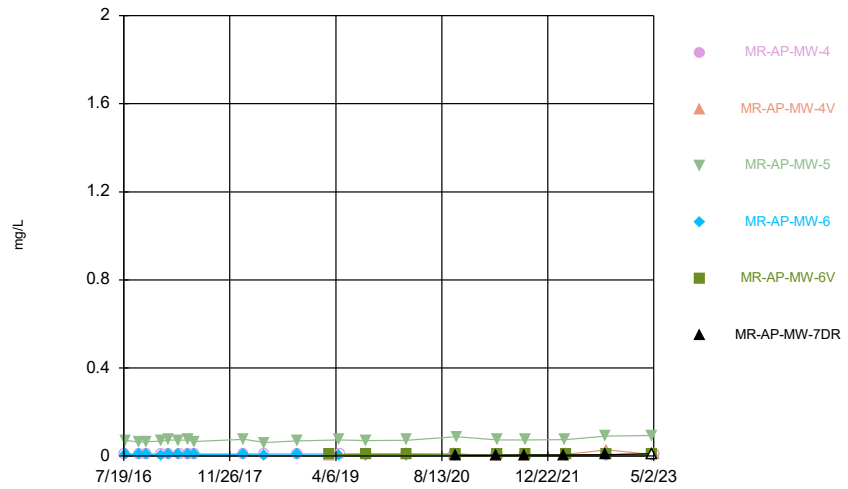
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Time Series



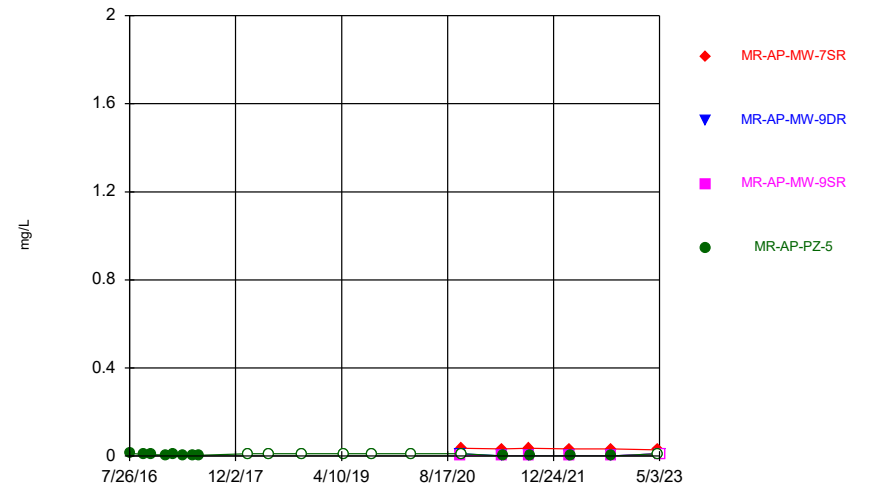
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Time Series



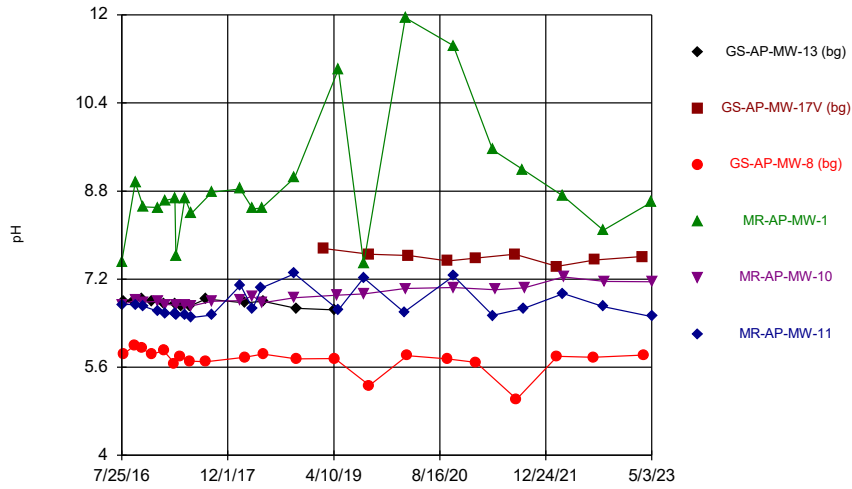
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Time Series



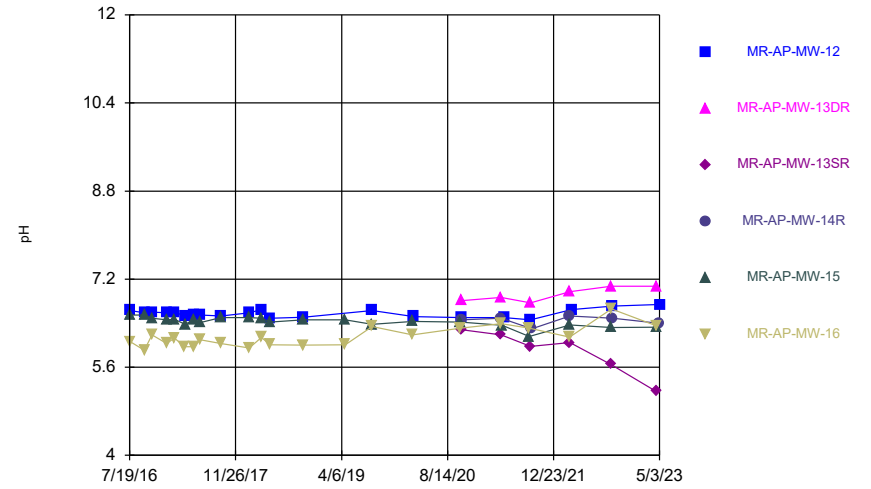
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Time Series



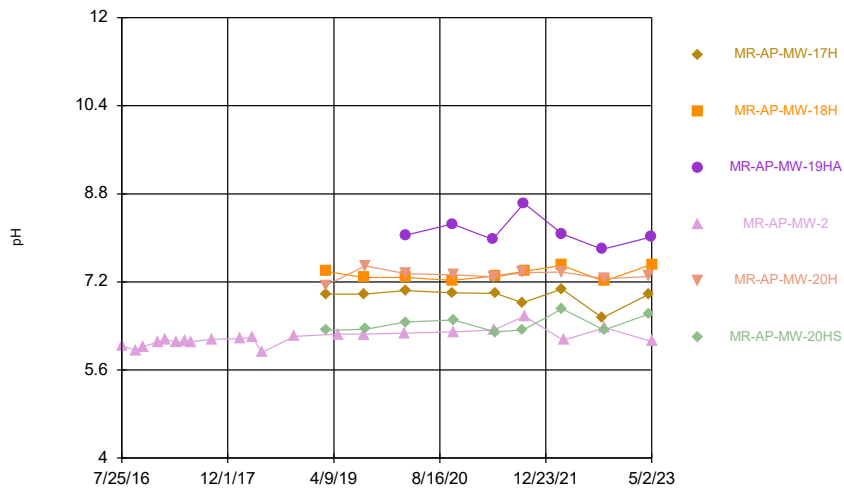
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Time Series



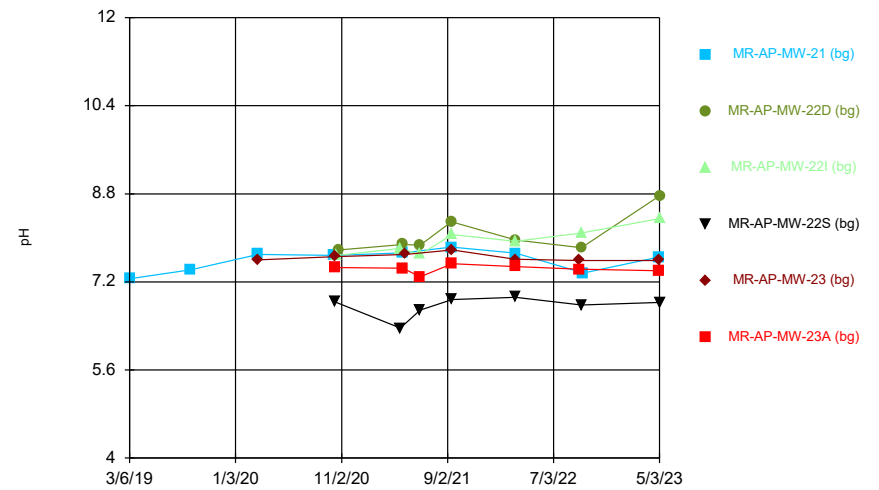
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Time Series



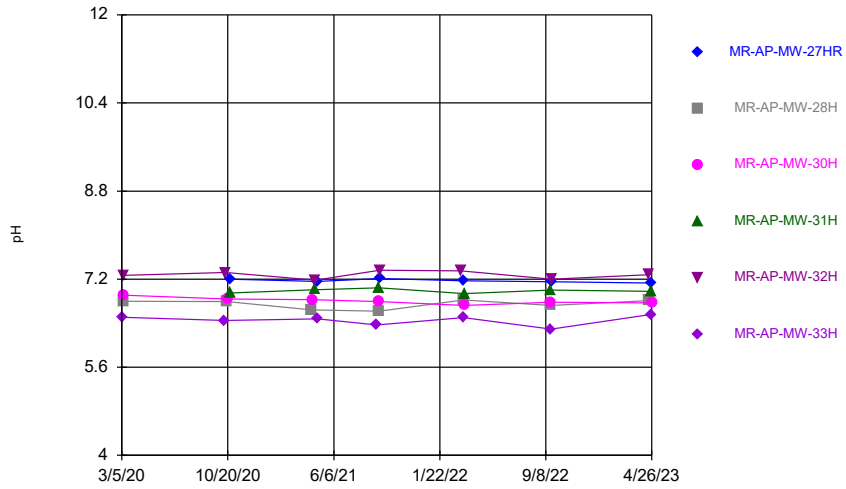
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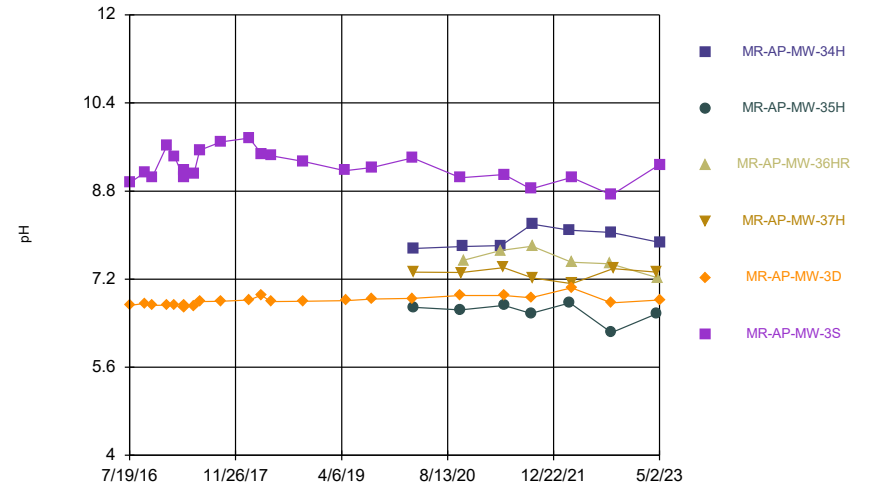
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Time Series



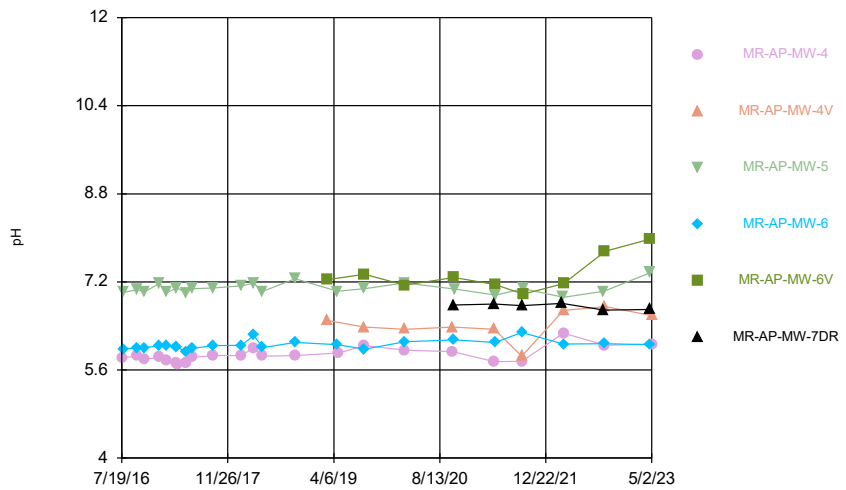
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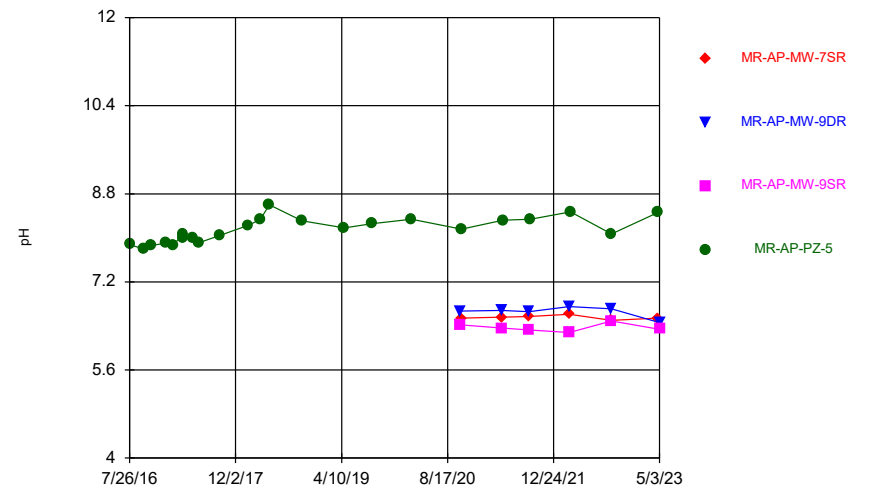
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



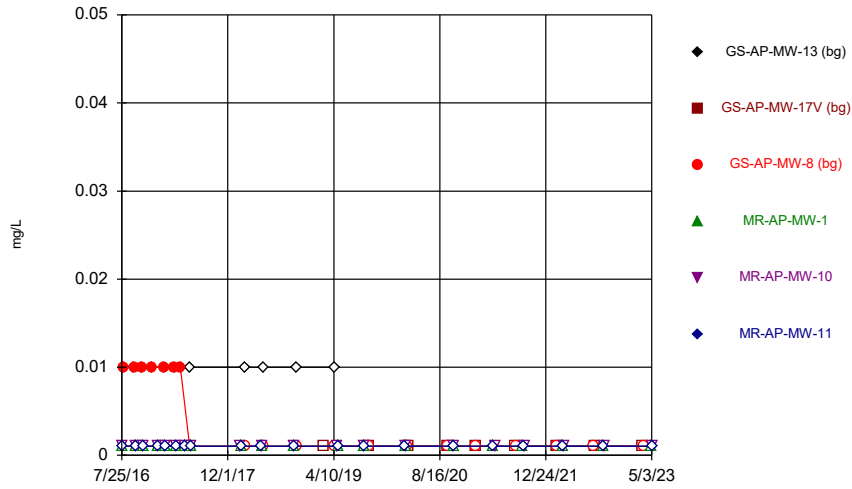
Constituent: pH, Field Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



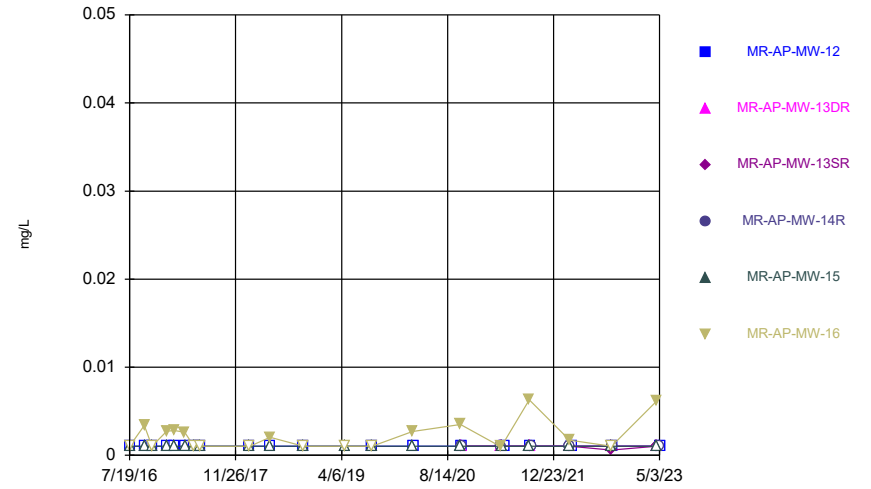
Constituent: pH, Field Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



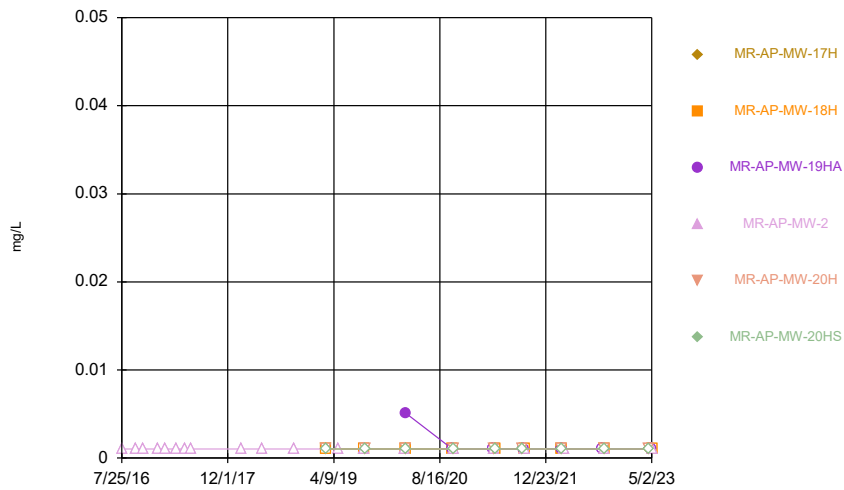
Constituent: Seleniun Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



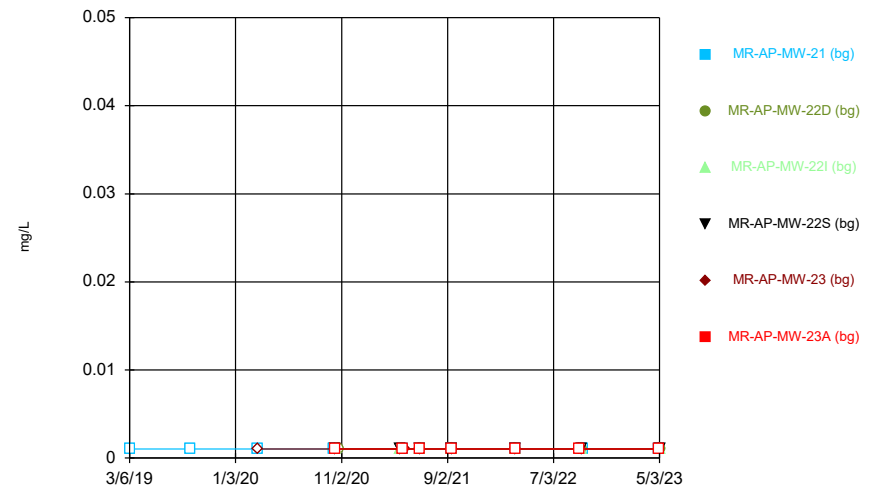
Constituent: Seleniun Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



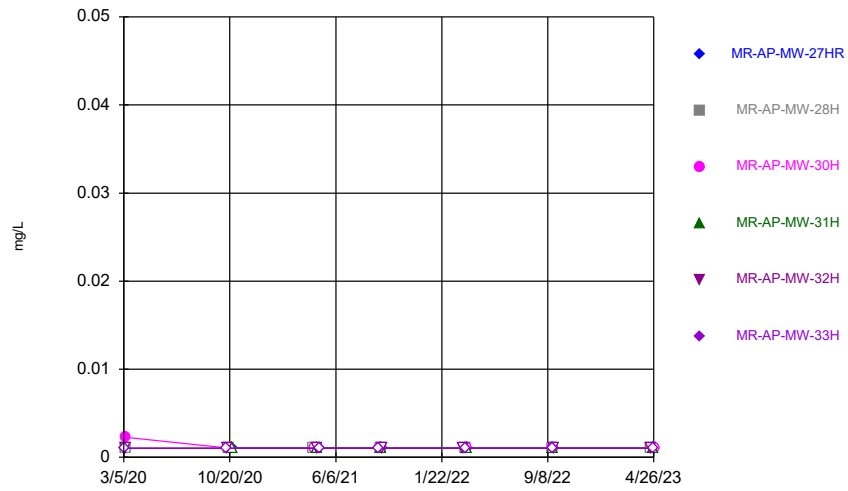
Constituent: Seleniun Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



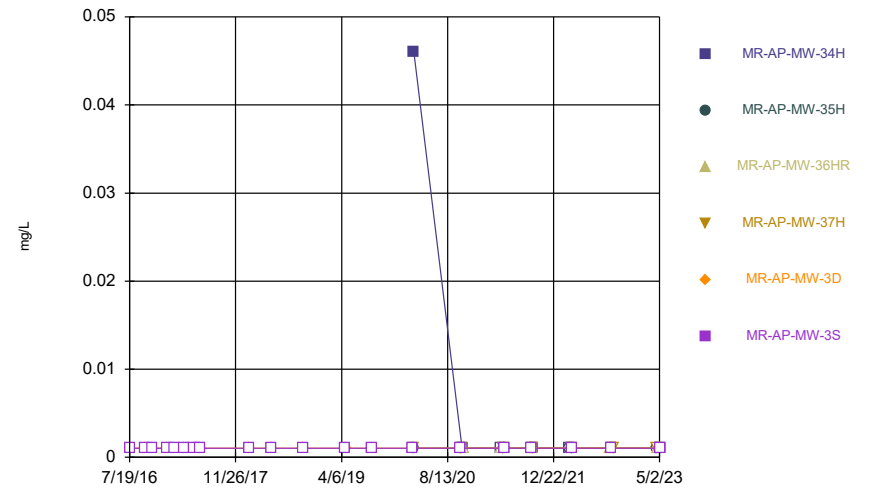
Constituent: Seleniun Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



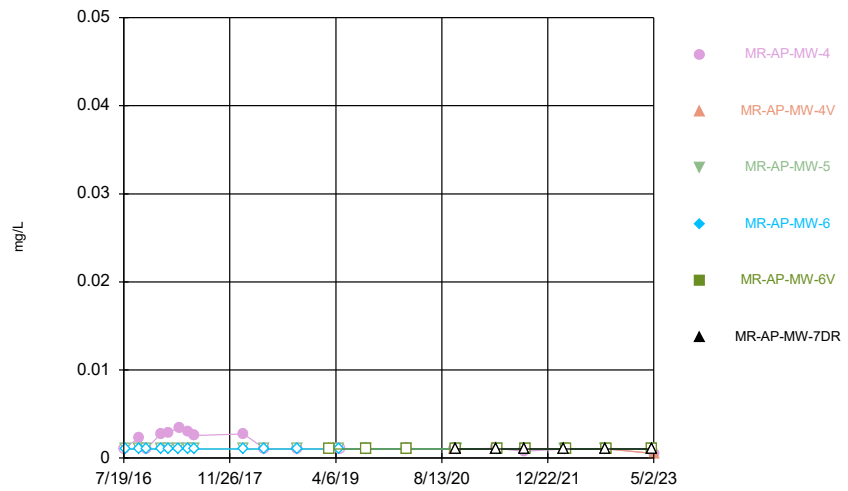
Constituent: Seleniun Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



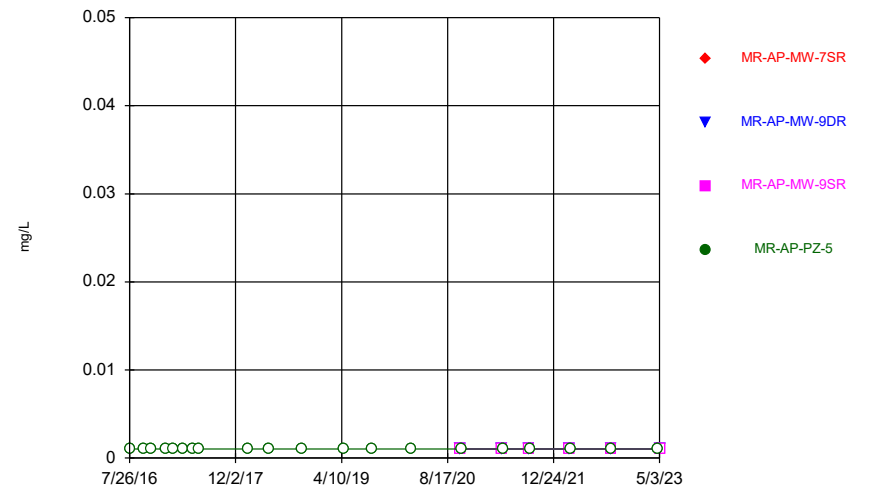
Constituent: Seleniun Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



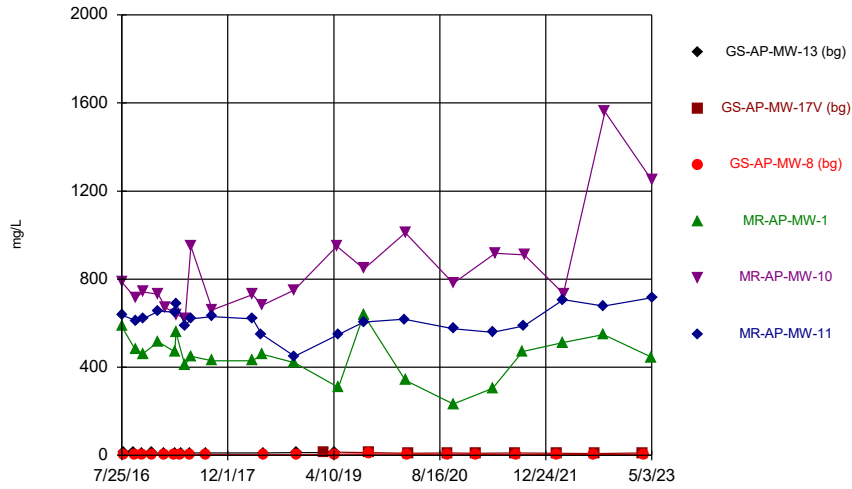
Constituent: Seleniun Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



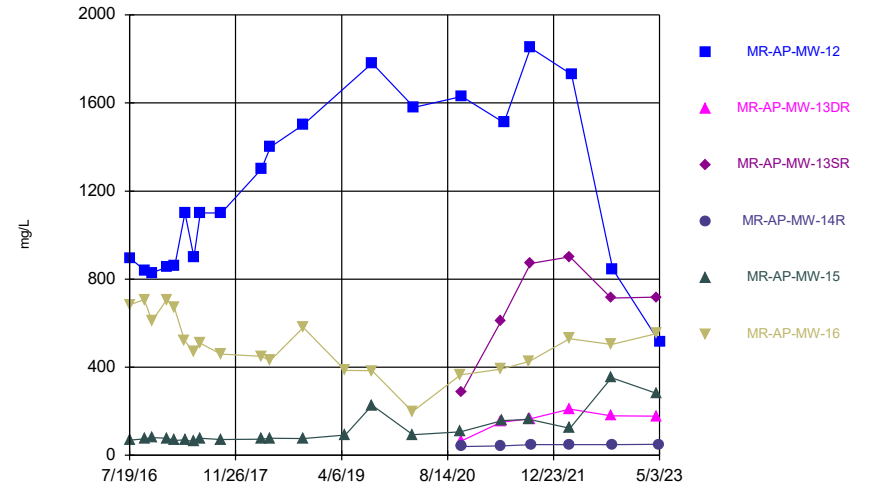
Constituent: Seleniun Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



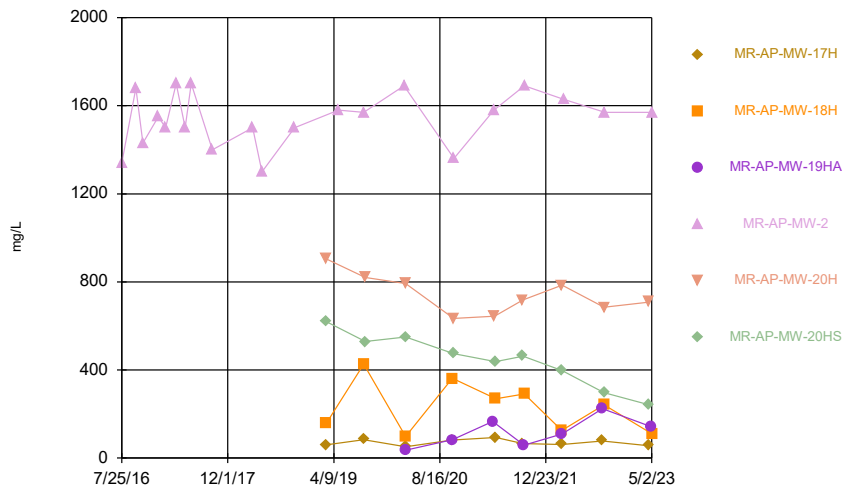
Constituent: Sulfate as SO4 Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



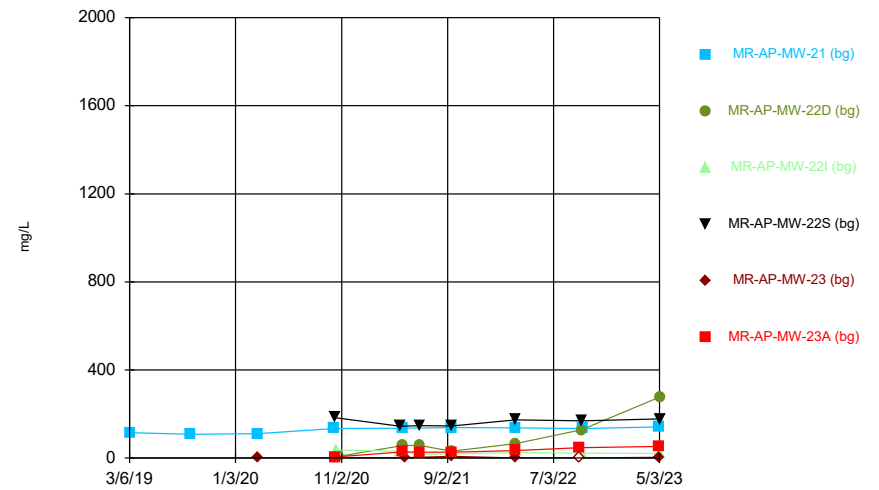
Constituent: Sulfate as SO4 Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



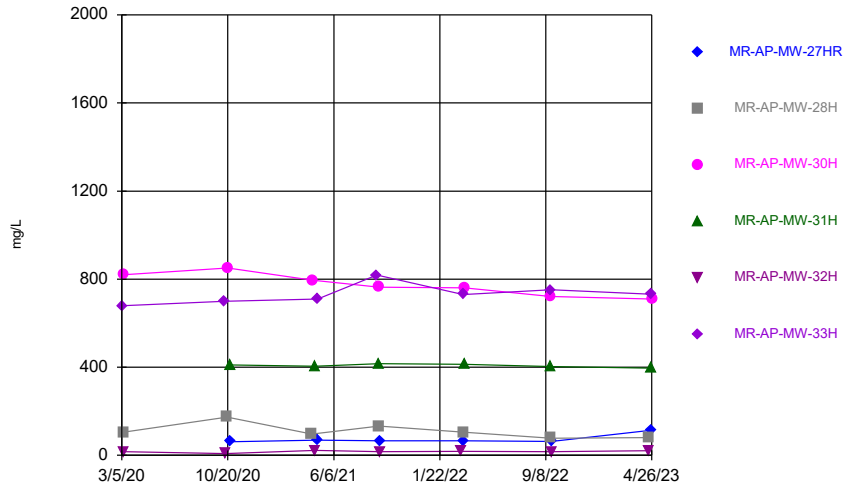
Constituent: Sulfate as SO4 Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



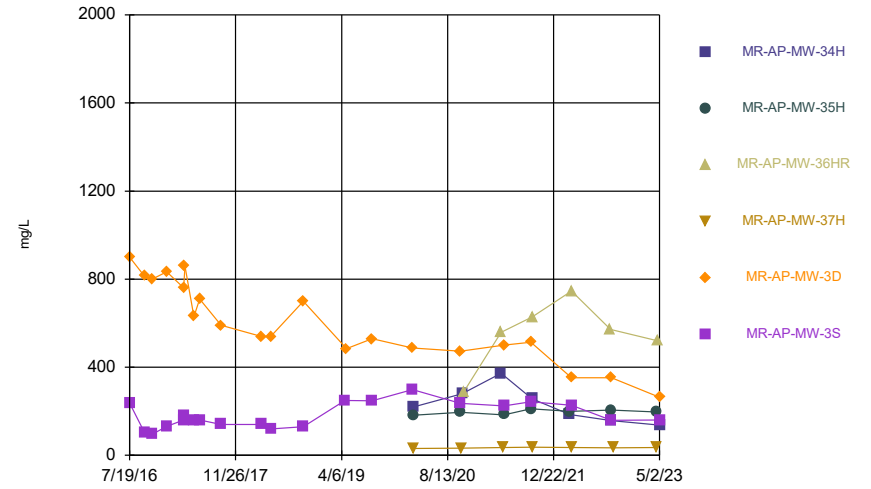
Constituent: Sulfate as SO4 Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



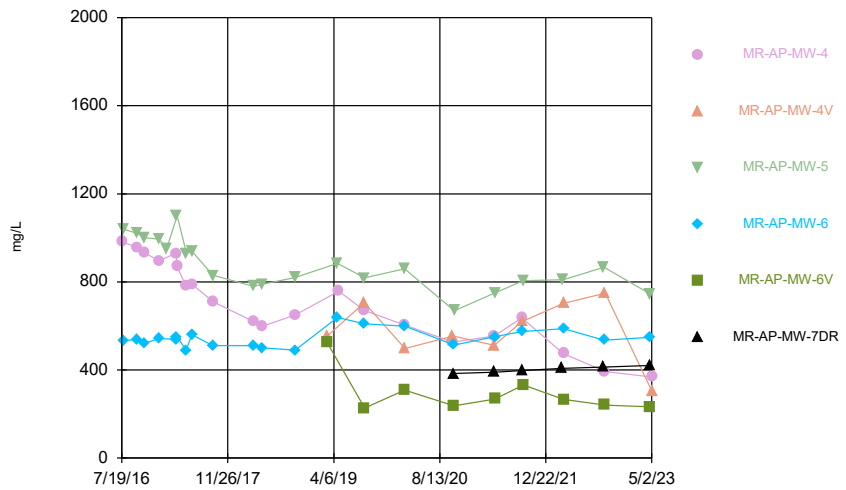
Constituent: Sulfate as SO4 Analysis Run 6/27/2023 8:42 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



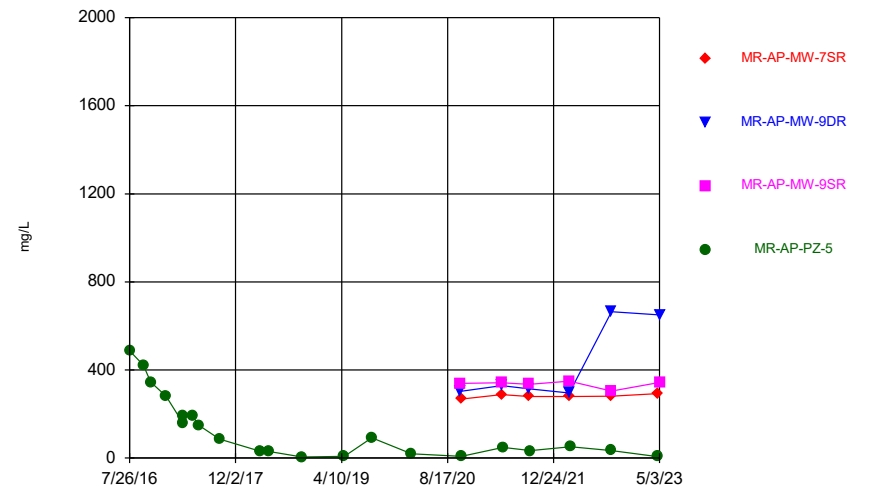
Constituent: Sulfate as SO4 Analysis Run 6/27/2023 8:42 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



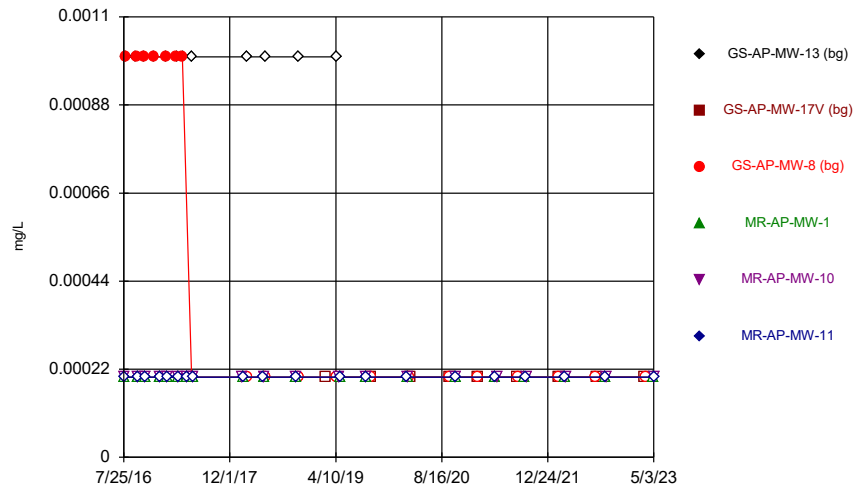
Constituent: Sulfate as SO4 Analysis Run 6/27/2023 8:42 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



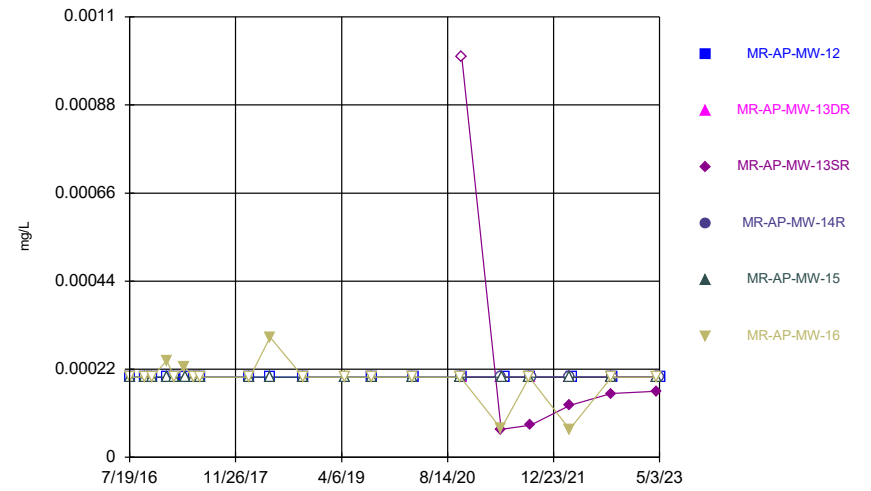
Constituent: Sulfate as SO4 Analysis Run 6/27/2023 8:42 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



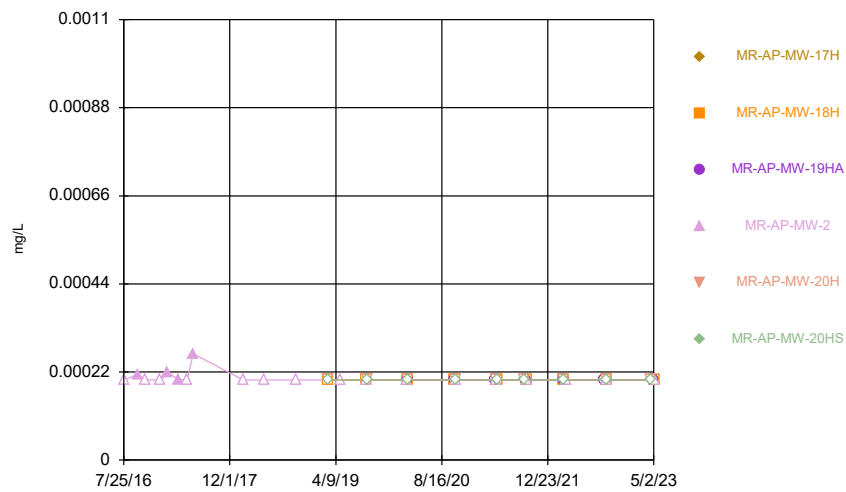
Constituent: Thallium Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



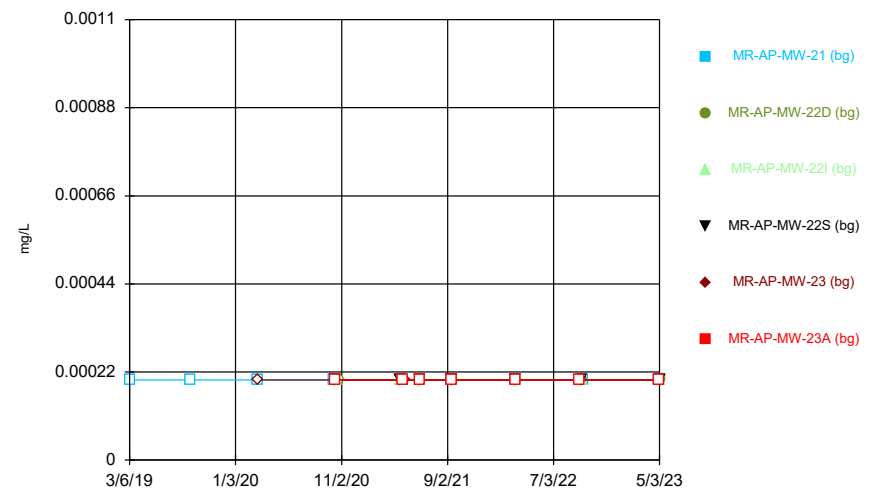
Constituent: Thallium Analysis Run 6/27/2023 8:42 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



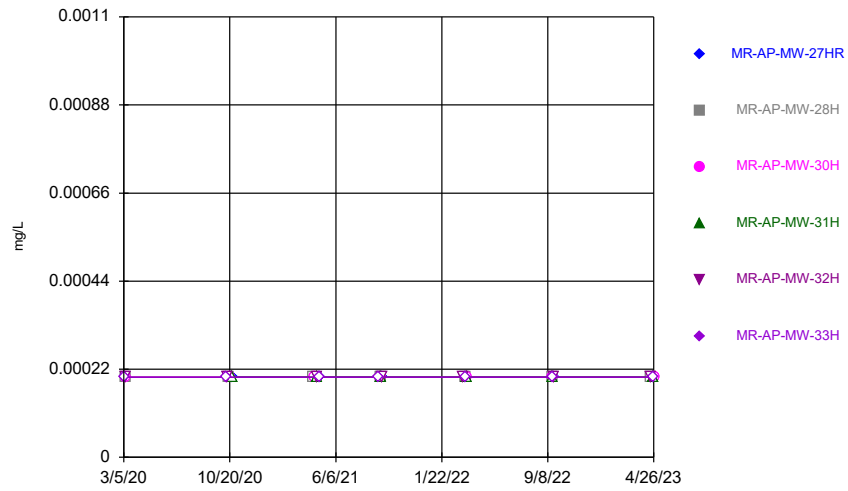
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



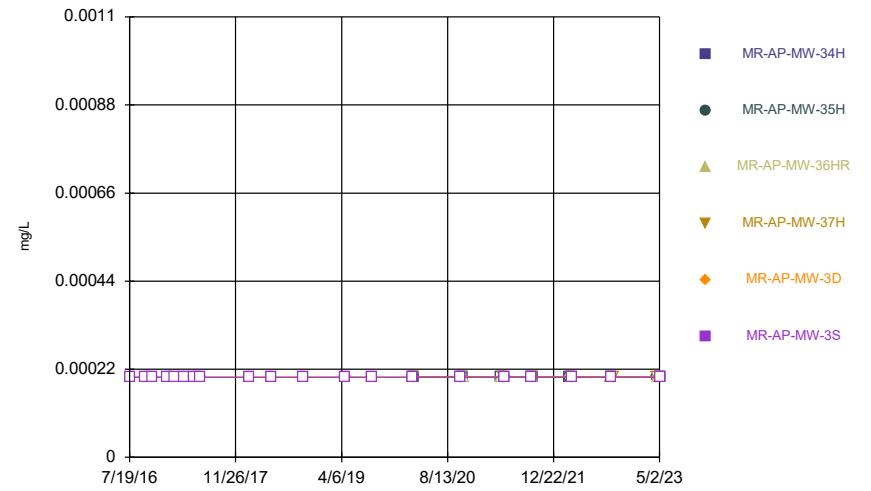
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



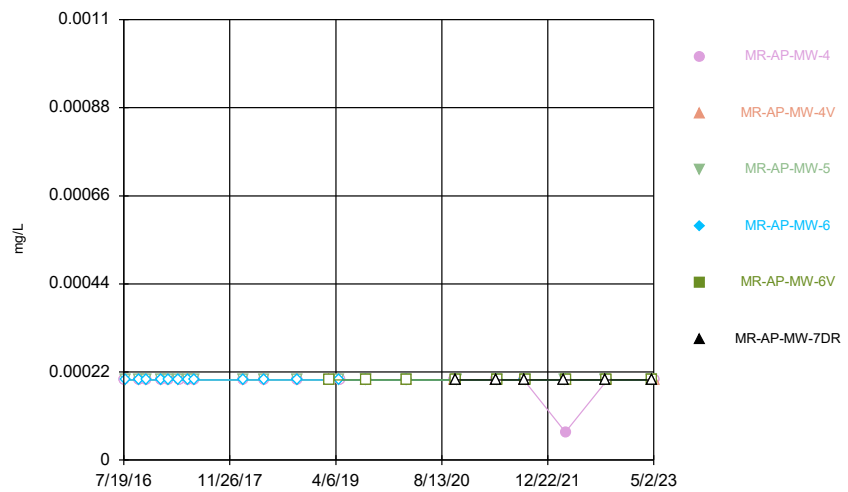
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



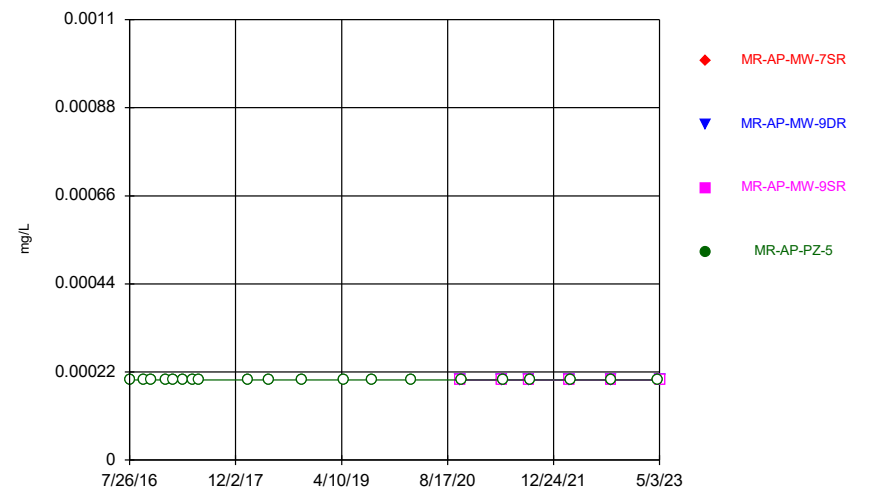
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



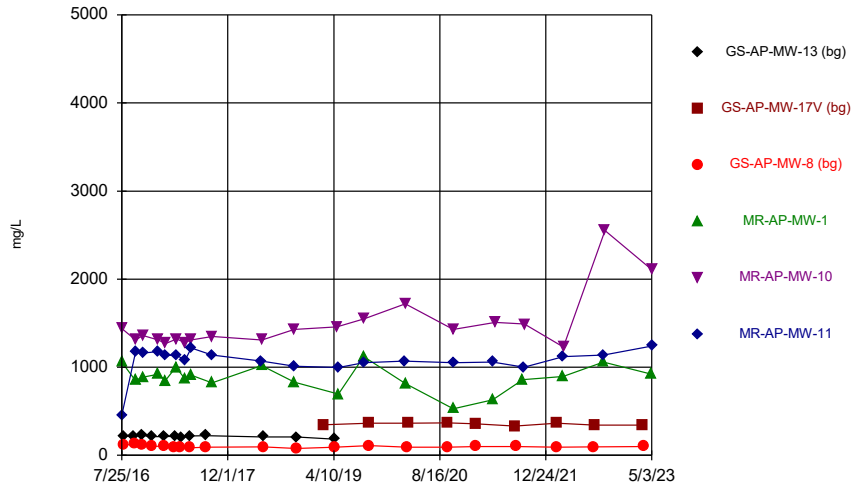
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



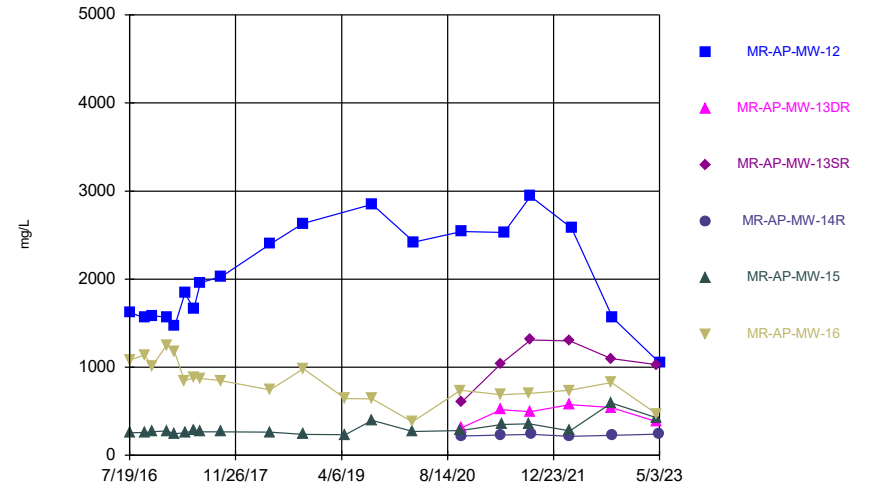
Constituent: Thallium Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



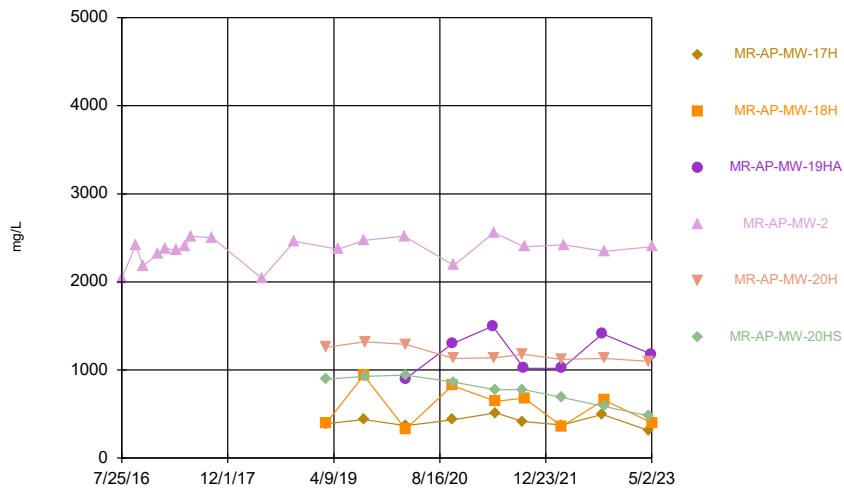
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



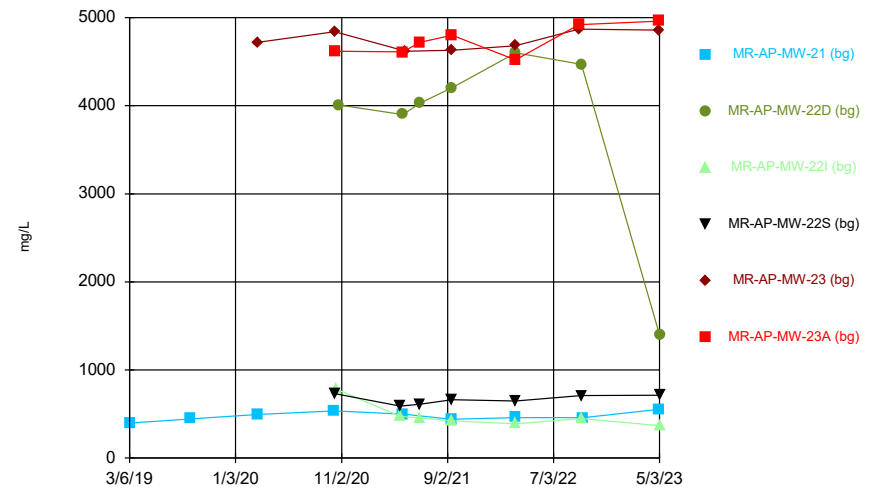
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



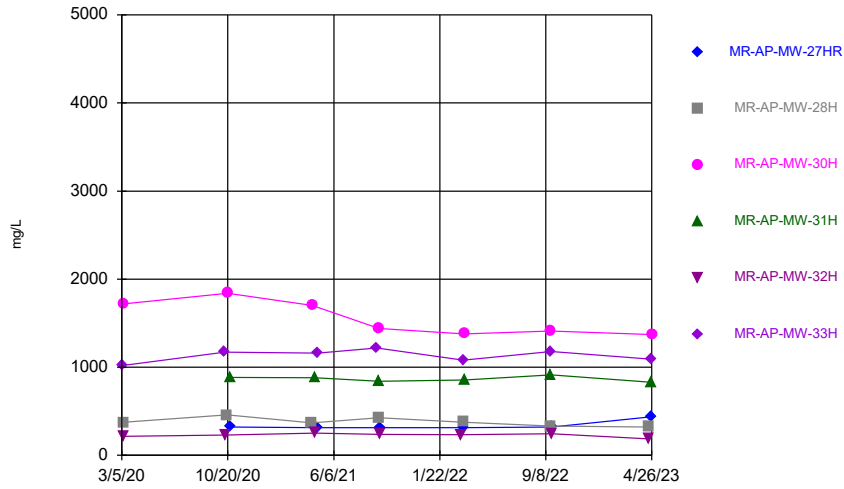
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



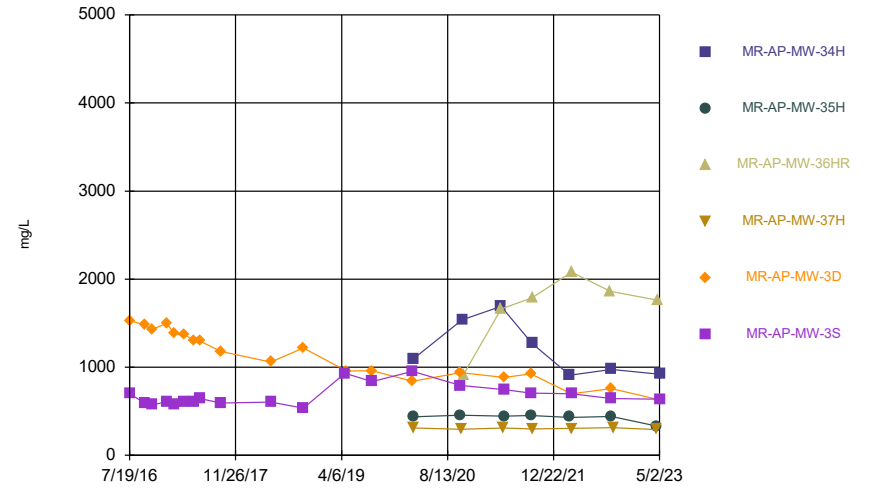
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



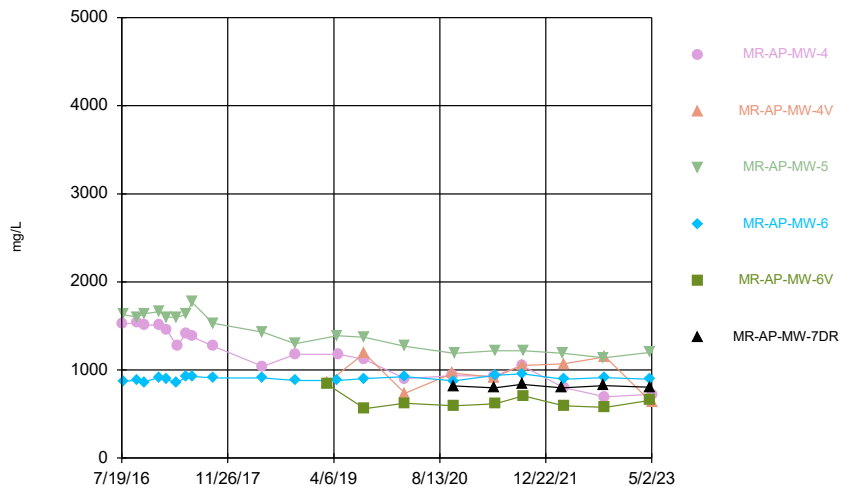
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



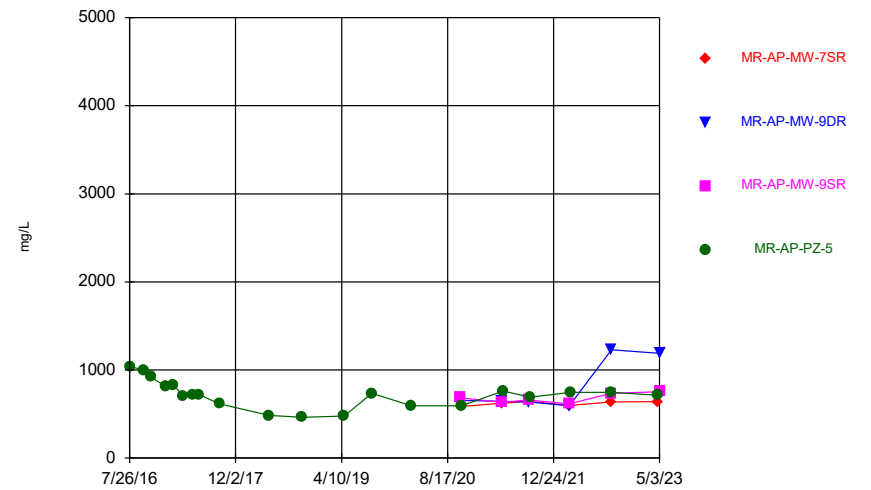
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.00102	<0.001015	<0.001015
8/2/2016	0.003					
8/3/2016			0.003			
9/20/2016	0.003					
9/21/2016			0.003			
9/26/2016				<0.00102		
9/27/2016					<0.001015	<0.001015
10/25/2016	0.003		0.003			
10/31/2016					<0.001015	
11/1/2016						<0.001015
11/2/2016				<0.00102		
12/13/2016	0.003		0.00067 (J)			
1/11/2017				<0.00102	<0.001015	
1/12/2017						<0.001015
2/6/2017			0.003			
2/8/2017	0.003					
2/13/2017				<0.00102		<0.001015
2/14/2017					<0.001015	
3/28/2017			0.003			
3/29/2017	0.003					
4/3/2017				<0.00102		
4/4/2017						<0.001015
4/6/2017					<0.001015	
4/24/2017			0.003			
4/26/2017	0.003					
5/15/2017				<0.00102		
5/16/2017						<0.001015
5/17/2017					<0.001015	
6/7/2017	<0.003		<0.001015			
6/13/2017					<0.001015	
6/14/2017				<0.00102		<0.001015
1/31/2018					<0.001015	
2/1/2018				<0.00102		<0.001015
2/19/2018			<0.001015			
2/20/2018	<0.003					
5/8/2018						<0.001015
5/9/2018				<0.00102		
5/10/2018					<0.001015	
5/15/2018	<0.003		<0.001015			
10/8/2018					<0.001015	
10/9/2018				<0.00102		<0.001015
10/16/2018			<0.001015			
10/17/2018	<0.003					
2/20/2019		0.00115 (J)				
4/16/2019	<0.003		<0.001015			
4/24/2019					<0.001015	
5/1/2019				<0.00102		<0.001015
8/27/2019				<0.00102		
8/28/2019						<0.001015
8/29/2019					<0.001015	
9/24/2019		<0.001015	<0.001015			
3/3/2020						<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.00102	<0.001015	
3/18/2020			<0.001015			
3/25/2020	<0.001015					
9/21/2020			<0.001015			
9/23/2020	<0.001015					
10/19/2020				<0.00102	<0.001015	
10/20/2020						<0.001015
2/2/2021	<0.001015		<0.001015			
4/20/2021				<0.00102		
4/21/2021						<0.001015
5/3/2021					<0.001015	
8/2/2021	<0.001015					
8/10/2021			<0.001015			
9/8/2021				<0.00102		
9/14/2021						<0.001015
9/15/2021					<0.001015	
2/14/2022	<0.001015					
2/16/2022			<0.001015			
3/15/2022				<0.00102		
3/16/2022						<0.001015
3/17/2022					<0.001015	
8/2/2022			<0.001015			
8/9/2022	<0.001015					
9/19/2022				<0.00102		
9/20/2022						<0.001015
9/26/2022					<0.001015	
3/22/2023	<0.001015					
3/27/2023			<0.001015			
5/2/2023				0.0255		
5/3/2023					<0.001015	<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.001015	<0.001015
7/20/2016	0.00069 (J)					
9/26/2016					<0.001015	<0.001015
9/27/2016	0.000757 (J)					
10/31/2016					<0.001015	<0.001015
11/1/2016	<0.001015					
1/9/2017					<0.001015	<0.001015
1/11/2017	<0.001015					
2/14/2017					<0.001015	0.000801 (J)
2/15/2017	<0.001015					
4/3/2017						<0.001015
4/4/2017	0.000652 (J)				<0.001015	
5/15/2017	0.000849 (J)					
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
6/14/2017	<0.001015					
1/30/2018	<0.001015					
1/31/2018					<0.001015	
2/1/2018						<0.001015
5/7/2018					<0.001015	<0.001015
5/8/2018	<0.001015					
10/8/2018	<0.001015					
10/9/2018					<0.001015	<0.001015
4/24/2019					<0.001015	0.00107 (J)
8/28/2019	<0.001015				<0.001015	<0.001015
3/3/2020						<0.001015
3/4/2020					<0.001015	
3/10/2020	<0.001015					
10/13/2020					<0.001015	<0.001015
10/19/2020	<0.001015					
10/20/2020		<0.001015	<0.001015	<0.001015		
4/21/2021		<0.001015	<0.001015	<0.001015		0.000768 (J)
4/26/2021					<0.001015	
5/5/2021	<0.001015					
9/1/2021					<0.001015	<0.001015
9/7/2021	0.00056 (J)	<0.001015	<0.001015			
9/13/2021				<0.001015		
3/8/2022						<0.001015
3/9/2022		<0.001015	<0.001015	<0.001015	<0.001015	
3/17/2022	0.00058 (J)					
9/19/2022		<0.001015	<0.001015			
9/20/2022					<0.001015	<0.001015
9/26/2022	<0.001015				<0.001015	
4/18/2023		<0.001015	<0.001015			
4/19/2023					<0.001015	<0.001015
5/2/2023				<0.001015		
5/3/2023	<0.001015					

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.001015		
9/28/2016				<0.001015		
11/1/2016				<0.001015		
1/11/2017				<0.001015		
2/14/2017				<0.001015		
4/4/2017				<0.001015		
5/16/2017				<0.001015		
6/14/2017				<0.001015		
2/1/2018				<0.001015		
5/9/2018				<0.001015		
10/9/2018				<0.001015		
3/6/2019	<0.001015	<0.001015			<0.001015	<0.001015
5/1/2019				<0.001015		
8/27/2019	<0.001015	<0.001015		<0.001015		
9/3/2019					<0.001015	<0.001015
3/3/2020				<0.001015		
3/9/2020			<0.001015			
3/10/2020	<0.001015	<0.001015			<0.001015	<0.001015
10/13/2020	<0.001015	<0.001015				
10/14/2020			<0.001015			
10/19/2020					<0.001015	<0.001015
10/21/2020				<0.001015		
4/20/2021			<0.001015			
4/26/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021						<0.001015
5/5/2021	<0.001015	<0.001015				
9/7/2021	<0.001015					
9/8/2021					<0.001015	<0.001015
9/13/2021			<0.001015			
9/14/2021		<0.001015		<0.001015		
3/8/2022	<0.001015	<0.001015				
3/9/2022			<0.001015		<0.001015	<0.001015
3/16/2022				<0.001015		
9/14/2022	<0.001015		<0.001015			
9/21/2022		<0.001015			<0.001015	<0.001015
9/26/2022				<0.001015		
4/19/2023	<0.001015				<0.001015	<0.001015
5/1/2023			<0.001015			
5/2/2023		<0.001015		<0.001015		

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.001015					
8/28/2019	<0.001015					
3/9/2020	<0.001015				<0.00102	
10/13/2020	<0.001015					
10/14/2020				<0.001015	<0.00102	<0.00102
10/20/2020			<0.001015			
10/26/2020	<0.00102					
4/20/2021			<0.001015	<0.001015		
4/27/2021	<0.00102					0.000758 (J)
4/28/2021	<0.001015					
5/5/2021					<0.00102	
6/16/2021	<0.00102	<0.001015	<0.001015	<0.001015		<0.00102
9/14/2021	<0.001015	0.00072 (J)				
9/15/2021			<0.001015	<0.001015	0.00056 (J)	0.00057 (J)
3/15/2022					0.0009 (J)	
3/16/2022			<0.001015	<0.001015		0.00109
3/17/2022	<0.001015	0.00114				
9/14/2022					<0.00102	<0.00102
9/21/2022		<0.00102	<0.001015	<0.001015		
9/26/2022	<0.001015					
5/1/2023					0.00113	0.00148
5/2/2023	<0.001015					
5/3/2023		0.000764 (J)	<0.001015	<0.001015		

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.001015
3/9/2020		<0.001015				
3/10/2020			<0.001015		<0.001015	
10/14/2020						<0.001015
10/15/2020					<0.001015	
10/19/2020		<0.001015				
10/20/2020			<0.001015			
10/26/2020	<0.001015					
10/27/2020				<0.001015		
4/20/2021		<0.001015				
4/21/2021			<0.001015			
4/27/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021	<0.001015					<0.001015
9/8/2021						<0.001015
9/13/2021		<0.001015	<0.001015	<0.001015		
9/14/2021	<0.001015				<0.001015	
3/9/2022					<0.001015	
3/14/2022	<0.001015	<0.001015				<0.001015
3/16/2022			<0.001015	<0.001015		
9/19/2022			<0.001015			
9/20/2022		<0.001015		<0.001015		<0.001015
9/21/2022	<0.001015				<0.001015	
4/19/2023		<0.001015			<0.001015	
4/24/2023				<0.001015		
4/25/2023	<0.001015					<0.001015
4/26/2023			<0.001015			

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.000725 (J)	0.000787 (J)
9/26/2016					<0.001015	<0.001015
10/31/2016					<0.001015	<0.001015
1/9/2017					<0.001015	<0.001015
2/13/2017					<0.001015	<0.001015
4/3/2017					<0.001015	<0.001015
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
1/29/2018					<0.001015	<0.001015
5/10/2018					<0.001015	<0.001015
10/9/2018					<0.001015	<0.001015
4/22/2019						0.00126 (J)
4/29/2019					0.00118 (J)	
8/27/2019					<0.001015	<0.001015
3/3/2020					<0.001015	<0.001015
3/9/2020	<0.001015			0.00201 (J)		
3/10/2020		<0.001015				
10/13/2020		<0.001015			<0.001015	<0.001015
10/19/2020				0.0015 (J)		
10/21/2020	<0.001015					
10/27/2020			<0.001015			
4/21/2021	<0.001015		<0.001015			
5/3/2021				0.00123		
5/5/2021		<0.001015			<0.001015	<0.001015
9/7/2021		<0.001015			<0.001015	<0.001015
9/13/2021	<0.001015		<0.001015			
9/15/2021				0.00098 (J)		
3/8/2022		<0.001015				
3/9/2022	<0.001015					
3/16/2022			<0.001015		<0.001015	<0.001015
3/17/2022				0.00105		
9/14/2022			<0.001015			
9/19/2022	<0.001015	<0.001015			<0.001015	<0.001015
9/27/2022				0.0006 (J)		
4/18/2023		<0.001015		0.00079 (J)		
4/25/2023			<0.001015			
5/2/2023	<0.001015				<0.001015	<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.001015					
7/26/2016			<0.001015	<0.001015		
9/27/2016	<0.001015					
9/28/2016			<0.001015	<0.001015		
11/1/2016	<0.001015			<0.001015		
11/2/2016			<0.001015			
1/9/2017	<0.001015			<0.001015		
1/10/2017			<0.001015			
2/13/2017	<0.001015			<0.001015		
2/14/2017			<0.001015			
4/3/2017			<0.001015	<0.001015		
4/4/2017	<0.001015					
5/16/2017	<0.001015			<0.001015		
5/17/2017			<0.001015			
6/12/2017	<0.001015		<0.001015	<0.001015		
1/29/2018	<0.001015					
2/1/2018			<0.001015	<0.001015		
5/9/2018	<0.001015		<0.001015	<0.001015		
10/8/2018	<0.001015		<0.001015	<0.001015		
3/5/2019		0.000933 (J)			<0.001015	
4/23/2019			<0.001015	<0.001015		
4/29/2019	<0.001015					
8/27/2019	<0.001015	<0.001015				
8/28/2019			<0.001015	<0.001015	<0.001015	
3/2/2020			<0.001015			
3/3/2020				<0.001015	<0.001015	
3/4/2020	<0.001015	<0.001015				
10/14/2020	<0.001015	<0.001015				
10/19/2020					<0.001015	
10/20/2020				<0.001015		<0.001015
10/21/2020			<0.001015			
4/26/2021	<0.001015	<0.001015				
4/27/2021						<0.001015
4/28/2021				<0.001015	<0.001015	
5/3/2021			<0.001015			
9/1/2021	<0.001015	<0.001015		<0.001015		<0.001015
9/8/2021			<0.001015		<0.001015	
3/8/2022						<0.001015
3/14/2022			<0.001015			
3/15/2022	<0.001015	<0.001015				
3/16/2022				<0.001015	<0.001015	
9/20/2022			<0.001015			<0.001015
9/21/2022				<0.001015		
9/26/2022	<0.001015	<0.001015			<0.001015	
4/24/2023					<0.001015	<0.001015
4/25/2023			<0.001015	<0.001015		
5/2/2023	<0.001015	<0.001015				

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.001015
9/28/2016				<0.001015
11/2/2016				<0.001015
1/12/2017				0.000701 (J)
2/13/2017				0.00166 (J)
4/3/2017				0.0008 (J)
5/17/2017				0.000975 (J)
6/12/2017				0.00107 (J)
2/1/2018				<0.001015
5/9/2018				0.00103 (J)
10/8/2018				<0.001015
4/23/2019				0.0009 (J)
8/29/2019				<0.001015
3/2/2020				<0.001015
10/15/2020		<0.001015	<0.001015	
10/20/2020	<0.001015			
10/21/2020				<0.001015
4/27/2021	<0.001015	<0.001015	<0.001015	
5/3/2021				<0.001015
9/1/2021	<0.001015	<0.001015	<0.001015	
9/8/2021				<0.001015
3/8/2022	<0.001015	<0.001015	<0.001015	
3/14/2022				<0.001015
9/20/2022	<0.001015			<0.001015
9/21/2022		<0.001015	<0.001015	
4/24/2023	<0.001015			
4/25/2023				<0.001015
5/3/2023		<0.001015	<0.001015	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.0046 (J)	0.00272 (J)	<0.000203
8/2/2016	0.005					
8/3/2016			0.00214 (J)			
9/20/2016	0.005					
9/21/2016			0.00112 (J)			
9/26/2016				0.00317 (J)		
9/27/2016					0.00246 (J)	<0.000203
10/25/2016	0.005		0.005			
10/31/2016					0.00261 (J)	
11/1/2016						<0.000203
11/2/2016				0.00321 (J)		
12/13/2016	0.005		0.005			
1/11/2017				0.00286 (J)	0.00291 (J)	
1/12/2017						<0.000203
2/6/2017			0.00111 (J)			
2/8/2017	0.005					
2/13/2017				0.0024 (J)		<0.000203
2/14/2017					0.00272 (J)	
3/28/2017			0.00109 (J)			
3/29/2017	0.005					
4/3/2017				0.00232 (J)		
4/4/2017						<0.000203
4/6/2017					0.00235 (J)	
4/24/2017			0.005			
4/26/2017	0.005					
5/15/2017				0.00183 (J)		
5/16/2017						<0.000203
5/17/2017					0.00213 (J)	
6/7/2017	<0.005		<0.005			
6/13/2017					0.00218 (J)	
6/14/2017				0.00151 (J)		<0.000203
1/31/2018					0.00229 (J)	
2/1/2018				0.00284 (J)		<0.000203
2/19/2018			<0.005			
2/20/2018	<0.005					
5/8/2018						<0.000203
5/9/2018				0.00109 (J)		
5/10/2018					0.00215 (J)	
5/15/2018	<0.005		<0.005			
10/8/2018					0.00184 (J)	
10/9/2018				0.00174 (J)		<0.000203
10/16/2018			<0.005			
10/17/2018	<0.005					
2/20/2019		0.0011 (J)				
4/16/2019	<0.005		<0.005			
4/24/2019					0.00193 (J)	
5/1/2019				0.00229 (J)		<0.000203
8/27/2019				0.00211 (J)		
8/28/2019						<0.000203
8/29/2019					0.00177 (J)	
9/24/2019		0.00149 (J)	<0.005			
3/3/2020						<0.000203

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.0058	0.0018 (J)	
3/18/2020			<0.005			
3/25/2020	<0.005					
9/21/2020			<0.005			
9/23/2020	<0.005					
10/19/2020				0.00351 (J)	0.00186 (J)	
10/20/2020						<0.000203
2/2/2021	0.000243		0.000228			
4/20/2021				0.00225		
4/21/2021						8.14E-05 (J)
5/3/2021					0.00142	
8/2/2021	0.00013 (J)					
8/10/2021			0.00039			
9/8/2021				0.00219		
9/14/2021						8E-05 (J)
9/15/2021					0.0016	
2/14/2022	0.00047					
2/16/2022			0.00028			
3/15/2022				0.0021		
3/16/2022						0.00012 (J)
3/17/2022					0.061	
8/2/2022			0.00016 (J)			
8/9/2022	0.000807					
9/19/2022				0.00247		
9/20/2022						0.00012 (J)
9/26/2022					0.0323	
3/22/2023	0.000293					
3/27/2023			0.000162 (J)			
5/2/2023				0.00202		
5/3/2023					0.0241	<0.000203

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.005	0.00159 (J)
7/20/2016	0.00169 (J)					
9/26/2016					<0.005	<0.005
9/27/2016	0.00187 (J)					
10/31/2016					<0.005	<0.005
11/1/2016	0.00203 (J)					
1/9/2017					<0.005	<0.005
1/11/2017	0.00196 (J)					
2/14/2017					<0.005	<0.005
2/15/2017	0.00189 (J)					
4/3/2017						<0.005
4/4/2017	0.00186 (J)				<0.005	
5/15/2017	0.00167 (J)					
5/16/2017					<0.005	<0.005
6/12/2017					<0.005	<0.005
6/14/2017	0.00161 (J)					
1/30/2018	0.00189 (J)					
1/31/2018					<0.005	
2/1/2018						<0.005
5/7/2018					<0.005	<0.005
5/8/2018	0.00222 (J)					
10/8/2018	0.0024 (J)					
10/9/2018					<0.005	<0.005
4/24/2019					<0.005	<0.005
8/28/2019	0.00297 (J)				<0.005	<0.005
3/3/2020						<0.005
3/4/2020					<0.005	
3/10/2020	0.00353 (J)					
10/13/2020					<0.005	<0.005
10/19/2020	0.00463 (J)					
10/20/2020		<0.005	<0.005	<0.005		
4/21/2021		0.000396	0.00109	0.000288		0.000891
4/26/2021					0.000665	
5/5/2021	0.00514					
9/1/2021					0.00083	0.0009
9/7/2021	0.00507	0.00041	0.0013			
9/13/2021				0.00023		
3/8/2022						0.00073
3/9/2022		0.00066	0.00155	0.00019 (J)	0.00042	
3/17/2022	0.0078					
9/19/2022		0.000629	0.00187			
9/20/2022					0.00153	0.0031
9/26/2022	0.00709				0.000183 (J)	
4/18/2023		0.00066	0.00135			
4/19/2023					0.000728	0.000509
5/2/2023					0.000139 (J)	
5/3/2023	0.00828					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.00267 (J)		
9/28/2016				0.00163 (J)		
11/1/2016				0.00197 (J)		
1/11/2017				0.00168 (J)		
2/14/2017				0.00175 (J)		
4/4/2017				0.00148 (J)		
5/16/2017				0.00156 (J)		
6/14/2017				0.00154 (J)		
2/1/2018				0.0013 (J)		
5/9/2018				0.00121 (J)		
10/9/2018				0.00156 (J)		
3/6/2019	<0.000203	<0.005			<0.005	<0.005
5/1/2019				0.0039 (J)		
8/27/2019	<0.000203	<0.005		0.00194 (J)		
9/3/2019					0.00104 (J)	<0.005
3/3/2020				0.00238 (J)		
3/9/2020			0.00384 (J)			
3/10/2020	<0.000203	<0.005			<0.005	<0.005
10/13/2020	<0.000203	<0.005				
10/14/2020			0.00247 (J)			
10/19/2020					0.00105 (J)	<0.005
10/21/2020				0.00346 (J)		
4/20/2021			0.000986			
4/26/2021				0.00346		
4/28/2021					0.00106	
5/3/2021						0.00022
5/5/2021	0.00115	0.000269				
9/7/2021	0.00011 (J)					
9/8/2021					0.00094	0.00027
9/13/2021			0.00042			
9/14/2021		0.00024		0.0043		
3/8/2022	<0.000203	0.00028				
3/9/2022			0.00061		0.00087	0.0003
3/16/2022				0.00394		
9/14/2022	<0.000203		0.00101			
9/21/2022		0.000182 (J)			0.00089	0.000276
9/26/2022				0.00401		
4/19/2023	<0.000203				0.000878	0.000367
5/1/2023			0.000273			
5/2/2023		0.000179 (J)		0.00514		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.00106 (J)					
8/28/2019	0.00129 (J)					
3/9/2020	0.00472 (J)			<0.005		
10/13/2020	0.00366 (J)					
10/14/2020				0.00129 (J)	<0.005	0.0014 (J)
10/20/2020			0.00319 (J)			
10/26/2020		0.00188 (J)				
4/20/2021			0.00111	0.000373		
4/27/2021		0.00645				0.00164
4/28/2021	0.00292					
5/5/2021					0.000426	
6/16/2021		0.0047	0.00055	0.00068		0.0019
9/14/2021	0.001	0.00273				
9/15/2021			0.00047	0.00038	0.00052	0.00416
3/15/2022					0.00038	
3/16/2022			0.00026	0.00037		0.00449
3/17/2022	0.00137	0.00354				
9/14/2022					0.000219	0.00612
9/21/2022		0.00445	0.000184 (J)	0.000564		
9/26/2022	0.00117					
5/1/2023					0.000474	0.00459
5/2/2023	0.00323					
5/3/2023		0.00258	0.000154 (J)	0.000218		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.00362 (J)
3/9/2020		0.00423 (J)				
3/10/2020			0.00737		0.00312 (J)	
10/14/2020						0.0047 (J)
10/15/2020					0.00527	
10/19/2020		0.00281 (J)				
10/20/2020			0.00242 (J)			
10/26/2020	<0.005					
10/27/2020				0.00133 (J)		
4/20/2021		0.00173				
4/21/2021			0.000974			
4/27/2021				0.000721		
4/28/2021					0.000881	
5/3/2021	0.00031					0.00436
9/8/2021						0.00429
9/13/2021		0.00164	0.00049	0.00048		
9/14/2021	0.00027				0.00092	
3/9/2022					0.0008	
3/14/2022	0.00027	0.00135				0.00358
3/16/2022			0.0011	0.0004		
9/19/2022			0.000763			
9/20/2022		0.00201		0.00044		0.0048
9/21/2022	0.000147 (J)				0.00103	
4/19/2023		0.000934			0.00091	
4/24/2023				0.000636		
4/25/2023	0.000307					0.00425
4/26/2023			0.000359			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.0105	0.00172 (J)
9/26/2016					0.0106	0.00246 (J)
10/31/2016					0.0111	0.00224 (J)
1/9/2017					0.0119	0.00251 (J)
2/13/2017					0.0122	0.00179 (J)
4/3/2017					0.0115	0.00128 (J)
5/16/2017					0.0103	0.00124 (J)
6/12/2017					0.0108	0.0018 (J)
1/29/2018					0.0119	0.00264 (J)
5/10/2018					0.0111	0.00262 (J)
10/9/2018					0.01	0.00206 (J)
4/22/2019						0.00275 (J)
4/29/2019					0.0108	
8/27/2019					0.0111	0.00222 (J)
3/3/2020					0.0118	0.00199 (J)
3/9/2020	0.00719			0.0113		
3/10/2020		0.0139				
10/13/2020		0.0146			0.015	<0.005
10/19/2020				0.00192 (J)		
10/21/2020	<0.005					
10/27/2020			0.00333 (J)			
4/21/2021	0.0013		0.00666			
5/3/2021				0.00127		
5/5/2021		0.0117			0.0116	0.000735
9/7/2021		0.0129			0.011	0.00088
9/13/2021	0.00087		0.00601			
9/15/2021				0.00127		
3/8/2022		0.0118				
3/9/2022	0.00067					
3/16/2022			0.00633		0.0107	0.00074
3/17/2022				0.00148		
9/14/2022			0.00426			
9/19/2022	0.000502	0.0135			0.0128	0.000783
9/27/2022				0.000844		
4/18/2023		0.0112		0.00073		
4/25/2023			0.00204			
5/2/2023	0.00211				0.0126	0.00114

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.005					
7/26/2016			0.0112	<0.000203		
9/27/2016	<0.005					
9/28/2016			0.00955	<0.000203		
11/1/2016	<0.005			<0.000203		
11/2/2016			0.0129			
1/9/2017	<0.005			<0.000203		
1/10/2017			0.0135			
2/13/2017	<0.005			<0.000203		
2/14/2017			0.0141			
4/3/2017			0.0141	<0.000203		
4/4/2017	<0.005					
5/16/2017	<0.005			<0.000203		
5/17/2017			0.0138			
6/12/2017	<0.005		0.0118	<0.000203		
1/29/2018	<0.005					
2/1/2018			0.0142	<0.000203		
5/9/2018	<0.005		0.0114	<0.000203		
10/8/2018	<0.005		0.0109	<0.000203		
3/5/2019		0.00167 (J)			0.00146 (J)	
4/23/2019			0.0122	<0.000203		
4/29/2019	<0.005					
8/27/2019	<0.005	0.00149 (J)				
8/28/2019			0.0107	<0.000203	0.0151	
3/2/2020			0.0122			
3/3/2020				<0.000203	0.0236	
3/4/2020	<0.005	<0.005				
10/14/2020	<0.005	<0.005				
10/19/2020					0.00307 (J)	
10/20/2020				<0.000203		0.00547
10/21/2020			0.0145			
4/26/2021	0.000368	0.000554				
4/27/2021						0.00188
4/28/2021				0.000104 (J)	0.00239	
5/3/2021			0.0111			
9/1/2021	0.0004	0.00081		<0.000203		0.00098
9/8/2021			0.0112		0.0016	
3/8/2022						0.00061
3/14/2022			0.00987			
3/15/2022	0.0002 (J)	0.00165				
3/16/2022				0.00012 (J)	0.00161	
9/20/2022			0.00931			0.000694
9/21/2022				<0.000203		
9/26/2022	0.000331	0.00375			0.00139	
4/24/2023					0.0012	0.000465
4/25/2023			0.00879	<0.000203		
5/2/2023	0.000146 (J)	0.000706				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.00314 (J)
9/28/2016				0.00629
11/2/2016				0.00438 (J)
1/12/2017				0.0039 (J)
2/13/2017				0.00443 (J)
4/3/2017				0.00206 (J)
5/17/2017				0.00306 (J)
6/12/2017				0.00203 (J)
2/1/2018				0.00181 (J)
5/9/2018				0.00291 (J)
10/8/2018				0.00166 (J)
4/23/2019				<0.005
8/29/2019				0.00123 (J)
3/2/2020				0.0013 (J)
10/15/2020		<0.005	0.0016 (J)	
10/20/2020	0.00251 (J)			
10/21/2020				0.00137 (J)
4/27/2021	0.00254	0.000587	0.00112	
5/3/2021				0.000109 (J)
9/1/2021	0.0022	0.00056	0.0009	
9/8/2021				0.00021
3/8/2022	0.00177	0.00086	0.00079	
3/14/2022				9E-05 (J)
9/20/2022	0.00182			0.00031
9/21/2022		0.000632	0.000807	
4/24/2023	0.00156			
4/25/2023				0.000191 (J)
5/3/2023		0.000541	0.000634	

Time Series

Constituent: Barium (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.0656	0.0185	0.052
8/2/2016	0.184					
8/3/2016			0.0274			
9/20/2016	0.153					
9/21/2016			0.0811			
9/26/2016				0.041		
9/27/2016					0.0131	0.0398
10/25/2016	0.176		0.0576			
10/31/2016					0.0124	
11/1/2016						0.0375
11/2/2016				0.0578		
12/13/2016	0.184		0.0241			
1/11/2017				0.0603	0.0122	
1/12/2017						0.0291
2/6/2017			0.0747			
2/8/2017	0.189					
2/13/2017				0.0946		0.0329
2/14/2017					0.0151	
3/28/2017			0.0183			
3/29/2017	0.184					
4/3/2017				0.0996		
4/4/2017						0.0292
4/6/2017					0.0116	
4/24/2017			0.04			
4/26/2017	0.177					
5/15/2017				0.0753		
5/16/2017						0.0247
5/17/2017					0.0132	
6/7/2017	0.164		0.00769 (J)			
6/13/2017					0.0131	
6/14/2017				0.0821		0.0263
1/31/2018					0.0138	
2/1/2018				0.0814		0.0366
2/19/2018			0.00762 (J)			
2/20/2018	0.165					
5/8/2018						0.0347
5/9/2018				0.116		
5/10/2018					0.0142	
5/15/2018	0.172		0.00701 (J)			
10/8/2018					0.0126	
10/9/2018				0.0933		0.0322
10/16/2018			0.0094 (J)			
10/17/2018	0.165					
2/20/2019		0.191				
4/16/2019	0.16		0.00459 (J)			
4/24/2019					0.0154	
5/1/2019				0.0672		0.04
8/27/2019				0.0555		
8/28/2019						0.0387
8/29/2019					0.0185	
9/24/2019		0.208	0.0434			
3/3/2020						0.029

Time Series

Constituent: Barium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.0285	0.0175	
3/18/2020			0.00507 (J)			
3/25/2020	0.314					
9/21/2020			0.026			
9/23/2020	0.299					
10/19/2020				0.0295	0.0168	
10/20/2020						0.0414
2/2/2021	0.308		0.0068			
4/20/2021				0.0454		
4/21/2021						0.0401
5/3/2021					0.0147	
8/2/2021	0.353					
8/10/2021			0.00805			
9/8/2021				0.101		
9/14/2021						0.0392
9/15/2021					0.017	
2/14/2022	0.315					
2/16/2022			0.00763			
3/15/2022				0.12		
3/16/2022						0.031
3/17/2022					0.0106	
8/2/2022			0.0116			
8/9/2022	0.292					
9/19/2022				0.199		
9/20/2022						0.0318
9/26/2022					0.0169	
3/22/2023	0.289					
3/27/2023			0.00644			
5/2/2023				0.148		
5/3/2023					0.0162	0.0218

Time Series

Constituent: Barium (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					0.125	0.044
7/20/2016	0.0243					
9/26/2016					0.131	0.0367
9/27/2016	0.0273					
10/31/2016					0.101	0.0277
11/1/2016	0.0211					
1/9/2017					0.0952	0.0323
1/11/2017	0.0208					
2/14/2017					0.106	0.0391
2/15/2017	0.0227					
4/3/2017						0.0245
4/4/2017	0.021				0.0962	
5/15/2017	0.0229					
5/16/2017					0.1	0.0276
6/12/2017					0.08	0.0242
6/14/2017	0.0221					
1/30/2018	0.0224					
1/31/2018					0.07	
2/1/2018						0.0289
5/7/2018					0.071	0.0264
5/8/2018	0.0194					
10/8/2018	0.0167					
10/9/2018					0.0588	0.0271
4/24/2019					0.0765	0.0252
8/28/2019	0.0177				0.0424	0.0208
3/3/2020						0.03
3/4/2020					0.0544	
3/10/2020	0.015					
10/13/2020					0.0522	0.0322
10/19/2020	0.0157					
10/20/2020		0.144	0.0466	0.116		
4/21/2021		0.104	0.0286	0.0998		0.02
4/26/2021					0.0308	
5/5/2021	0.0136					
9/1/2021					0.0298	0.0243
9/7/2021	0.0191	0.0749	0.0277			
9/13/2021				0.104		
3/8/2022						0.0206
3/9/2022		0.0618	0.0216	0.101	0.0275	
3/17/2022	0.0149					
9/19/2022		0.0576	0.019			
9/20/2022					0.0414	0.0243
9/26/2022	0.019			0.1		
4/18/2023		0.0494	0.0163			
4/19/2023					0.0236	0.0189
5/2/2023				0.101		
5/3/2023	0.0176					

Time Series

Constituent: Barium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.0266		
9/28/2016				0.0246		
11/1/2016				0.0186		
1/11/2017				0.0157		
2/14/2017				0.0183		
4/4/2017				0.016		
5/16/2017				0.0162		
6/14/2017				0.016		
2/1/2018				0.016		
5/9/2018				0.0143		
10/9/2018				0.0136		
3/6/2019	0.65	0.0293			0.0486	0.0711
5/1/2019				0.0164		
8/27/2019	0.495	0.0361		0.0177		
9/3/2019					0.0361	0.0425
3/3/2020				0.0172		
3/9/2020			0.0752			
3/10/2020	0.425	0.0261			0.0267	0.0292
10/13/2020	0.444	0.0379				
10/14/2020			0.0769			
10/19/2020					0.0276	0.0283
10/21/2020				0.0185		
4/20/2021			0.0976			
4/26/2021				0.0167		
4/28/2021					0.025	
5/3/2021						0.027
5/5/2021	1.68	0.0484				
9/7/2021	0.511					
9/8/2021					0.028	0.0283
9/13/2021			0.0673			
9/14/2021		0.0301		0.0197		
3/8/2022	0.622	0.0258				
3/9/2022			0.0604		0.0245	0.0263
3/16/2022				0.0147		
9/14/2022	0.196		0.129			
9/21/2022		0.0452			0.0273	0.029
9/26/2022				0.0164		
4/19/2023	0.628				0.0411	0.0283
5/1/2023			0.122			
5/2/2023		0.0402		0.0175		

Time Series

Constituent: Barium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.0629					
8/28/2019	0.314					
3/9/2020	0.469			11		
10/13/2020	0.381					
10/14/2020				0.122	12.4	9.8 (RA)
10/20/2020			0.198			
10/26/2020		4.33				
4/20/2021			0.0624	0.0638		
4/27/2021		2.59				6.89 (RA)
4/28/2021	0.25					
5/5/2021					11.9	
6/16/2021		2.96	0.0602	0.074		6.51
9/14/2021	0.147	4.49				
9/15/2021			0.0489	0.0635	12.2	6.53
3/15/2022					11.7	
3/16/2022			0.0367	0.053		6.68
3/17/2022	0.142	2.95				
9/14/2022					12.4	5.09
9/21/2022		1.14	0.0502	0.0517		
9/26/2022	0.133					
5/1/2023					12.8	6.16
5/2/2023	0.189					
5/3/2023		0.183	0.036	0.0472		

Time Series

Constituent: Barium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.0326
3/9/2020		0.0658				
3/10/2020			0.0503		0.367	
10/14/2020						0.0381
10/15/2020					0.584	
10/19/2020		0.0429				
10/20/2020			0.0468			
10/26/2020	0.101					
10/27/2020				0.0585		
4/20/2021		0.0447				
4/21/2021			0.0266			
4/27/2021				0.045		
4/28/2021					0.522	
5/3/2021	0.0893					0.0324
9/8/2021						0.0369
9/13/2021		0.0484	0.0207	0.0443		
9/14/2021	0.091				0.585	
3/9/2022					0.492	
3/14/2022	0.0875	0.0452				0.0317
3/16/2022			0.0214	0.0361		
9/19/2022			0.0216			
9/20/2022		0.055		0.0376		0.0341
9/21/2022	0.0777				0.508	
4/19/2023		0.0436			0.401	
4/24/2023				0.035		
4/25/2023	0.095					0.0311
4/26/2023			0.0195			

Time Series

Constituent: Barium (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.032	0.083
9/26/2016					0.0222	0.0616
10/31/2016					0.0235	0.073
1/9/2017					0.0229	0.0791
2/13/2017					0.0259	0.101
4/3/2017					0.0244	0.109
5/16/2017					0.0229	0.108
6/12/2017					0.0246	0.0919
1/29/2018					0.0282	0.118
5/10/2018					0.0243	0.133
10/9/2018					0.0234	0.121
4/22/2019						0.447
4/29/2019					0.0404	
8/27/2019					0.0334	0.395
3/3/2020					0.0304	0.347
3/9/2020	0.088			0.112		
3/10/2020		0.0349				
10/13/2020		0.0315			0.0293	0.22
10/19/2020				0.11		
10/21/2020	0.0952					
10/27/2020			0.0347			
4/21/2021	0.0853		0.0467			
5/3/2021				0.101		
5/5/2021		0.0317			0.0247	0.149
9/7/2021		0.0289			0.0259	0.17
9/13/2021	0.0692		0.0518			
9/15/2021				0.11		
3/8/2022		0.0274				
3/9/2022	0.0615					
3/16/2022			0.0536		0.0247	0.149
3/17/2022				0.103		
9/14/2022			0.0366			
9/19/2022	0.0558	0.0275			0.0339	0.146
9/27/2022				0.105		
4/18/2023		0.0275		0.0938		
4/25/2023			0.0293			
5/2/2023	0.0437				0.0292	0.149

Time Series

Constituent: Barium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.0165					
7/26/2016			0.0158	0.0266		
9/27/2016	0.0139					
9/28/2016			0.0153	0.0261		
11/1/2016	0.0141			0.0265		
11/2/2016			0.0154			
1/9/2017	0.0144			0.0256		
1/10/2017			0.015			
2/13/2017	0.0145			0.0286		
2/14/2017			0.017			
4/3/2017			0.0148	0.0253		
4/4/2017	0.013					
5/16/2017	0.0121			0.0268		
5/17/2017			0.0149			
6/12/2017	0.0133		0.0154	0.026		
1/29/2018	0.0137					
2/1/2018			0.0162	0.0264		
5/9/2018	0.0142		0.0144	0.0242		
10/8/2018	0.0119		0.0149	0.023		
3/5/2019		0.0219			0.0355	
4/23/2019			0.0163	0.0256		
4/29/2019	0.0146					
8/27/2019	0.014	0.0187				
8/28/2019			0.0158	0.0269	0.0614	
3/2/2020			0.0155			
3/3/2020				0.0257	0.0275	
3/4/2020	0.0137	0.019				
10/14/2020	0.0127	0.0179				
10/19/2020					0.0597	
10/20/2020				0.0252		0.0331
10/21/2020			0.0173			
4/26/2021	0.0115	0.0182				
4/27/2021						0.0262
4/28/2021				0.0241	0.0259	
5/3/2021			0.015			
9/1/2021	0.0129	0.0177		0.0251		0.028
9/8/2021			0.0175		0.0331	
3/8/2022						0.0261
3/14/2022			0.0162			
3/15/2022	0.0137	0.0183				
3/16/2022				0.0228	0.0281	
9/20/2022			0.0171			0.0287
9/21/2022				0.0217		
9/26/2022	0.0165	0.0186			0.0343	
4/24/2023					0.0301	0.0277
4/25/2023			0.0182	0.0235		
5/2/2023	0.0178	0.0316				

Time Series

Constituent: Barium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.11
9/28/2016				0.0644
11/2/2016				0.0781
1/12/2017				0.0582
2/13/2017				0.0612
4/3/2017				0.166
5/17/2017				0.11
6/12/2017				0.127
2/1/2018				0.144
5/9/2018				0.131
10/8/2018				0.111
4/23/2019				0.176
8/29/2019				0.25
3/2/2020				0.165
10/15/2020		0.0408	0.0274	
10/20/2020	0.0466			
10/21/2020				0.166
4/27/2021	0.0421	0.0368	0.0184	
5/3/2021				0.248
9/1/2021	0.043	0.0394	0.0172	
9/8/2021				0.236
3/8/2022	0.0403	0.0393	0.0169	
3/14/2022				0.267
9/20/2022	0.0384			0.222
9/21/2022		0.0208	0.0186	
4/24/2023	0.0394			
4/25/2023				0.217
5/3/2023		0.0217	0.0209	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.001015	<0.001015	<0.001015
8/2/2016	0.003					
8/3/2016			0.003			
9/20/2016	0.003					
9/21/2016			0.003			
9/26/2016				<0.001015		
9/27/2016					<0.001015	<0.001015
10/25/2016	0.003		0.003			
10/31/2016					<0.001015	
11/1/2016						<0.001015
11/2/2016				<0.001015		
12/13/2016	0.003		0.003			
1/11/2017				<0.001015	<0.001015	
1/12/2017						<0.001015
2/6/2017			0.003			
2/8/2017	0.003					
2/13/2017				<0.001015		<0.001015
2/14/2017					<0.001015	
3/28/2017			0.003			
3/29/2017	0.003					
4/3/2017				<0.001015		
4/4/2017						<0.001015
4/6/2017					<0.001015	
4/24/2017			0.003			
4/26/2017	0.003					
5/15/2017				<0.001015		
5/16/2017						<0.001015
5/17/2017					<0.001015	
6/7/2017	<0.003		<0.001015			
6/13/2017					<0.001015	
6/14/2017				<0.001015		<0.001015
1/31/2018					<0.001015	
2/1/2018				<0.001015		<0.001015
2/19/2018			<0.001015			
2/20/2018	<0.003					
5/8/2018						<0.001015
5/9/2018				<0.001015		
5/10/2018					<0.001015	
5/15/2018	<0.003		<0.001015			
10/8/2018					<0.001015	
10/9/2018				<0.001015		<0.001015
10/16/2018			<0.001015			
10/17/2018	<0.003					
2/20/2019		<0.001015				
4/16/2019	<0.003		<0.001015			
4/24/2019					<0.001015	
5/1/2019				<0.001015		<0.001015
8/27/2019				<0.001015		
8/28/2019						<0.001015
8/29/2019					<0.001015	
9/24/2019		<0.001015	<0.001015			
3/3/2020						<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.001015	<0.001015	
3/18/2020			<0.001015			
3/25/2020	<0.001015					
9/21/2020			<0.001015			
9/23/2020	<0.001015					
10/19/2020				<0.001015	<0.001015	
10/20/2020						<0.001015
2/2/2021	<0.001015		<0.001015			
4/20/2021				<0.001015		
4/21/2021						<0.001015
5/3/2021					<0.001015	
8/2/2021	<0.001015					
8/10/2021			<0.001015			
9/8/2021				<0.001015		
9/14/2021						<0.001015
9/15/2021					<0.001015	
2/14/2022	<0.001015					
2/16/2022			<0.001015			
3/15/2022				<0.001015		
3/16/2022						<0.001015
3/17/2022					<0.001015	
8/2/2022			<0.001015			
8/9/2022	<0.001015					
9/19/2022				<0.001015		
9/20/2022						<0.001015
9/26/2022					<0.001015	
3/22/2023	<0.001015					
3/27/2023			<0.001015			
5/2/2023				<0.001015		
5/3/2023					<0.001015	<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.001015	<0.001015
7/20/2016	<0.001015					
9/26/2016					<0.001015	<0.001015
9/27/2016	<0.001015					
10/31/2016					<0.001015	<0.001015
11/1/2016	<0.001015					
1/9/2017					<0.001015	<0.001015
1/11/2017	<0.001015					
2/14/2017					<0.001015	<0.001015
2/15/2017	<0.001015					
4/3/2017						<0.001015
4/4/2017	<0.001015				<0.001015	
5/15/2017	<0.001015					
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
6/14/2017	<0.001015					
1/30/2018	<0.001015					
1/31/2018					<0.001015	
2/1/2018						<0.001015
5/7/2018					<0.001015	<0.001015
5/8/2018	<0.001015					
10/8/2018	<0.001015					
10/9/2018					<0.001015	<0.001015
4/24/2019					<0.001015	<0.001015
8/28/2019	<0.001015				<0.001015	<0.001015
3/3/2020						<0.001015
3/4/2020					<0.001015	
3/10/2020	<0.001015					
10/13/2020					<0.001015	<0.001015
10/19/2020	<0.001015					
10/20/2020		<0.001015	<0.001015	<0.001015		
4/21/2021		<0.001015	<0.001015	<0.001015		<0.001015
4/26/2021					<0.001015	
5/5/2021	<0.001015					
9/1/2021					<0.001015	<0.001015
9/7/2021	<0.001015	<0.001015	0.00166			
9/13/2021				<0.001015		
3/8/2022						<0.001015
3/9/2022		<0.001015	0.00171	<0.001015	<0.001015	
3/17/2022	<0.001015					
9/19/2022		<0.001015	0.00241			
9/20/2022					<0.001015	<0.001015
9/26/2022	<0.001015				<0.001015	
4/18/2023		<0.001015	0.00244			
4/19/2023					<0.001015	<0.001015
5/2/2023					<0.001015	
5/3/2023	<0.001015					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.001015		
9/28/2016				<0.001015		
11/1/2016				<0.001015		
1/11/2017				<0.001015		
2/14/2017				<0.001015		
4/4/2017				<0.001015		
5/16/2017				<0.001015		
6/14/2017				<0.001015		
2/1/2018				<0.001015		
5/9/2018				<0.001015		
10/9/2018				<0.001015		
3/6/2019	<0.001015	<0.001015			<0.001015	<0.001015
5/1/2019				<0.001015		
8/27/2019	<0.001015	<0.001015		<0.001015		
9/3/2019					<0.001015	<0.001015
3/3/2020				<0.001015		
3/9/2020			<0.001015			
3/10/2020	<0.001015	<0.001015			<0.001015	<0.001015
10/13/2020	<0.001015	<0.001015				
10/14/2020			<0.001015			
10/19/2020					<0.001015	<0.001015
10/21/2020				<0.001015		
4/20/2021			<0.001015			
4/26/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021						<0.001015
5/5/2021	0.000633 (J)	<0.001015				
9/7/2021	<0.001015					
9/8/2021					<0.001015	<0.001015
9/13/2021			<0.001015			
9/14/2021		<0.001015		<0.001015		
3/8/2022	<0.001015	<0.001015				
3/9/2022			<0.001015		<0.001015	<0.001015
3/16/2022				<0.001015		
9/14/2022	<0.001015		<0.001015			
9/21/2022		<0.001015			<0.001015	<0.001015
9/26/2022				<0.001015		
4/19/2023	<0.001015				<0.001015	<0.001015
5/1/2023			<0.001015			
5/2/2023		<0.001015		<0.001015		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.001015					
8/28/2019	<0.001015					
3/9/2020	<0.001015				<0.001015	
10/13/2020	<0.001015					
10/14/2020				<0.001015	<0.001015	<0.001015
10/20/2020			<0.001015			
10/26/2020	<0.001015					
4/20/2021			<0.001015	<0.001015		
4/27/2021	<0.001015					<0.001015
4/28/2021	<0.001015					
5/5/2021					<0.001015	
6/16/2021	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
9/14/2021	<0.001015	<0.001015				
9/15/2021			<0.001015	<0.001015	<0.001015	<0.001015
3/15/2022					<0.001015	
3/16/2022			<0.001015	<0.001015		<0.001015
3/17/2022	<0.001015	<0.001015				
9/14/2022					<0.001015	<0.001015
9/21/2022		<0.001015	<0.001015	<0.001015		
9/26/2022	<0.001015					
5/1/2023					<0.001015	<0.001015
5/2/2023	<0.001015					
5/3/2023		<0.001015	<0.001015	<0.001015		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.001015
3/9/2020		<0.001015				
3/10/2020			<0.001015		<0.001015	
10/14/2020						<0.001015
10/15/2020					<0.001015	
10/19/2020		<0.001015				
10/20/2020			<0.001015			
10/26/2020	<0.001015					
10/27/2020				<0.001015		
4/20/2021		<0.001015				
4/21/2021			<0.001015			
4/27/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021	<0.001015					<0.001015
9/8/2021						<0.001015
9/13/2021		<0.001015	<0.001015	<0.001015		
9/14/2021	<0.001015				<0.001015	
3/9/2022					<0.001015	
3/14/2022	<0.001015	<0.001015				<0.001015
3/16/2022			<0.001015	<0.001015		
9/19/2022			<0.001015			
9/20/2022		<0.001015		<0.001015		<0.001015
9/21/2022	<0.001015				<0.001015	
4/19/2023		<0.001015			<0.001015	
4/24/2023				<0.001015		
4/25/2023	<0.001015					<0.001015
4/26/2023			<0.001015			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.001015	<0.001015
9/26/2016					<0.001015	<0.001015
10/31/2016					<0.001015	<0.001015
1/9/2017					<0.001015	<0.001015
2/13/2017					<0.001015	<0.001015
4/3/2017					<0.001015	<0.001015
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
1/29/2018					<0.001015	<0.001015
5/10/2018					<0.001015	<0.001015
10/9/2018					<0.001015	<0.001015
4/22/2019						<0.001015
4/29/2019					<0.001015	
8/27/2019					<0.001015	<0.001015
3/3/2020					<0.001015	<0.001015
3/9/2020	<0.001015			<0.001015		
3/10/2020		<0.001015				
10/13/2020		<0.001015			<0.001015	<0.001015
10/19/2020				<0.001015		
10/21/2020	<0.001015					
10/27/2020			<0.001015			
4/21/2021	<0.001015		<0.001015			
5/3/2021				<0.001015		
5/5/2021		<0.001015			<0.001015	<0.001015
9/7/2021		<0.001015			<0.001015	<0.001015
9/13/2021	<0.001015		<0.001015			
9/15/2021				<0.001015		
3/8/2022		<0.001015				
3/9/2022	<0.001015					
3/16/2022			<0.001015		<0.001015	<0.001015
3/17/2022				<0.001015		
9/14/2022			<0.001015			
9/19/2022	<0.001015	<0.001015			<0.001015	<0.001015
9/27/2022				<0.001015		
4/18/2023		<0.001015		<0.001015		
4/25/2023			<0.001015			
5/2/2023	<0.001015				<0.001015	<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.001015					
7/26/2016			<0.001015	<0.001015		
9/27/2016	<0.001015					
9/28/2016			<0.001015	<0.001015		
11/1/2016	<0.001015			<0.001015		
11/2/2016			<0.001015			
1/9/2017	<0.001015			<0.001015		
1/10/2017			<0.001015			
2/13/2017	<0.001015			<0.001015		
2/14/2017			<0.001015			
4/3/2017			<0.001015	<0.001015		
4/4/2017	<0.001015					
5/16/2017	<0.001015			<0.001015		
5/17/2017			<0.001015			
6/12/2017	<0.001015		<0.001015	<0.001015		
1/29/2018	<0.001015					
2/1/2018			<0.001015	<0.001015		
5/9/2018	<0.001015		<0.001015	<0.001015		
10/8/2018	<0.001015		<0.001015	<0.001015		
3/5/2019		<0.001015			<0.001015	
4/23/2019			<0.001015	<0.001015		
4/29/2019	<0.001015					
8/27/2019	<0.001015	<0.001015				
8/28/2019			<0.001015	<0.001015	<0.001015	
3/2/2020			<0.001015			
3/3/2020				<0.001015	<0.001015	
3/4/2020	<0.001015	<0.001015				
10/14/2020	<0.001015	<0.001015				
10/19/2020					<0.001015	
10/20/2020				<0.001015		<0.001015
10/21/2020			<0.001015			
4/26/2021	<0.001015	<0.001015				
4/27/2021						<0.001015
4/28/2021				<0.001015	<0.001015	
5/3/2021			<0.001015			
9/1/2021	<0.001015	<0.001015		<0.001015		<0.001015
9/8/2021			<0.001015		<0.001015	
3/8/2022						<0.001015
3/14/2022			<0.001015			
3/15/2022	<0.001015	<0.001015				
3/16/2022				<0.001015	<0.001015	
9/20/2022			<0.001015			<0.001015
9/21/2022				<0.001015		
9/26/2022	<0.001015	<0.001015			<0.001015	
4/24/2023					<0.001015	<0.001015
4/25/2023			<0.001015	<0.001015		
5/2/2023	<0.001015	<0.001015				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.001015
9/28/2016				<0.001015
11/2/2016				<0.001015
1/12/2017				<0.001015
2/13/2017				<0.001015
4/3/2017				<0.001015
5/17/2017				<0.001015
6/12/2017				<0.001015
2/1/2018				<0.001015
5/9/2018				<0.001015
10/8/2018				<0.001015
4/23/2019				<0.001015
8/29/2019				<0.001015
3/2/2020				<0.001015
10/15/2020		<0.001015	<0.001015	
10/20/2020	<0.001015			
10/21/2020				<0.001015
4/27/2021	<0.001015	<0.001015	<0.001015	
5/3/2021				<0.001015
9/1/2021	<0.001015	<0.001015	<0.001015	
9/8/2021				<0.001015
3/8/2022	<0.001015	<0.001015	<0.001015	
3/14/2022				<0.001015
9/20/2022	<0.001015			<0.001015
9/21/2022		<0.001015	<0.001015	
4/24/2023	<0.001015			
4/25/2023				<0.001015
5/3/2023		<0.001015	<0.001015	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.0978 (J)	3.36	0.0282 (J)
8/2/2016	0.1					
8/3/2016			0.0239 (J)			
9/20/2016	0.1					
9/21/2016			0.1			
9/26/2016				0.0625 (J)		
9/27/2016					3.18	0.0253 (J)
10/25/2016	0.1		0.1			
10/31/2016					3.32	
11/1/2016						0.0266 (J)
11/2/2016				0.067 (J)		
12/13/2016	0.1		0.1			
1/11/2017				0.0588 (J)	3.05	
1/12/2017						0.0268 (J)
2/6/2017			0.1			
2/8/2017	0.1					
2/13/2017				0.0561 (J)		0.0263 (J)
2/14/2017					2.87	
3/28/2017			0.1			
3/29/2017	0.1					
4/3/2017				0.0631 (J)		
4/4/2017						0.0252 (J)
4/6/2017					2.87	
4/24/2017			0.1			
4/26/2017	0.1					
5/15/2017				0.0636 (J)		
5/16/2017						0.0319 (J)
5/17/2017					2.71	
6/7/2017	<0.1		<0.1015			
6/13/2017					2.67	
6/14/2017				0.0603 (J)		0.026 (J)
8/21/2017			<0.1015			
8/22/2017	<0.1					
9/19/2017				0.0559 (J)		0.0253 (J)
9/21/2017					3.08	
5/8/2018						<0.1015
5/9/2018				0.0437 (J)		
5/10/2018					3.04	
5/15/2018	<0.1		<0.1015			
10/8/2018					3.46	
10/9/2018				0.0559 (J)		0.0262 (J)
10/16/2018			<0.1015			
10/17/2018	<0.1					
2/20/2019		0.0337 (J)				
4/16/2019	<0.1		<0.1015			
4/24/2019					3.61	
5/1/2019				<0.203		<0.1015
8/27/2019				0.0869 (J)		
8/28/2019						<0.1015
8/29/2019					4.1	
9/24/2019		0.0532 (J)	<0.1015			
3/3/2020						0.0308 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.0747 (J)	4.7	
3/18/2020			<0.1015			
3/25/2020	0.0482 (J)					
9/21/2020			<0.1015			
9/23/2020	0.0478 (J)					
10/19/2020				0.0512 (J)	4.44	
10/20/2020						0.0357 (J)
2/2/2021	0.0396 (J)		<0.1015			
4/20/2021				0.0653 (J)		
4/21/2021						<0.1015
5/3/2021					4.45	
8/2/2021	0.0368 (J)					
8/10/2021			<0.1015			
9/8/2021				0.0505 (J)		
9/14/2021						<0.1015
9/15/2021					4.8	
2/14/2022	0.0386 (J)					
2/16/2022			<0.1015			
3/15/2022				0.0528 (J)		
3/16/2022						0.0357 (J)
3/17/2022					5.81	
8/2/2022			<0.1015			
8/9/2022	0.0418 (J)					
9/19/2022				0.0597 (J)		
9/20/2022						0.0457 (J)
9/26/2022					7.39	
3/22/2023	0.0379 (J)					
3/27/2023			<0.1015			
5/2/2023				0.0572 (J)		
5/3/2023					6.84	0.0402 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					0.15	2.86
7/20/2016	2.36					
9/26/2016					0.175	2.86
9/27/2016	2.14					
10/31/2016					0.204	3.25
11/1/2016	2.21					
1/9/2017					0.192	2.71
1/11/2017	2.04					
2/14/2017					0.161	2.39
2/15/2017	2.12					
4/3/2017						1.86
4/4/2017	2.51				0.147	
5/15/2017	2.54					
5/16/2017					0.168	2.67
6/12/2017					0.18	2.81
6/14/2017	2.83					
9/19/2017					0.192	3
9/21/2017	3.76					
5/7/2018					0.258	2.83
5/8/2018	5.61					
10/8/2018	6.35					
10/9/2018					0.237	2.85
4/24/2019					0.243	2.41
8/28/2019	7.06				0.863	3.18
3/3/2020						1.29
3/4/2020					0.285	
3/10/2020	7.52					
10/13/2020					0.375	2.62
10/19/2020	7.42					
10/20/2020		0.0304 (J)	0.0541 (J)	0.0773 (J)		
4/21/2021		0.0561 (J)	0.0404 (J)	0.101 (J)		2.63
4/26/2021					0.651	
5/5/2021	8.01					
9/1/2021					0.705	2.16
9/7/2021	7.19	0.0476 (J)	0.0429 (J)			
9/13/2021				0.0837 (J)		
3/8/2022						2.13
3/9/2022		0.0558 (J)	0.0421 (J)	0.081 (J)	0.445	
3/17/2022	7.07					
9/19/2022		0.0532 (J)	0.0418 (J)			
9/20/2022					1.78	2.77
9/26/2022	4.96			0.0756 (J)		
4/18/2023		0.0492 (J)	0.04 (J)			
4/19/2023					1.36	2.18
5/2/2023				0.0761 (J)		
5/3/2023	5.38					

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.0922 (J)		
9/28/2016				0.126		
11/1/2016				0.0959 (J)		
1/11/2017				0.0976 (J)		
2/14/2017				0.147		
4/4/2017				0.121		
5/16/2017				0.167		
6/14/2017				0.159		
9/20/2017				0.148		
5/9/2018				0.145		
10/9/2018				0.15		
3/6/2019	0.0571 (J)	0.178			0.699	0.641
5/1/2019				0.24		
8/27/2019	0.0898 (J)	0.299		0.192		
9/3/2019					0.751	0.61
3/3/2020				0.167		
3/9/2020			0.132			
3/10/2020	0.0538 (J)	0.151			0.759	0.633
10/13/2020	0.0857 (J)	0.302				
10/14/2020			0.167			
10/19/2020					0.724	0.615
10/21/2020				0.316		
4/20/2021			0.193			
4/26/2021				0.173		
4/28/2021					0.735	
5/3/2021						0.562
5/5/2021	0.145	0.237				
9/7/2021	0.0842 (J)					
9/8/2021					0.741	0.557
9/13/2021			0.159			
9/14/2021		0.289		0.188		
3/8/2022	0.0797 (J)	0.194				
3/9/2022			0.158		0.759	0.491
3/16/2022				0.165		
9/14/2022	0.108		0.161			
9/21/2022		0.257			0.756	0.4
9/26/2022				0.153		
4/19/2023	0.0834 (J)				0.864	0.384
5/1/2023			0.162			
5/2/2023		0.172		0.216		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.0619 (J)					
8/28/2019	0.0879 (J)					
3/9/2020	0.101			0.756		
10/13/2020	0.0973 (J)					
10/14/2020			0.134	0.762	0.706	
10/20/2020		0.173				
10/26/2020	0.149					
4/20/2021		0.135	0.0628 (J)			
4/27/2021	0.17				0.694	
4/28/2021	0.0976 (J)					
5/5/2021				0.765		
6/16/2021	0.171	0.134	0.0677 (J)		0.697	
9/14/2021	0.0892 (J)	0.153				
9/15/2021		0.122	0.062 (J)	0.736	0.673	
3/15/2022				0.709		
3/16/2022		0.121	0.0672 (J)		0.668	
3/17/2022	0.089 (J)	0.153				
9/14/2022				0.714	0.633	
9/21/2022	0.157	0.114	0.0663 (J)			
9/26/2022	0.0869 (J)					
5/1/2023				0.726	0.659	
5/2/2023	0.0986 (J)					
5/3/2023	0.118	0.12	0.0685 (J)			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.608
3/9/2020		0.119				
3/10/2020			0.0912 (J)		<0.1015	
10/14/2020						0.738
10/15/2020					<0.1015	
10/19/2020		0.608				
10/20/2020			0.0673 (J)			
10/26/2020	<0.1015					
10/27/2020				0.0341 (J)		
4/20/2021		0.212				
4/21/2021			0.0481 (J)			
4/27/2021				0.0315 (J)		
4/28/2021					<0.1015	
5/3/2021	<0.1015					0.695
9/8/2021						0.776
9/13/2021		0.289	0.0312 (J)	0.0315 (J)		
9/14/2021	<0.1015				<0.1015	
3/9/2022					<0.1015	
3/14/2022	<0.1015	0.292				0.715
3/16/2022			0.0394 (J)	0.0311 (J)		
9/19/2022			0.0334 (J)			
9/20/2022		0.261		0.0368 (J)		0.92
9/21/2022	<0.1015				<0.1015	
4/19/2023		0.227			<0.1015	
4/24/2023				0.0323 (J)		
4/25/2023	<0.1015					0.851
4/26/2023			<0.1015			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.527	0.195
9/26/2016					0.54	0.179
10/31/2016					0.586	0.19
1/9/2017					0.584	0.196
2/13/2017					0.567	0.187
4/3/2017					0.527	0.192
5/16/2017					0.477	0.178
6/12/2017					0.491	0.181
9/20/2017					0.505	0.188
5/10/2018					0.425	0.183
10/9/2018					0.471	0.202
4/22/2019						0.183 (J)
4/29/2019					0.407	
8/27/2019					0.443	0.209
3/3/2020					0.422	0.217
3/9/2020	0.148			0.0385 (J)		
3/10/2020		<0.1015				
10/13/2020		<0.1015			0.492	0.271
10/19/2020				<0.1015		
10/21/2020	0.16					
10/27/2020			0.0966 (J)			
4/21/2021	0.178		0.115			
5/3/2021				<0.1015		
5/5/2021		<0.1015			0.451	0.281
9/7/2021		<0.1015			0.499	0.276
9/13/2021	0.144		0.122			
9/15/2021				<0.1015		
3/8/2022		<0.1015				
3/9/2022	0.107					
3/16/2022			0.132		0.428	0.276
3/17/2022				<0.1015		
9/14/2022			0.112			
9/19/2022	0.12	<0.1015			0.389	0.272
9/27/2022				<0.1015		
4/18/2023		<0.1015		<0.1015		
4/25/2023			0.0994 (J)			
5/2/2023	0.127				0.324	0.245

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.496					
7/26/2016			0.873	0.835		
9/27/2016	0.514					
9/28/2016			0.857	0.807		
11/1/2016	0.571			0.838		
11/2/2016			0.909			
1/9/2017	0.572			0.848		
1/10/2017			0.915			
2/13/2017	0.565			0.869		
2/14/2017			0.932			
4/3/2017			0.932	0.881		
4/4/2017	0.536					
5/16/2017	0.482			0.81		
5/17/2017			0.953			
6/12/2017	0.478		0.854	0.832		
9/18/2017			0.921	0.864		
9/20/2017	0.506					
5/9/2018	0.433		0.851	0.878		
10/8/2018	0.503		0.833	0.905		
3/5/2019		0.357			0.753	
4/23/2019			0.849	0.862		
4/29/2019	0.444					
8/27/2019	0.495	0.51				
8/28/2019			0.852	0.906	0.379	
3/2/2020			0.851			
3/3/2020				0.895	0.431	
3/4/2020	0.431	0.303				
10/14/2020	0.46	0.483				
10/19/2020					0.437	
10/20/2020				0.947		0.745
10/21/2020			0.847			
4/26/2021	0.412	0.382				
4/27/2021						0.758
4/28/2021				0.923	0.472	
5/3/2021			0.864			
9/1/2021	0.46	0.452		0.918		0.768
9/8/2021			0.843		0.561	
3/8/2022						0.759
3/14/2022			0.864			
3/15/2022	0.423	0.642				
3/16/2022				0.887	0.499	
9/20/2022			0.915			0.767
9/21/2022				0.851		
9/26/2022	0.36	0.855			0.455	
4/24/2023					0.35	0.746
4/25/2023			0.961	0.865		
5/2/2023	0.382	0.33				

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.434
9/28/2016				0.454
11/2/2016				0.46
1/12/2017				0.471
2/13/2017				0.473
4/3/2017				0.424
5/17/2017				0.462
6/12/2017				0.418
9/18/2017				0.428
5/9/2018				0.406
10/8/2018				0.42
4/23/2019				0.372
8/29/2019				0.319
3/2/2020				0.328
10/15/2020		<0.1015	0.11	
10/20/2020	0.726			
10/21/2020				0.328
4/27/2021	0.708	<0.1015	0.138	
5/3/2021				0.271
9/1/2021	0.72	<0.1015	0.144	
9/8/2021				0.271
3/8/2022	0.711	<0.1015	0.117	
3/14/2022				0.245
9/20/2022	0.695			0.251
9/21/2022		0.24	0.0905 (J)	
4/24/2023	0.672			
4/25/2023				0.249
5/3/2023		0.272	0.111	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.000203	<0.000203	<0.000203
8/2/2016	0.001					
8/3/2016			0.001			
9/20/2016	0.001					
9/21/2016			0.001			
9/26/2016				<0.000203		
9/27/2016					<0.000203	<0.000203
10/25/2016	0.001		0.001			
10/31/2016					<0.000203	
11/1/2016						<0.000203
11/2/2016				<0.000203		
12/13/2016	0.001		0.001			
1/11/2017				<0.000203	<0.000203	
1/12/2017						<0.000203
2/6/2017			0.001			
2/8/2017	0.001					
2/13/2017				<0.000203		<0.000203
2/14/2017					<0.000203	
3/28/2017			0.001			
3/29/2017	0.001					
4/3/2017				<0.000203		
4/4/2017						<0.000203
4/6/2017					<0.000203	
4/24/2017			0.001			
4/26/2017	0.001					
5/15/2017				<0.000203		
5/16/2017						<0.000203
5/17/2017					<0.000203	
6/7/2017	<0.001		<0.000203			
6/13/2017					<0.000203	
6/14/2017				<0.000203		<0.000203
1/31/2018					<0.000203	
2/1/2018				0.000372 (J)		<0.000203
2/19/2018			<0.000203			
2/20/2018	<0.001					
5/8/2018						<0.000203
5/9/2018				<0.000203		
5/10/2018					<0.000203	
5/15/2018	<0.001		<0.000203			
10/8/2018					<0.000203	
10/9/2018				<0.000203		<0.000203
10/16/2018			<0.000203			
10/17/2018	<0.001					
2/20/2019		<0.000203				
4/16/2019	<0.001		<0.000203			
4/24/2019					<0.000203	
5/1/2019				<0.000203		<0.000203
8/27/2019				<0.000203		
8/28/2019						<0.000203
8/29/2019					<0.000203	
9/24/2019		<0.000203	<0.000203			
3/3/2020						<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/27/2023 8:43 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.000203	<0.000203	
3/18/2020			<0.000203			
3/25/2020	<0.000203					
9/21/2020			<0.000203			
9/23/2020	<0.000203					
10/19/2020				<0.000203	<0.000203	
10/20/2020						<0.000203
2/2/2021	<0.000203		<0.000203			
4/20/2021				<0.000203		
4/21/2021						<0.000203
5/3/2021					<0.000203	
8/2/2021	<0.000203					
8/10/2021			<0.000203			
9/8/2021				<0.000203		
9/14/2021						<0.000203
9/15/2021					<0.000203	
2/14/2022	<0.000203					
2/16/2022			<0.000203			
3/15/2022				<0.000203		
3/16/2022						<0.000203
3/17/2022					9E-05 (J)	
8/2/2022			<0.000203			
8/9/2022	<0.000203					
9/19/2022				<0.000203		
9/20/2022						<0.000203
9/26/2022					9.8E-05 (J)	
3/22/2023	<0.000203					
3/27/2023			<0.000203			
5/2/2023				<0.000203		
5/3/2023					<0.000203	<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.000203	0.000222 (J)
7/20/2016	<0.000203					
9/26/2016					<0.000203	0.000208 (J)
9/27/2016	<0.000203					
10/31/2016					<0.000203	<0.000203
11/1/2016	<0.000203					
1/9/2017					<0.000203	<0.000203
1/11/2017	<0.000203					
2/14/2017					<0.000203	<0.000203
2/15/2017	<0.000203					
4/3/2017						<0.000203
4/4/2017	<0.000203				<0.000203	
5/15/2017	<0.000203					
5/16/2017					<0.000203	<0.000203
6/12/2017					<0.000203	<0.000203
6/14/2017	<0.000203					
1/30/2018	<0.000203					
1/31/2018					<0.000203	
2/1/2018						<0.000203
5/7/2018					<0.000203	<0.000203
5/8/2018	<0.000203					
10/8/2018	<0.000203					
10/9/2018					<0.000203	<0.000203
4/24/2019					<0.000203	<0.000203
8/28/2019	<0.000203				<0.000203	<0.000203
3/3/2020						<0.000203
3/4/2020					<0.000203	
3/10/2020	<0.000203					
10/13/2020					<0.000203	<0.000203
10/19/2020	<0.000203					
10/20/2020		<0.000203	<0.0002	<0.000203		
4/21/2021		<0.000203	<0.0002	<0.000203		<0.000203
4/26/2021					<0.000203	
5/5/2021	9.27E-05 (J)					
9/1/2021					<0.000203	<0.000203
9/7/2021	0.00012 (J)	<0.000203	<0.0002			
9/13/2021				<0.000203		
3/8/2022						<0.000203
3/9/2022		<0.000203	0.0001 (J)	<0.000203	<0.000203	
3/17/2022	0.00016 (J)					
9/19/2022		<0.000203	0.000378			
9/20/2022					<0.000203	<0.000203
9/26/2022	<0.000203				<0.000203	
4/18/2023		<0.000203	0.000563			
4/19/2023					<0.000203	<0.000203
5/2/2023				<0.000203		
5/3/2023	<0.000203					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.000203		
9/28/2016				0.000219 (J)		
11/1/2016				<0.000203		
1/11/2017				<0.000203		
2/14/2017				<0.000203		
4/4/2017				<0.000203		
5/16/2017				<0.000203		
6/14/2017				<0.000203		
2/1/2018				<0.000203		
5/9/2018				<0.000203		
10/9/2018				<0.000203		
3/6/2019	<0.000203	<0.000203			<0.000203	<0.000203
5/1/2019				<0.000203		
8/27/2019	<0.000203	<0.000203		<0.000203		
9/3/2019					<0.000203	<0.000203
3/3/2020				<0.000203		
3/9/2020			<0.000203			
3/10/2020	<0.000203	<0.000203			<0.000203	<0.000203
10/13/2020	<0.000203	<0.000203				
10/14/2020			<0.000203			
10/19/2020					<0.000203	<0.000203
10/21/2020				<0.000203		
4/20/2021			<0.000203			
4/26/2021				<0.000203		
4/28/2021					<0.000203	
5/3/2021						<0.000203
5/5/2021	<0.000203	<0.000203				
9/7/2021	<0.000203					
9/8/2021					<0.000203	<0.000203
9/13/2021			<0.000203			
9/14/2021		<0.000203		<0.000203		
3/8/2022	<0.000203	<0.000203				
3/9/2022			<0.000203		<0.000203	<0.000203
3/16/2022				<0.000203		
9/14/2022	<0.000203		<0.000203			
9/21/2022		<0.000203			<0.000203	<0.000203
9/26/2022				<0.000203		
4/19/2023	<0.000203				<0.000203	<0.000203
5/1/2023			<0.000203			
5/2/2023		<0.000203		<0.000203		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.000203					
8/28/2019	<0.000203					
3/9/2020	<0.000203				<0.000203	
10/13/2020	<0.000203					
10/14/2020				<0.000203	<0.000203	<0.000203
10/20/2020			<0.000203			
10/26/2020	<0.000203					
4/20/2021			<0.000203	<0.000203		
4/27/2021	<0.000203					<0.000203
4/28/2021	<0.000203					
5/5/2021					<0.000203	
6/16/2021	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
9/14/2021	<0.000203	<0.000203				
9/15/2021			<0.000203	<0.000203	<0.000203	<0.000203
3/15/2022					<0.000203	
3/16/2022			<0.000203	<0.000203		<0.000203
3/17/2022	<0.000203	<0.000203				
9/14/2022					<0.000203	<0.000203
9/21/2022		<0.000203	<0.000203	<0.000203		
9/26/2022	<0.000203					
5/1/2023					<0.000203	<0.000203
5/2/2023	<0.000203					
5/3/2023		<0.000203	<0.000203	<0.000203		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/27/2023 8:43 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.000203
3/9/2020		<0.000203				
3/10/2020			<0.000203		<0.000203	
10/14/2020						<0.000203
10/15/2020					<0.000203	
10/19/2020		<0.000203				
10/20/2020			<0.000203			
10/26/2020	<0.000203					
10/27/2020				<0.000203		
4/20/2021		<0.000203				
4/21/2021			<0.000203			
4/27/2021				<0.000203		
4/28/2021					<0.000203	
5/3/2021	<0.000203					<0.000203
9/8/2021						<0.000203
9/13/2021		<0.000203	<0.000203	<0.000203		
9/14/2021	<0.000203				<0.000203	
3/9/2022					<0.000203	
3/14/2022	<0.000203	<0.000203				<0.000203
3/16/2022			<0.000203	<0.000203		
9/19/2022			<0.000203			
9/20/2022		<0.000203		<0.000203		<0.000203
9/21/2022	<0.000203				<0.000203	
4/19/2023		<0.000203			<0.000203	
4/24/2023				<0.000203		
4/25/2023	<0.000203					<0.000203
4/26/2023			<0.000203			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.000203	<0.000203
9/26/2016					<0.000203	<0.000203
10/31/2016					<0.000203	<0.000203
1/9/2017					<0.000203	<0.000203
2/13/2017					<0.000203	<0.000203
4/3/2017					<0.000203	<0.000203
5/16/2017					<0.000203	<0.000203
6/12/2017					<0.000203	<0.000203
1/29/2018					<0.000203	<0.000203
5/10/2018					<0.000203	<0.000203
10/9/2018					<0.000203	<0.000203
4/22/2019						<0.000203
4/29/2019					<0.000203	
8/27/2019					<0.000203	<0.000203
3/3/2020					<0.000203	<0.000203
3/9/2020	<0.000203			<0.000203		
3/10/2020		<0.000203				
10/13/2020		<0.000203			<0.000203	<0.000203
10/19/2020				<0.000203		
10/21/2020	<0.000203					
10/27/2020			<0.000203			
4/21/2021	<0.000203		<0.000203			
5/3/2021				<0.000203		
5/5/2021		<0.000203			<0.000203	<0.000203
9/7/2021		<0.000203			<0.000203	<0.000203
9/13/2021	<0.000203		<0.000203			
9/15/2021				<0.000203		
3/8/2022		<0.000203				
3/9/2022	<0.000203					
3/16/2022			<0.000203		<0.000203	<0.000203
3/17/2022				<0.000203		
9/14/2022			<0.000203			
9/19/2022	<0.000203	<0.000203			<0.000203	<0.000203
9/27/2022				<0.000203		
4/18/2023		<0.000203		<0.000203		
4/25/2023			<0.000203			
5/2/2023	<0.000203				<0.000203	<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.000302 (J)					
7/26/2016			<0.000203	<0.000203		
9/27/2016	0.00021 (J)					
9/28/2016			<0.000203	<0.000203		
11/1/2016	0.000239 (J)			<0.000203		
11/2/2016			<0.000203			
1/9/2017	0.000248 (J)			<0.000203		
1/10/2017			<0.000203			
2/13/2017	0.00031 (J)			<0.000203		
2/14/2017			<0.000203			
4/3/2017			<0.000203	<0.000203		
4/4/2017	0.000241 (J)					
5/16/2017	0.000266 (J)			<0.000203		
5/17/2017			<0.000203			
6/12/2017	0.000272 (J)		<0.000203	<0.000203		
1/29/2018	<0.000203					
2/1/2018			<0.000203	<0.000203		
5/9/2018	<0.000203		<0.000203	<0.000203		
10/8/2018	<0.000203		<0.000203	<0.000203		
3/5/2019		<0.000203			<0.000203	
4/23/2019			<0.000203	<0.000203		
4/29/2019	<0.000203					
8/27/2019	<0.000203	<0.000203				
8/28/2019			<0.000203	<0.000203	<0.000203	
3/2/2020			<0.000203			
3/3/2020				<0.000203	<0.000203	
3/4/2020	<0.000203	<0.000203				
10/14/2020	<0.000203	<0.000203				
10/19/2020					<0.000203	
10/20/2020				<0.000203		<0.000203
10/21/2020			<0.000203			
4/26/2021	7.3E-05 (J)	<0.000203				
4/27/2021						<0.000203
4/28/2021				<0.000203	<0.000203	
5/3/2021			<0.000203			
9/1/2021	8E-05 (J)	<0.000203		<0.000203		<0.000203
9/8/2021			<0.000203		<0.000203	
3/8/2022						<0.000203
3/14/2022			<0.000203			
3/15/2022	<0.000203	<0.000203				
3/16/2022				<0.000203	<0.000203	
9/20/2022			<0.000203			<0.000203
9/21/2022				<0.000203		
9/26/2022	<0.000203	<0.000203			<0.000203	
4/24/2023					<0.000203	<0.000203
4/25/2023			<0.000203	<0.000203		
5/2/2023	<0.000203	<0.000203				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.000203
9/28/2016				<0.000203
11/2/2016				<0.000203
1/12/2017				<0.000203
2/13/2017				<0.000203
4/3/2017				<0.000203
5/17/2017				<0.000203
6/12/2017				<0.000203
2/1/2018				<0.000203
5/9/2018				<0.000203
10/8/2018				<0.000203
4/23/2019				<0.000203
8/29/2019				<0.000203
3/2/2020				<0.000203
10/15/2020		<0.000203	<0.000203	
10/20/2020	<0.000203			
10/21/2020				<0.000203
4/27/2021	<0.000203	<0.000203	<0.000203	
5/3/2021				<0.000203
9/1/2021	<0.000203	<0.000203	<0.000203	
9/8/2021				<0.000203
3/8/2022	<0.000203	<0.000203	<0.000203	
3/14/2022				<0.000203
9/20/2022	<0.000203			<0.000203
9/21/2022		<0.000203	<0.000203	
4/24/2023	<0.000203			
4/25/2023				<0.000203
5/3/2023		<0.000203	<0.000203	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				153	132	164
8/2/2016	47.2					
8/3/2016			6.85			
9/20/2016	46.3					
9/21/2016			11.7			
9/26/2016				122		
9/27/2016					127	164
10/25/2016	46.6		10.8			
10/31/2016					122	
11/1/2016						158
11/2/2016				114		
12/13/2016	43.1		5.86			
1/11/2017				112	124	
1/12/2017						163
2/6/2017			9.76			
2/8/2017	47.5					
2/13/2017				132		166
2/14/2017					125	
3/28/2017			5.28			
3/29/2017	46.8					
4/3/2017				168		
4/4/2017						166
4/6/2017					125	
4/24/2017			6.89			
4/26/2017	48.1					
5/15/2017				104		
5/16/2017						160
5/17/2017					124	
6/7/2017	44.4		3.58			
6/13/2017					129	
6/14/2017				122		166
8/21/2017			3.38			
8/22/2017	42.9					
9/19/2017				98.6		165
9/21/2017					133	
3/27/2018				105		166
3/28/2018					143	
5/8/2018						132
5/9/2018				141		
5/10/2018					132	
5/15/2018	44.3		4.25			
10/8/2018					164	
10/9/2018				94.1		121
10/16/2018			3.21			
10/17/2018	41.8					
2/20/2019		30.6				
4/16/2019	38.6		4.43			
4/24/2019					201	
5/1/2019				47.9		136
8/27/2019				165		
8/28/2019						138
8/29/2019					178	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
9/24/2019	29.7		7.24			
3/3/2020						179
3/9/2020				126	222	
3/18/2020			4.51			
3/25/2020	31.1					
9/21/2020			5.19			
9/23/2020	29.3					
10/19/2020				32.6	149	
10/20/2020						151
2/2/2021	31.8		4.35			
4/20/2021				36.2		
4/21/2021						148
5/3/2021					165	
8/2/2021	33					
8/10/2021			4.47			
9/8/2021				78.8		
9/14/2021						147
9/15/2021					152	
2/14/2022	30.1					
2/16/2022			4.42			
3/15/2022				98.1		
3/16/2022						173
3/17/2022					76.4	
8/2/2022			5.28			
8/9/2022	31.4					
9/19/2022				182		
9/20/2022						209
9/26/2022					184	
3/22/2023	29.6					
3/27/2023			4.77			
5/2/2023				130		
5/3/2023					118	231

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					37	185
7/20/2016	178					
9/26/2016					37.5	189
9/27/2016	165					
10/31/2016					38.4	163
11/1/2016	160					
1/9/2017					37.8	214
1/11/2017	170					
2/14/2017					39.2	237
2/15/2017	173					
4/3/2017						159
4/4/2017	167				37.5	
5/15/2017	169					
5/16/2017					40.4	154
6/12/2017					38.4	146
6/14/2017	177					
9/19/2017					37.8	136
9/21/2017	171					
3/28/2018	177				37.7	136
5/7/2018					38.4	129
5/8/2018	173					
10/8/2018	174					
10/9/2018					38.2	211
4/24/2019					39	139
8/28/2019	152				53.8	99.5
3/3/2020						66.8
3/4/2020					39.3	
3/10/2020	138					
10/13/2020					41.4	96.9
10/19/2020	115					
10/20/2020		46.7	35.9	36.4		
4/21/2021		63.9	98.6	35.7		99.3
4/26/2021					48.3 (RA)	
5/5/2021	107 (RA)					
9/1/2021					47.8	130
9/7/2021	128	64.9	105			
9/13/2021				38		
3/8/2022						154
3/9/2022		73	96.8	36.6	39.1	
3/17/2022	102					
9/19/2022		77.5	81.400002			
9/20/2022					84.599998	142
9/26/2022	80.699997			37.5		
4/18/2023		67.900002	65			
4/19/2023					66.400002	158
5/2/2023				47.5		
5/3/2023	30.299999					

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				209		
9/28/2016				240		
11/1/2016				213		
1/11/2017				218		
2/14/2017				244		
4/4/2017				234		
5/16/2017				241		
6/14/2017				241		
9/20/2017				235		
3/27/2018				250		
5/9/2018				246		
10/9/2018				272		
3/6/2019	47	4.86			266	179
5/1/2019				272		
8/27/2019	48.3	16		251		
9/3/2019					240	161
3/3/2020				278		
3/9/2020			5.28			
3/10/2020	50.6	2.15			226	157
10/13/2020	44.6	17.7				
10/14/2020			8			
10/19/2020					201	145
10/21/2020				212		
4/20/2021			10.1			
4/26/2021				252		
4/28/2021					191	
5/3/2021						133
5/5/2021	43.7	12.5				
9/7/2021	43.2					
9/8/2021					207	130
9/13/2021			6			
9/14/2021		15.1		226		
3/8/2022	41.7	3.72				
3/9/2022			8.95		191	115
3/16/2022				239		
9/14/2022	37.599998		23.799999			
9/21/2022		8.78			247	130
9/26/2022				208		
4/19/2023	40.799999				197	79.699997
5/1/2023			14.2			
5/2/2023		3.04		251		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	60.1					
8/28/2019	63.5					
3/9/2020	52.4			128		
10/13/2020	51.7					
10/14/2020				46.6	123	118
10/20/2020			8.61			
10/26/2020		49.7				
4/20/2021			3.66	79		
4/27/2021		58.1				125
4/28/2021	55.5					
5/5/2021					134	
6/16/2021		64.5	3.4	97.6		138
9/14/2021	56.7	64.2				
9/15/2021			2.74	97.9	128	129
3/15/2022					117	
3/16/2022			2.66	97.5		128
3/17/2022	54.6	71.2				
9/14/2022					147	131
9/21/2022		66.900002	2.98	127		
9/26/2022	63.799999					
5/1/2023					143	138
5/2/2023	58					
5/3/2023		30.6	2.61	125		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						214
3/9/2020		56.9				
3/10/2020			207		51.1	
10/14/2020						244
10/15/2020					49.5	
10/19/2020		63.6				
10/20/2020			228			
10/26/2020	47.2					
10/27/2020				130		
4/20/2021		49.8				
4/21/2021			229			
4/27/2021				131		
4/28/2021					58.5	
5/3/2021	48.8					248
9/8/2021						258
9/13/2021		58.3	223	130		
9/14/2021	47.2				58.7	
3/9/2022					53.6	
3/14/2022	44.5	50.6				225
3/16/2022			198	129		
9/19/2022			241			
9/20/2022		59		155		280
9/21/2022	51.400002				71.400002	
4/19/2023		46.5			56.599998	
4/24/2023				125		
4/25/2023	54.599998					220
4/26/2023			206			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					296	5.63
9/26/2016					269	4.28
10/31/2016					266	4.04
1/9/2017					282	4.15
2/13/2017					268	4.38
4/3/2017					282	4.45
5/16/2017					234	4.23
6/12/2017					232	4.14
9/20/2017					211	3.88
3/27/2018					191	3.4
5/10/2018					219	3.79
10/9/2018					242	3.78
4/22/2019						16.8
4/29/2019					186	
8/27/2019					189	9.68
3/3/2020					170	9.94
3/9/2020	21.1			41.7		
3/10/2020		57.5				
10/13/2020		64.9			162	6.81
10/19/2020				38.9 (RA)		
10/21/2020	24.6					
10/27/2020			10.9			
4/21/2021	28.1		23.8			
5/3/2021				40.1		
5/5/2021		61.5			153	7.04
9/7/2021		63.3			158	6.69
9/13/2021	20.2		31.2			
9/15/2021				39.6		
3/8/2022		61.6				
3/9/2022	12.9					
3/16/2022			32.6		116	5.38
3/17/2022				38.2		
9/14/2022			32.099998			
9/19/2022	13.3	71.800003			145	4.9
9/27/2022				36.599998		
4/18/2023		60.299999		38.099998		
4/25/2023			34.700001			
5/2/2023	14.9				94.5	8.78

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	333					
7/26/2016			315	135		
9/27/2016	320					
9/28/2016			324	141		
11/1/2016	305			137		
11/2/2016			305			
1/9/2017	329			140		
1/10/2017			319			
2/13/2017	291			141		
2/14/2017			341			
4/3/2017			329	141		
4/4/2017	287					
5/16/2017	279			145		
5/17/2017			296			
6/12/2017	258		263	144		
9/18/2017			292	144		
9/20/2017	249					
3/27/2018	226		267	154		
5/9/2018	212		265	150		
10/8/2018	245		290	150		
3/5/2019		229			181	
4/23/2019			330	167		
4/29/2019	271					
8/27/2019	252	252				
8/28/2019			279	148	89.2	
3/2/2020			267			
3/3/2020				155	103	
3/4/2020	210	146				
10/14/2020	194	193				
10/19/2020					96.4	
10/20/2020				148		121
10/21/2020			242			
4/26/2021	193	178				
4/27/2021						125
4/28/2021				172	97.3	
5/3/2021			249			
9/1/2021	213	205		160		126
9/8/2021			239		110	
3/8/2022						124
3/14/2022			228			
3/15/2022	159	226				
3/16/2022				160	99.9	
9/20/2022			251			145
9/21/2022				189		
9/26/2022	180	297			109	
4/24/2023					91.400002	133
4/25/2023			229	147		
5/2/2023	146	108				

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				52.8
9/28/2016				246.4
11/2/2016				61.3
1/12/2017				47.7
2/13/2017				54
4/3/2017				28.7
5/17/2017				26.7
6/12/2017				26.3
9/18/2017				20.2
3/27/2018				13.9
5/9/2018				13.8
10/8/2018				11.1
4/23/2019				11.9
8/29/2019				14.2
3/2/2020				10.3
10/15/2020		98.7	99.8	
10/20/2020	92.8			
10/21/2020				7.36
4/27/2021	89.7	97.8	96.5	
5/3/2021				9.36
9/1/2021	92.1	95.5	96.8	
9/8/2021				7.63
3/8/2022	91.2	86.5	99.1	
3/14/2022				6.95
9/20/2022	110			6.51
9/21/2022		219	149	
4/24/2023	96.400002			
4/25/2023				5.85
5/3/2023		180	124	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				14.1	6.41	8.3
8/2/2016	2.91					
8/3/2016			3.21			
9/20/2016	2.94					
9/21/2016			2.95			
9/26/2016				13.3		
9/27/2016					6.3	7.94
10/25/2016	2.94		3.03			
10/31/2016					6.36	
11/1/2016						7.32
11/2/2016				12.1		
12/13/2016	2.93		3.21			
1/11/2017				11.6	6.65	
1/12/2017						6.29
2/6/2017			3			
2/8/2017	2.85					
2/13/2017				14		9.1
2/14/2017					9.2	
3/28/2017			3.3 (D)			
3/29/2017	3.4 (D)					
4/3/2017				11		
4/4/2017						7
4/6/2017					8	
4/24/2017			3.8 (D)			
4/26/2017	3.7 (D)					
5/15/2017				13		
5/16/2017						7.1
5/17/2017					8.1	
6/7/2017	3.3		3.5			
6/13/2017					8.1	
6/14/2017				13		7.9
8/21/2017			3.6			
8/22/2017	3.4					
9/19/2017				13		6.8
9/21/2017					7.7	
3/27/2018				13		5.7
3/28/2018					7	
5/8/2018						7.3
5/9/2018				11		
5/10/2018					7.4	
5/15/2018	3.2		3.3			
10/8/2018					7.4	
10/9/2018				12		6.5
10/16/2018			3.3			
10/17/2018	2.3					
2/20/2019		3.56				
4/16/2019	3.23		3.69			
4/24/2019					7.66	
5/1/2019				15		6.46
8/27/2019				8.75		
8/28/2019						6.4
8/29/2019					6.65	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
9/24/2019	3.69		3.21			
3/3/2020						6.2
3/9/2020				19.6	7.47	
3/18/2020			4.35			
3/25/2020	3.72					
9/21/2020			3.22			
9/23/2020	3.74					
10/19/2020				16	6.03	
10/20/2020						6.33
2/2/2021	3.49		3.85			
4/20/2021				12.9		
4/21/2021						5.99
5/3/2021					6.38	
8/2/2021	3.12					
8/10/2021			4.04			
9/8/2021				10.8		
9/14/2021						6.33
9/15/2021					6.39	
2/14/2022	3.26					
2/16/2022			4.42			
3/15/2022				10.4		
3/16/2022						7.08
3/17/2022					4.75	
8/2/2022			4.35			
8/9/2022	3.09					
9/19/2022				9.01		
9/20/2022						7.52
9/26/2022					8.6	
3/22/2023	2.8					
3/27/2023			4.17			
5/2/2023				9.27		
5/3/2023					7.08	6.53

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					16.9	24.9
7/20/2016	8.05					
9/26/2016					17.1	29.2
9/27/2016	8.37					
10/31/2016					17.3	25.9
11/1/2016	8.62					
1/9/2017					17.2	31.7
1/11/2017	8.33					
2/14/2017					20	43
2/15/2017	9.9					
4/3/2017						25
4/4/2017	9.5				19	
5/15/2017	8.1					
5/16/2017					20	21
6/12/2017					21	23
6/14/2017	8					
9/19/2017					19	19
9/21/2017	7.7					
3/28/2018	6.5				19	16
5/7/2018					20	16
5/8/2018	6.8					
10/8/2018	6.9					
10/9/2018					20	24
4/24/2019					18.3	11.9
8/28/2019	7.27				19.3	10.8
3/3/2020						5.33
3/4/2020					18.5	
3/10/2020	7.52					
10/13/2020					17.5	10
10/19/2020	7.33					
10/20/2020		13.8	10.6	7.55		
4/21/2021		40.5	5.3	7.77		10.3
4/26/2021					17.9	
5/5/2021	8.01					
9/1/2021					17.5	6.87
9/7/2021	8.14	40.2	4.94			
9/13/2021				7.9		
3/8/2022						7.81
3/9/2022		45.8	4.71	7.96	17.6	
3/17/2022	8.05					
9/19/2022		45	4.02			
9/20/2022					17.700001	11.4
9/26/2022	7.51			7.67		
4/18/2023		65.5	4.62			
4/19/2023					17.9	5.39
5/2/2023				8.39		
5/3/2023	5.56					

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				5.13		
9/28/2016				4		
11/1/2016				4.99		
1/11/2017				6.72		
2/14/2017				7.4		
4/4/2017				8.3		
5/16/2017				6.6		
6/14/2017				6		
9/20/2017				8.3		
3/27/2018				8.7		
5/9/2018				8.7		
10/9/2018				8		
3/6/2019	6.27	8.61			44.5	38.1
5/1/2019				5.04		
8/27/2019	6.42	58.9		7.95		
9/3/2019					43.8	36.8
3/3/2020				8.59		
3/9/2020			26.3			
3/10/2020	4.72	5.53			44.2	38.9
10/13/2020	6.09	22.7				
10/14/2020			120			
10/19/2020					38.6	35.4
10/21/2020				9.47		
4/20/2021			250			
4/26/2021				9.31		
4/28/2021					34	
5/3/2021						34.4
5/5/2021	9.16	14.9				
9/7/2021	6.45					
9/8/2021					33.4	35.4
9/13/2021			138			
9/14/2021		14.1		5.88		
3/8/2022	6.06	5.42				
3/9/2022			165		27.6	33.8
3/16/2022				6.88		
9/14/2022	7.92		288			
9/21/2022		12.1			25.799999	32.400002
9/26/2022				5.2		
4/19/2023	6.4				26.799999	32.700001
5/1/2023			204			
5/2/2023		4.3		4.85		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	9.18					
8/28/2019	9.75					
3/9/2020	14.6			2430		
10/13/2020	14.4					
10/14/2020				163	2440	2510
10/20/2020			247			
10/26/2020		2140				
4/20/2021			79.8	91.2		
4/27/2021		2190				2510
4/28/2021	14.4					
5/5/2021					2670	
6/16/2021		2390	85.8	128		2740
9/14/2021	6.73	2650				
9/15/2021			62.1	112	2940	2640
3/15/2022					2450	
3/16/2022			47.3	127		2520
3/17/2022	11.1	2660				
9/14/2022					2800	2570
9/21/2022		2780	96.900002	127		
9/26/2022	10					
5/1/2023					2600	2670
5/2/2023	21					
5/3/2023		523	32.900002	123		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						33.9
3/9/2020		5.26				
3/10/2020			117		5.73	
10/14/2020						38.7
10/15/2020					4.47	
10/19/2020		5.22				
10/20/2020			149			
10/26/2020	14.1					
10/27/2020				12.5		
4/20/2021		5.58				
4/21/2021			131			
4/27/2021				11.5		
4/28/2021					7.94	
5/3/2021	16					33.4
9/8/2021						30.3
9/13/2021		6.4	81.7	13.1		
9/14/2021	15.6				7.41	
3/9/2022					8.5	
3/14/2022	15.5	5.91				24.3
3/16/2022			99.5	14.1		
9/19/2022			90			
9/20/2022		7.21		43.200001		24.1
9/21/2022	16.5				7.96	
4/19/2023		7.37			8.09	
4/24/2023				13.6		
4/25/2023	59.400002					21.4
4/26/2023			58.400002			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					52.7	25
9/26/2016					50.6	23.6
10/31/2016					52.6	24.4
1/9/2017					51.4	24.3
2/13/2017					56	28
4/3/2017					55	31
5/16/2017					55	31
6/12/2017					57	32
9/20/2017					43	30
3/27/2018					38	33
5/10/2018					37	34
10/9/2018					41	32
4/22/2019						242
4/29/2019					40.7	
8/27/2019					34.7	145
3/3/2020					29.1	177
3/9/2020	159			10.7		
3/10/2020		2.26				
10/13/2020		1.91			25.9	96.3
10/19/2020				10.3		
10/21/2020	199					
10/27/2020			66.6			
4/21/2021	273		274			
5/3/2021				10.7		
5/5/2021		2.57			21	76.5
9/7/2021		2.13			21.2	78.6
9/13/2021	216		406			
9/15/2021				10.6		
3/8/2022		2.2				
3/9/2022	161					
3/16/2022			471		15	79.4
3/17/2022				10.9		
9/14/2022			439			
9/19/2022	143	2.57			13.3	70.900002
9/27/2022				10.8		
4/18/2023		2.26		11.2		
4/25/2023			405			
5/2/2023	108				6.52	84.300003

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	40.8					
7/26/2016			39.1	24.8		
9/27/2016	47.1					
9/28/2016			40.9	24.9		
11/1/2016	49.7			26		
11/2/2016			44.1			
1/9/2017	48.8			25.1		
1/10/2017			45.2			
2/13/2017	46			28		
2/14/2017			44			
4/3/2017			48	29		
4/4/2017	50					
5/16/2017	50			30		
5/17/2017			53			
6/12/2017	52		53	31		
9/18/2017			45	29		
9/20/2017	45					
3/27/2018	40		45	32		
5/9/2018	39		45	32		
10/8/2018	41		44	33		
3/5/2019		26.7			27.8	
4/23/2019			43.3	33		
4/29/2019	42.4					
8/27/2019	42.3	44.5				
8/28/2019			47.1	32.5	18.9	
3/2/2020			42.1			
3/3/2020				35.3	23.6	
3/4/2020	40.1	24.3				
10/14/2020	30.8	35.2				
10/19/2020				25		
10/20/2020				34		43.2
10/21/2020			35.8			
4/26/2021	24.8	23.6				
4/27/2021						51
4/28/2021				36.7	24.3	
5/3/2021			31.1			
9/1/2021	24.6	24.9		34		54.7
9/8/2021			28.7		34.3	
3/8/2022						54.3
3/14/2022			26.1			
3/15/2022	19	23.7				
3/16/2022				33.2	27.7	
9/20/2022			23.1			61.599998
9/21/2022				31.9		
9/26/2022	17.299999	25.299999			25	
4/24/2023					55.299999	52.599998
4/25/2023			22.200001	32.700001		
5/2/2023	19.6	39.200001				

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/27/2023 8:43 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				30.5
9/28/2016				31.1
11/2/2016				30.2
1/12/2017				29.8
2/13/2017				33
4/3/2017				32
5/17/2017				37
6/12/2017				34
9/18/2017				36
3/27/2018				33
5/9/2018				31
10/8/2018				32
4/23/2019				24.9
8/29/2019				28.5
3/2/2020				29.5
10/15/2020		6.21	12.5	
10/20/2020	22.9			
10/21/2020				23.9
4/27/2021	23.1	6.72	9.96	
5/3/2021				17.9
9/1/2021	23.4	6.69	10.9	
9/8/2021				36.7
3/8/2022	24.3	7.08	8.44	
3/14/2022				30.7
9/20/2022	22.9			22.200001
9/21/2022		8.42	5.58	
4/24/2023	24			
4/25/2023				17.1
5/3/2023		9.38	2.93	

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.00711 (J)	0.0112	<0.001015
8/2/2016	0.01					
8/3/2016			0.01			
9/20/2016	0.01					
9/21/2016			0.00266 (J)			
9/26/2016				0.0166		
9/27/2016					<0.001015	<0.001015
10/25/2016	0.01		0.01			
10/31/2016					<0.001015	
11/1/2016						<0.001015
11/2/2016				0.00481 (J)		
12/13/2016	0.01		0.01			
1/11/2017				0.00431 (J)	<0.001015	
1/12/2017						<0.001015
2/6/2017			0.01			
2/8/2017	0.01					
2/13/2017				0.0061 (J)		<0.001015
2/14/2017					<0.001015	
3/28/2017			0.00322 (J)			
3/29/2017	0.01					
4/3/2017				0.00215 (J)		
4/4/2017						<0.001015
4/6/2017					<0.001015	
4/24/2017			0.01			
4/26/2017	0.01					
5/15/2017				0.0123		
5/16/2017						<0.001015
5/17/2017					<0.001015	
6/7/2017	<0.01		0.00227 (J)			
6/13/2017					<0.001015	
6/14/2017				0.00558 (J)		<0.001015
1/31/2018					<0.001015	
2/1/2018				0.00287 (J)		<0.001015
2/19/2018			<0.01			
2/20/2018	<0.01					
5/8/2018						<0.001015
5/9/2018				<0.01		
5/10/2018					<0.001015	
5/15/2018	<0.01		<0.01			
10/8/2018					<0.001015	
10/9/2018				0.00248 (J)		<0.001015
10/16/2018			<0.01			
10/17/2018	<0.01					
2/20/2019		<0.001015				
4/16/2019	<0.01		<0.01			
4/24/2019					<0.001015	
5/1/2019				<0.01		<0.001015
8/27/2019				0.00336 (J)		
8/28/2019						<0.001015
8/29/2019					<0.001015	
9/24/2019		0.00405 (J)	<0.01			
3/3/2020						<0.001015

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.0105	<0.001015	
3/18/2020			<0.01			
3/25/2020	<0.001015					
9/21/2020			<0.01			
9/23/2020	<0.001015					
10/19/2020				0.00527 (J)	<0.001015	
10/20/2020						<0.001015
2/2/2021	0.000313 (J)		0.000389 (J)			
4/20/2021				0.00235		
4/21/2021						<0.001015
5/3/2021					<0.001015	
8/2/2021	0.00032 (J)					
8/10/2021			0.00058 (J)			
9/8/2021				0.00143		
9/14/2021						0.00037 (J)
9/15/2021					0.00047 (J)	
2/14/2022	0.00021 (J)					
2/16/2022			0.0004 (J)			
3/15/2022				0.00199		
3/16/2022						0.00027 (J)
3/17/2022					0.00139	
8/2/2022			0.000629 (J)			
8/9/2022	0.000291 (J)					
9/19/2022				0.00148		
9/20/2022						0.000272 (J)
9/26/2022					0.000436 (J)	
3/22/2023	<0.001015					
3/27/2023			0.000761 (J)			
5/2/2023				0.0042		
5/3/2023					0.000411 (J)	<0.001015

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.001015	<0.001015
7/20/2016	<0.001015					
9/26/2016					<0.001015	<0.001015
9/27/2016	<0.001015					
10/31/2016					<0.001015	<0.001015
11/1/2016	<0.001015					
1/9/2017					<0.001015	<0.001015
1/11/2017	<0.001015					
2/14/2017					<0.001015	<0.001015
2/15/2017	<0.001015					
4/3/2017						<0.001015
4/4/2017	<0.001015				<0.001015	
5/15/2017	<0.001015					
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
6/14/2017	<0.001015					
1/30/2018	<0.001015					
1/31/2018					<0.001015	
2/1/2018						<0.001015
5/7/2018					<0.001015	<0.001015
5/8/2018	<0.001015					
10/8/2018	<0.001015					
10/9/2018					<0.001015	<0.001015
4/24/2019					<0.001015	<0.001015
8/28/2019	<0.001015				<0.001015	<0.001015
3/3/2020						<0.001015
3/4/2020					<0.001015	
3/10/2020	<0.001015					
10/13/2020					<0.001015	<0.001015
10/19/2020	<0.001015					
10/20/2020		<0.00102	<0.001015	<0.001015		
4/21/2021		0.000207 (J)	0.000239 (J)	0.000239 (J)		<0.001015
4/26/2021					<0.001015	
5/5/2021	<0.001015					
9/1/2021					0.00033 (J)	0.00067 (J)
9/7/2021	0.00084 (J)	0.00031 (J)	0.00034 (J)			
9/13/2021				0.00044 (J)		
3/8/2022						<0.001015
3/9/2022		<0.00102	0.00068 (J)	<0.001015	0.00028 (J)	
3/17/2022	0.00048 (J)					
9/19/2022		0.000647 (J)	0.000275 (J)			
9/20/2022					0.000243 (J)	<0.001015
9/26/2022	0.00215				0.000356 (J)	
4/18/2023		0.000323 (J)	<0.001015			
4/19/2023					<0.001015	<0.001015
5/2/2023					<0.001015	
5/3/2023	0.00034 (J)					

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.001015		
9/28/2016				<0.001015		
11/1/2016				<0.001015		
1/11/2017				<0.001015		
2/14/2017				<0.001015		
4/4/2017				<0.001015		
5/16/2017				<0.001015		
6/14/2017				<0.001015		
2/1/2018				<0.001015		
5/9/2018				<0.001015		
10/9/2018				<0.001015		
3/6/2019	<0.001015	<0.001015			<0.01	<0.001015
5/1/2019				<0.001015		
8/27/2019	<0.001015	<0.001015		<0.001015		
9/3/2019					<0.01	<0.001015
3/3/2020				<0.001015		
3/9/2020			<0.00102			
3/10/2020	<0.001015	<0.001015			<0.01	<0.001015
10/13/2020	<0.001015	<0.001015				
10/14/2020			<0.00102			
10/19/2020					<0.01	<0.001015
10/21/2020				<0.001015		
4/20/2021			<0.00102			
4/26/2021				0.00021 (J)		
4/28/2021					0.000229 (J)	
5/3/2021						<0.001015
5/5/2021	0.00119	0.0003 (J)				
9/7/2021	0.00029 (J)					
9/8/2021					0.00024 (J)	0.00025 (J)
9/13/2021			0.00029 (J)			
9/14/2021		0.00033 (J)		0.00051 (J)		
3/8/2022	<0.001015	0.00023 (J)				
3/9/2022			<0.00102		0.00021 (J)	0.00022 (J)
3/16/2022				<0.001015		
9/14/2022	<0.001015		<0.00102			
9/21/2022		0.000278 (J)			0.000306 (J)	<0.001015
9/26/2022				<0.001015		
4/19/2023	<0.001015				0.000211 (J)	<0.001015
5/1/2023			0.000252 (J)			
5/2/2023		<0.001015		<0.001015		

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.001015					
8/28/2019	<0.001015					
3/9/2020	<0.001015				<0.00102	
10/13/2020	<0.001015					
10/14/2020				<0.001015	<0.00102	<0.001015
10/20/2020			<0.001015			
10/26/2020	<0.01					
4/20/2021			<0.001015	<0.001015		
4/27/2021		0.000308 (J)				<0.001015
4/28/2021	0.000708 (J)					
5/5/2021					0.0011	
6/16/2021		0.00068 (J)	0.00022 (J)	0.00028 (J)		0.00065 (J)
9/14/2021	0.00063 (J)	0.00075 (J)				
9/15/2021			0.00027 (J)	0.00021 (J)	0.00052 (J)	0.0004 (J)
3/15/2022					0.00039 (J)	
3/16/2022			0.0003 (J)	0.00023 (J)		0.0003 (J)
3/17/2022	0.00024 (J)	0.00066 (J)				
9/14/2022					<0.00102	0.000589 (J)
9/21/2022		0.000328 (J)	0.000233 (J)	0.000228 (J)		
9/26/2022	0.000247 (J)					
5/1/2023					0.000248 (J)	0.000286 (J)
5/2/2023	<0.001015					
5/3/2023		0.000377 (J)	0.000244 (J)	0.00025 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.001015
3/9/2020		<0.001015				
3/10/2020			<0.001015		<0.001015	
10/14/2020						<0.001015
10/15/2020					<0.001015	
10/19/2020		<0.001015				
10/20/2020			<0.001015			
10/26/2020	<0.001015					
10/27/2020				<0.001015		
4/20/2021		<0.001015				
4/21/2021			<0.001015			
4/27/2021				<0.001015		
4/28/2021					0.000309 (J)	
5/3/2021	0.000203 (J)					0.000276 (J)
9/8/2021						0.00025 (J)
9/13/2021		0.00027 (J)	0.00032 (J)	0.00033 (J)		
9/14/2021	0.00039 (J)				0.00037 (J)	
3/9/2022					0.00024 (J)	
3/14/2022	0.00036 (J)	<0.001015				<0.001015
3/16/2022			0.00021 (J)	0.00021 (J)		
9/19/2022			0.000331 (J)			
9/20/2022		<0.001015		0.000261 (J)		0.000269 (J)
9/21/2022	0.000302 (J)				0.000373 (J)	
4/19/2023		<0.001015			<0.001015	
4/24/2023				<0.001015		
4/25/2023	<0.001015					<0.001015
4/26/2023			<0.001015			

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.001015	<0.01
9/26/2016					<0.001015	<0.01
10/31/2016					<0.001015	<0.01
1/9/2017					<0.001015	<0.01
2/13/2017					<0.001015	<0.01
4/3/2017					<0.001015	<0.01
5/16/2017					<0.001015	<0.01
6/12/2017					<0.001015	<0.01
1/29/2018					<0.001015	<0.01
5/10/2018					<0.001015	<0.01
10/9/2018					<0.001015	<0.01
4/22/2019						<0.01
4/29/2019					<0.001015	
8/27/2019					<0.001015	<0.01
3/3/2020					<0.001015	<0.01
3/9/2020	<0.001015			<0.001015		
3/10/2020		<0.001015				
10/13/2020		<0.001015			<0.001015	<0.01
10/19/2020				<0.001015		
10/21/2020	<0.001015					
10/27/2020			<0.00102			
4/21/2021	<0.001015		<0.00102			
5/3/2021				0.000234 (J)		
5/5/2021		<0.001015			<0.001015	0.000646 (J)
9/7/2021		0.00033 (J)			0.00027 (J)	0.00042 (J)
9/13/2021	0.00032 (J)		0.00041 (J)			
9/15/2021				0.00025 (J)		
3/8/2022		0.00023 (J)				
3/9/2022	0.00021 (J)					
3/16/2022			<0.00102		0.00033 (J)	0.00034 (J)
3/17/2022				0.0002 (J)		
9/14/2022			0.000707 (J)			
9/19/2022	<0.001015	0.00026 (J)			0.000333 (J)	0.000343 (J)
9/27/2022				<0.001015		
4/18/2023		<0.001015		<0.001015		
4/25/2023			0.000752 (J)			
5/2/2023	<0.001015				<0.001015	0.000885 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.001015					
7/26/2016			<0.001015	<0.001015		
9/27/2016	<0.001015					
9/28/2016			<0.001015	<0.001015		
11/1/2016	<0.001015			<0.001015		
11/2/2016			<0.001015			
1/9/2017	<0.001015			<0.001015		
1/10/2017			<0.001015			
2/13/2017	<0.001015			<0.001015		
2/14/2017			<0.001015			
4/3/2017			<0.001015	<0.001015		
4/4/2017	<0.001015					
5/16/2017	<0.001015			<0.001015		
5/17/2017			<0.001015			
6/12/2017	<0.001015		<0.001015	<0.001015		
1/29/2018	<0.001015					
2/1/2018			<0.001015	<0.001015		
5/9/2018	<0.001015		<0.001015	<0.001015		
10/8/2018	<0.001015		<0.001015	<0.001015		
3/5/2019		<0.001015			<0.01	
4/23/2019			<0.001015	<0.001015		
4/29/2019	<0.001015					
8/27/2019	<0.001015	<0.001015				
8/28/2019			<0.001015	<0.001015	0.00361 (J)	
3/2/2020			<0.001015			
3/3/2020				<0.001015	<0.01	
3/4/2020	<0.001015	<0.001015				
10/14/2020	<0.001015	<0.001015				
10/19/2020					<0.01	
10/20/2020				<0.001015		<0.001015
10/21/2020			<0.001015			
4/26/2021	<0.001015	<0.001015				
4/27/2021						<0.001015
4/28/2021				<0.001015	0.00026 (J)	
5/3/2021			<0.001015			
9/1/2021	0.00029 (J)	0.00027 (J)		0.00025 (J)		0.0003 (J)
9/8/2021			0.00027 (J)		0.00021 (J)	
3/8/2022						<0.001015
3/14/2022			<0.001015			
3/15/2022	<0.001015	0.00032 (J)				
3/16/2022				0.00023 (J)	0.00022 (J)	
9/20/2022			<0.001015			0.000282 (J)
9/21/2022				0.000246 (J)		
9/26/2022	0.000278 (J)	0.000315 (J)			0.000592 (J)	
4/24/2023					0.000232 (J)	<0.001015
4/25/2023			<0.001015	<0.001015		
5/2/2023	<0.001015	0.000262 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.001015
9/28/2016				<0.001015
11/2/2016				<0.001015
1/12/2017				<0.001015
2/13/2017				<0.001015
4/3/2017				<0.001015
5/17/2017				<0.001015
6/12/2017				<0.001015
2/1/2018				<0.001015
5/9/2018				<0.001015
10/8/2018				<0.001015
4/23/2019				<0.001015
8/29/2019				<0.001015
3/2/2020				<0.001015
10/15/2020		<0.001015	<0.001015	
10/20/2020	<0.001015			
10/21/2020				<0.001015
4/27/2021	0.000219 (J)	0.000284 (J)	0.000204 (J)	
5/3/2021				<0.001015
9/1/2021	0.00025 (J)	0.0003 (J)	0.00031 (J)	
9/8/2021				0.00021 (J)
3/8/2022	0.00023 (J)	0.00024 (J)	0.0002 (J)	
3/14/2022				0.00024 (J)
9/20/2022	<0.001015			<0.001015
9/21/2022		0.000301 (J)	<0.001015	
4/24/2023	<0.001015			
4/25/2023				<0.001015
5/3/2023		<0.001015	<0.001015	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.005	0.00273 (J)	<0.000203
8/2/2016	<0.005					
8/3/2016			0.0026 (J)			
9/20/2016	<0.005					
9/21/2016			0.00362 (J)			
9/26/2016				<0.005		
9/27/2016					0.00263 (J)	<0.000203
10/25/2016	<0.005		0.00305 (J)			
10/31/2016					0.00289 (J)	
11/1/2016						<0.000203
11/2/2016				<0.005		
12/13/2016	<0.005		<0.005			
1/11/2017				<0.005	0.00244 (J)	
1/12/2017						0.00316 (J)
2/6/2017			0.00308 (J)			
2/8/2017	<0.005					
2/13/2017				<0.005		0.00227 (J)
2/14/2017					0.00209 (J)	
3/28/2017			<0.005			
3/29/2017	<0.005					
4/3/2017				<0.005		
4/4/2017						<0.000203
4/6/2017					0.00226 (J)	
4/24/2017			<0.005			
4/26/2017	<0.005					
5/15/2017				<0.005		
5/16/2017						<0.000203
5/17/2017					0.0021 (J)	
6/7/2017	<0.005		<0.005			
6/13/2017					<0.005	
6/14/2017				<0.005		<0.000203
1/31/2018					<0.005	
2/1/2018				<0.005		<0.000203
2/19/2018			<0.005			
2/20/2018	<0.005					
5/8/2018						<0.000203
5/9/2018				<0.005		
5/10/2018					<0.005	
5/15/2018	<0.005		<0.005			
10/8/2018					<0.005	
10/9/2018				<0.005		<0.000203
10/16/2018			<0.005			
10/17/2018	<0.005					
2/20/2019		<0.000203				
4/16/2019	<0.005		<0.005			
4/24/2019					<0.005	
5/1/2019				<0.005		<0.000203
8/27/2019				<0.005		
8/28/2019						<0.000203
8/29/2019					<0.005	
9/24/2019		<0.000203	0.00234 (J)			
3/3/2020						<0.000203

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.005	<0.005	
3/18/2020			<0.005			
3/25/2020	<0.000203					
9/21/2020			<0.005			
9/23/2020	<0.000203					
10/19/2020				<0.005	<0.005	
10/20/2020						<0.000203
2/2/2021	<0.000203		0.000384			
4/20/2021				0.000113 (J)		
4/21/2021						<0.000203
5/3/2021					0.0003	
8/2/2021	<0.000203					
8/10/2021			0.00059			
9/8/2021				8E-05 (J)		
9/14/2021						<0.000203
9/15/2021					0.0003	
2/14/2022	<0.000203					
2/16/2022			0.00055			
3/15/2022				0.00038		
3/16/2022						<0.000203
3/17/2022					0.00091	
8/2/2022			0.00124			
8/9/2022	<0.000203					
9/19/2022				0.00108		
9/20/2022						7.7E-05 (J)
9/26/2022					0.00137	
3/22/2023	<0.000203					
3/27/2023			0.000254			
5/2/2023				0.000545		
5/3/2023					0.00107	<0.000203

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.005	0.0507
7/20/2016	<0.005					
9/26/2016					<0.005	0.0389
9/27/2016	<0.005					
10/31/2016					<0.005	0.0152
11/1/2016	<0.005					
1/9/2017					<0.005	0.00298 (J)
1/11/2017	<0.005					
2/14/2017					<0.005	0.00507 (J)
2/15/2017	<0.005					
4/3/2017						0.00228 (J)
4/4/2017	<0.005				<0.005	
5/15/2017	<0.005					
5/16/2017					<0.005	0.00418 (J)
6/12/2017					<0.005	<0.005
6/14/2017	<0.005					
1/30/2018	<0.005					
1/31/2018					<0.005	
2/1/2018						<0.005
5/7/2018					<0.005	<0.005
5/8/2018	0.00211 (J)					
10/8/2018	<0.005					
10/9/2018					<0.005	<0.005
4/24/2019					<0.005	<0.005
8/28/2019	<0.005				0.0021 (J)	0.00216 (J)
3/3/2020						<0.005
3/4/2020					<0.005	
3/10/2020	<0.005					
10/13/2020					<0.005	0.00352 (J)
10/19/2020	<0.005					
10/20/2020		<0.005	0.0112	<0.000203		
4/21/2021		0.00086	0.0523	6.88E-05 (J)		0.00213
4/26/2021					0.000703	
5/5/2021	0.00141					
9/1/2021					0.00066	0.00646
9/7/2021	0.00165	0.00072	0.0816			
9/13/2021				<0.000203		
3/8/2022						0.00413
3/9/2022		0.00066	0.0824	<0.000203	0.00065	
3/17/2022	0.00116					
9/19/2022		0.00092	0.0931			
9/20/2022					0.0247	0.00579
9/26/2022	0.00142			<0.000203		
4/18/2023		0.000767	0.0819			
4/19/2023					0.0118	0.0024
5/2/2023				<0.000203		
5/3/2023	0.000717					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.103		
9/28/2016				0.108		
11/1/2016				0.0813		
1/11/2017				0.0669		
2/14/2017				0.084		
4/4/2017				0.0829		
5/16/2017				0.0815		
6/14/2017				0.077		
2/1/2018				0.0499		
5/9/2018				0.0534		
10/9/2018				0.0525		
3/6/2019	<0.0002	<0.000203			<0.005	<0.005
5/1/2019				0.0642		
8/27/2019	<0.0002	<0.000203		0.0498		
9/3/2019					<0.005	<0.005
3/3/2020				0.0471		
3/9/2020			<0.000203			
3/10/2020	<0.0002	<0.000203			<0.005	<0.005
10/13/2020	<0.0002	<0.000203				
10/14/2020			<0.000203			
10/19/2020					<0.005	<0.005
10/21/2020				0.0368		
4/20/2021			<0.000203			
4/26/2021				0.0358		
4/28/2021					0.000658	
5/3/2021						0.00089
5/5/2021	0.00342	<0.000203				
9/7/2021	<0.0002					
9/8/2021					0.00078	0.0008
9/13/2021			<0.000203			
9/14/2021		<0.000203		0.0515		
3/8/2022	<0.0002	<0.000203				
3/9/2022			<0.000203		0.00081	0.00083
3/16/2022				0.0444		
9/14/2022	0.0002 (J)		<0.000203			
9/21/2022		<0.000203			0.001	0.000591
9/26/2022				0.0522		
4/19/2023	9E-05 (J)				0.000959	0.000251
5/1/2023			<0.000203			
5/2/2023		<0.000203		0.0538		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.005					
8/28/2019	<0.005					
3/9/2020	<0.005				<0.0002	
10/13/2020	<0.005					
10/14/2020				<0.000203	<0.0002	<0.005
10/20/2020			<0.000203			
10/26/2020	<0.000203					
4/20/2021			<0.000203	<0.000203		
4/27/2021	<0.000203					0.000718
4/28/2021	0.000291					
5/5/2021					0.000185 (J)	
6/16/2021	<0.000203	<0.000203	<0.000203			0.00068
9/14/2021	0.00017 (J)	<0.000203				
9/15/2021		<0.000203	<0.000203	<0.000203	<0.0002	0.00042
3/15/2022					8E-05 (J)	
3/16/2022		<0.000203	<0.000203	<0.000203		0.00294
3/17/2022	8E-05 (J)	<0.000203				
9/14/2022					<0.0002	0.000482
9/21/2022	<0.000203	<0.000203	<0.000203	<0.000203		
9/26/2022	8.7E-05 (J)					
5/1/2023					8.8E-05 (J)	0.000792
5/2/2023	0.000109 (J)					
5/3/2023	<0.000203	<0.000203	<0.000203	<0.000203		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.00965
3/9/2020		0.00226 (J)				
3/10/2020			<0.000203		<0.000203	
10/14/2020						0.0121
10/15/2020					<0.000203	
10/19/2020		<0.005				
10/20/2020			<0.000203			
10/26/2020	<0.000203					
10/27/2020				<0.000203		
4/20/2021		0.000397				
4/21/2021			<0.000203			
4/27/2021				<0.000203		
4/28/2021					0.000134 (J)	
5/3/2021	<0.000203					0.0112
9/8/2021						0.0123
9/13/2021		0.00027	<0.000203	<0.000203		
9/14/2021	<0.000203				<0.000203	
3/9/2022					7E-05 (J)	
3/14/2022	<0.000203	0.00025				0.0105
3/16/2022			<0.000203	<0.000203		
9/19/2022			<0.000203			
9/20/2022		0.000292		<0.000203		0.0095
9/21/2022	<0.000203				0.000238	
4/19/2023		0.00016 (J)			<0.000203	
4/24/2023				<0.000203		
4/25/2023	<0.000203					0.00778
4/26/2023			<0.000203			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.00796 (J)	<0.0002
9/26/2016					0.00839 (J)	<0.0002
10/31/2016					0.00889 (J)	<0.0002
1/9/2017					0.00787 (J)	<0.0002
2/13/2017					0.00873 (J)	<0.0002
4/3/2017					0.00861 (J)	<0.0002
5/16/2017					0.00736 (J)	<0.0002
6/12/2017					0.00684 (J)	<0.0002
1/29/2018					0.00548 (J)	<0.0002
5/10/2018					0.00529 (J)	<0.0002
10/9/2018					0.00683	<0.0002
4/22/2019						<0.0002
4/29/2019					0.00555	
8/27/2019					0.00562	<0.0002
3/3/2020					0.00456 (J)	<0.0002
3/9/2020	<0.000203			<0.000203		
3/10/2020		<0.000203				
10/13/2020		<0.000203			0.00555	<0.0002
10/19/2020				<0.000203		
10/21/2020	<0.000203					
10/27/2020			<0.000203			
4/21/2021	<0.000203		0.000116 (J)			
5/3/2021				<0.000203		
5/5/2021		<0.000203			0.00451	<0.0002
9/7/2021		<0.000203			0.00455	<0.0002
9/13/2021	<0.000203		9E-05 (J)			
9/15/2021				<0.000203		
3/8/2022		8E-05 (J)				
3/9/2022	<0.000203					
3/16/2022			0.00014 (J)		0.00378	<0.0002
3/17/2022				<0.000203		
9/14/2022			0.000107 (J)			
9/19/2022	<0.000203	<0.000203			0.00397	<0.0002
9/27/2022				<0.000203		
4/18/2023		<0.000203		<0.000203		
4/25/2023			<0.000203			
5/2/2023	<0.000203				0.00405	0.00012 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.0427					
7/26/2016			<0.000203	0.0648		
9/27/2016	0.0401					
9/28/2016			<0.000203	0.0673		
11/1/2016	0.0374			0.0605		
11/2/2016			<0.000203			
1/9/2017	0.0291			0.0504		
1/10/2017			<0.000203			
2/13/2017	0.0368			0.065		
2/14/2017			<0.000203			
4/3/2017			<0.000203	0.0701		
4/4/2017	0.0348					
5/16/2017	0.0379			0.0725		
5/17/2017			<0.000203			
6/12/2017	0.0376		<0.000203	0.0656		
1/29/2018	0.0171					
2/1/2018			<0.000203	0.0564		
5/9/2018	0.0128		<0.000203	0.0641		
10/8/2018	0.011		<0.000203	0.0616		
3/5/2019		0.00889			<0.005	
4/23/2019			<0.000203	0.0471		
4/29/2019	0.0206					
8/27/2019	0.0157	0.0104				
8/28/2019			<0.000203	0.0283	<0.005	
3/2/2020			<0.000203			
3/3/2020				0.0186	<0.005	
3/4/2020	0.0119	0.00216 (J)				
10/14/2020	0.0117	0.00364 (J)				
10/19/2020					<0.005	
10/20/2020				0.00675		<0.000203
10/21/2020			<0.000203			
4/26/2021	0.00667	0.00507				
4/27/2021						<0.000203
4/28/2021				0.00574	0.000466	
5/3/2021			<0.000203			
9/1/2021	0.00719	0.00741		0.00456		<0.000203
9/8/2021			<0.000203		0.00022	
3/8/2022						<0.000203
3/14/2022			<0.000203			
3/15/2022	0.0039	0.013				
3/16/2022				0.00531	0.00021	
9/20/2022			<0.000203			<0.000203
9/21/2022				0.00612		
9/26/2022	0.00501	0.00886			0.000852	
4/24/2023					0.000254	<0.000203
4/25/2023			<0.000203	0.00983		
5/2/2023	0.00283	0.00404				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.000203
9/28/2016				<0.000203
11/2/2016				<0.000203
1/12/2017				<0.000203
2/13/2017				<0.000203
4/3/2017				<0.000203
5/17/2017				<0.000203
6/12/2017				<0.000203
2/1/2018				<0.000203
5/9/2018				<0.000203
10/8/2018				<0.000203
4/23/2019				<0.000203
8/29/2019				<0.000203
3/2/2020				<0.000203
10/15/2020		<0.005	<0.005	
10/20/2020	<0.005			
10/21/2020				<0.000203
4/27/2021	0.000826	0.000206	0.000331	
5/3/2021				<0.000203
9/1/2021	0.00078	0.00011 (J)	0.00016 (J)	
9/8/2021				<0.000203
3/8/2022	0.00067	0.00013 (J)	0.00022	
3/14/2022				<0.000203
9/20/2022	0.000748			<0.000203
9/21/2022		0.000147 (J)	0.000115 (J)	
4/24/2023	0.00152			
4/25/2023				<0.000203
5/3/2023		0.000156 (J)	0.0004	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

Date	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016					0.233 (U)	0.604 (U)
8/2/2016	0.0177 (U)					
8/3/2016			0.299 (U)			
9/20/2016	0.725					
9/21/2016			0.835			
9/26/2016				0.499		
9/27/2016					0.82	0.65
10/25/2016	0.494 (U)		0.0629 (U)			
10/31/2016					0.37 (U)	
11/1/2016						0.458 (U)
11/2/2016				0.637 (U)		
12/13/2016	0.39 (U)		0.547			
1/11/2017				0.475 (U)	0.668	
1/12/2017						0.308 (U)
2/6/2017			0.251 (U)			
2/8/2017	0.455 (U)					
2/13/2017				0.0464 (U)		-0.0581 (U)
2/14/2017					0.36 (U)	
3/28/2017			-0.109 (U)			
3/29/2017	0.251 (U)					
4/3/2017				0.335 (U)		
4/4/2017						0.288 (U)
4/6/2017					0.519	
4/24/2017			0.293 (U)			
4/26/2017	0.0762 (U)					
5/15/2017				0.409 (U)		
5/16/2017						0.119 (U)
5/17/2017					-0.497 (U)	
6/7/2017	0.32 (U)		0.529			
6/13/2017					0.147 (U)	
6/14/2017				0.261 (U)		0.129 (U)
1/29/2018				0.693		
1/30/2018						0.31 (U)
1/31/2018					0.82	
2/19/2018			0.497			
2/20/2018	0.465					
5/8/2018						0.0757 (U)
5/9/2018				0.413 (U)		
5/10/2018					0.383 (U)	
5/15/2018	0.0571 (U)		-0.601 (U)			
10/8/2018					0.193 (U)	
10/9/2018				0.338 (U)		0.5
10/16/2018			0.2 (U)			
10/17/2018	0.482					
2/20/2019		0.398 (U)				
4/16/2019	0.506 (U)		0.733			
4/24/2019					0.601	
5/1/2019				0.312 (U)		0.295 (U)
8/27/2019				0.696		
8/28/2019						0.358 (U)
8/29/2019					0.437 (U)	
9/24/2019		0.373 (U)	0.753			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/3/2020						0.227 (U)
3/9/2020				0.726	0.906	
3/18/2020			0.465 (U)			
3/25/2020	0.0656 (U)					
9/21/2020			1.25			
9/23/2020	0.542 (U)					
10/19/2020				0.335 (U)	0.387 (U)	
10/20/2020						0.0474 (U)
2/2/2021	0.448 (U)		0.223 (U)			
4/20/2021				0.44 (U)		
4/21/2021						0.309 (U)
5/3/2021					0.821 (U)	
8/2/2021	0.738 (U)					
8/10/2021			0.77 (U)			
9/8/2021				0.396 (U)		
9/14/2021						0.279 (U)
9/15/2021					1.43 (U)	
2/14/2022	7.76					
2/16/2022			0.561 (U)			
3/15/2022				0.754 (U)		
3/16/2022						0.579 (U)
3/17/2022					0.232 (U)	
8/2/2022			0.154 (U)			
8/9/2022	0.584 (U)					
9/19/2022				0.933 (U)		
9/20/2022						0.441 (U)
9/26/2022					0.502 (U)	
3/22/2023	0.707 (U)					
3/27/2023			0.142 (U)			
5/2/2023				1.38		
5/3/2023					0.952 (U)	0.618 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					0.191 (U)	0.456 (U)
7/20/2016	0.271 (U)					
9/26/2016					0.663	0.854
9/27/2016	0.858					
10/31/2016					0.608	0.268 (U)
11/1/2016	0.456 (U)					
1/9/2017					-0.0687 (U)	0.118 (U)
1/11/2017	0.624 (U)					
2/14/2017					0.459 (U)	0.264 (U)
2/15/2017	0.821					
4/3/2017						0.00348 (U)
4/4/2017	0.258 (U)				0.327 (U)	
5/15/2017	0.382 (U)					
5/16/2017					0.232 (U)	0.229 (U)
6/12/2017					0.123 (U)	0.226 (U)
6/14/2017	0.746					
1/30/2018	0.366 (U)					1.05
1/31/2018					0.516	
5/7/2018					0.615	0.444 (U)
5/8/2018	0.854 (U)					
10/8/2018	0.717					
10/9/2018					0.825	1.15
4/24/2019					0.373	0.317 (U)
8/28/2019	0.577 (U)				0.00424 (U)	0.372 (U)
3/3/2020						-0.0538 (U)
3/4/2020					0.337 (U)	
3/10/2020	1.57					
10/13/2020					0.232 (U)	0.209 (U)
10/19/2020	0.17 (U)					
10/20/2020		0.357 (U)	0.479 (U)	-0.128 (U)		
4/21/2021		0.748 (U)	1.13	0.164 (U)		0.319 (U)
4/26/2021					0.643 (U)	
5/5/2021	0.446 (U)					
9/1/2021					0.37 (U)	0.231 (U)
9/7/2021	0.521 (U)	0.822 (U)	1.24 (U)			
9/13/2021				0.387 (U)		
3/8/2022						0.455 (U)
3/9/2022		0.284 (U)	1.28	0.417 (U)	0.387 (U)	
3/17/2022	0.656 (U)					
9/19/2022		0.762 (U)	1.11 (U)			
9/20/2022					0.359 (U)	0.392 (U)
9/26/2022	0.62 (U)			1 (U)		
4/18/2023		0.555 (U)	0.695 (U)			
4/19/2023					1.05 (U)	0.679 (U)
5/2/2023				0.502 (U)		
5/3/2023	0.659 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.817		
9/28/2016				0.336 (U)		
11/1/2016				0.00962 (U)		
1/11/2017				0.844		
2/14/2017				0.444 (U)		
4/4/2017				0.379 (U)		
5/16/2017				0.37 (U)		
6/14/2017				0.875		
1/30/2018				1.11		
5/9/2018				0.301 (U)		
10/9/2018				1.04		
3/6/2019	0.732	0.229 (U)			0.995	0.23 (U)
5/1/2019				0.29 (U)		
8/27/2019	0.701	0.344 (U)		0.615		
9/3/2019					0.144 (U)	0.37 (U)
3/3/2020				0.361 (U)		
3/9/2020			0.684			
3/10/2020	1.18	0.95			0.276 (U)	0.374 (U)
10/13/2020	0.298 (U)	0.0821 (U)				
10/14/2020			0.362			
10/19/2020					0.154 (U)	0.0854 (U)
10/21/2020				0.448 (U)		
4/20/2021			0.93 (U)			
4/26/2021				0.378 (U)		
4/28/2021					0.46 (U)	
5/3/2021						0.286 (U)
5/5/2021	2.37	0.183 (U)				
9/7/2021	1.32 (U)					
9/8/2021					0.265 (U)	0.505 (U)
9/13/2021			0.231 (U)			
9/14/2021		0.686 (U)		0.96 (U)		
3/8/2022	0.896 (U)	0.528 (U)				
3/9/2022			0.425 (U)		0.408 (U)	0.327 (U)
3/16/2022				0.589 (U)		
9/14/2022	0.73 (U)		0.294 (U)			
9/21/2022		1.46			2.05	0.618 (U)
9/26/2022				0.479 (U)		
4/19/2023	1.19				1.07	0.61 (U)
5/1/2023			0.546 (U)			
5/2/2023		0.349 (U)		0.831 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.24 (U)					
8/28/2019	0.908					
3/9/2020	0.202 (U)			4.4		
10/13/2020	0.683					
10/14/2020			0.484	4.78	4.46	
10/20/2020		0.679				
10/26/2020	2.3					
4/20/2021		0.304 (U)	0.41 (U)			
4/27/2021	1.97				1.21	
4/28/2021	0.683 (U)					
5/5/2021				6.25		
6/16/2021	2.99	0.362 (U)	0.73 (U)		3.11	
9/14/2021	0.833 (U)	2.3				
9/15/2021		0.716 (U)	0.662 (U)	7.07	2.48	
3/15/2022				6.96		
3/16/2022		1.01 (U)	0.26 (U)		1 (U)	
3/17/2022	0.7 (U)	1.17				
9/14/2022				6.2	0.517 (U)	
9/21/2022	2.06	1.13	1.48			
9/26/2022	1.23					
5/1/2023				7.55	1.37	
5/2/2023	1.11 (U)					
5/3/2023	0.095 (U)	0.833 (U)	0.643 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.636 (U)
3/9/2020		0.641				
3/10/2020			0.829		0.4 (U)	
10/14/2020						0.0343 (U)
10/15/2020					0.826	
10/19/2020		0.155 (U)				
10/20/2020			0.598			
10/26/2020	0.0991 (U)					
10/27/2020				-0.0134 (U)		
4/20/2021		0.0931 (U)				
4/21/2021			1.09			
4/27/2021				0.446 (U)		
4/28/2021					0.352 (U)	
5/3/2021	0.455 (U)					0.5 (U)
9/8/2021						0.711 (U)
9/13/2021		0.173 (U)	0.361 (U)	0.605 (U)		
9/14/2021	0.417 (U)				0.784 (U)	
3/9/2022					0.497 (U)	
3/14/2022	0.336 (U)	0.219 (U)				0.655 (U)
3/16/2022			0.539 (U)	0.701 (U)		
9/19/2022			0.756 (U)			
9/20/2022		0.876 (U)		0.684 (U)		0.61 (U)
9/21/2022	0.992 (U)				1.1 (U)	
4/19/2023		0.125 (U)			0.565 (U)	
4/24/2023				0.278 (U)		
4/25/2023	0.577 (U)					0.735 (U)
4/26/2023			0.521 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.251 (U)	-0.019 (U)
9/26/2016					0.638	0.488 (U)
10/31/2016					0.521 (U)	0.147 (U)
1/9/2017					0.744	0.288 (U)
2/13/2017					-0.0115 (U)	0.226 (U)
4/3/2017					0.0879 (U)	-0.154 (U)
5/16/2017					0.137 (U)	0.303 (U)
6/12/2017					0.589	0.645
1/29/2018					0.634	0.627
5/10/2018					0.147 (U)	-0.0676 (U)
10/9/2018					0.693	0.571
4/22/2019						0.678
4/29/2019					0.0878 (U)	
8/27/2019					0.491 (U)	1.17
3/3/2020					0.258 (U)	0.821
3/9/2020	0.875			0.418 (U)		
3/10/2020		0.943				
10/13/2020		0.0328 (U)			-0.209 (U)	-0.0678 (U)
10/19/2020				-0.0717 (U)		
10/21/2020	0.53					
10/27/2020			0.0202 (U)			
4/21/2021	0.745 (U)		0.74 (U)			
5/3/2021				0.651 (U)		
5/5/2021		0.466 (U)			1.06 (U)	0.195 (U)
9/7/2021		0.878 (U)			0.332 (U)	0.0456 (U)
9/13/2021	0.761 (U)		0.572 (U)			
9/15/2021				0.886 (U)		
3/8/2022		1.37				
3/9/2022	0.822 (U)					
3/16/2022			0.417 (U)		0.257 (U)	0.207 (U)
3/17/2022				0.173 (U)		
9/14/2022			0.748 (U)			
9/19/2022	1.18 (U)	0.386 (U)			0.804 (U)	0.714 (U)
9/27/2022				0.253 (U)		
4/18/2023		0.613 (U)		0.497 (U)		
4/25/2023			0.619 (U)			
5/2/2023	0.915 (U)				0.857 (U)	1.05 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.621					
7/26/2016			0.205 (U)	0.459 (U)		
9/27/2016	0.529 (U)					
9/28/2016			0.403 (U)	0.0516 (U)		
11/1/2016	0.142 (U)			0.279 (U)		
11/2/2016			0.483 (U)			
1/9/2017	0.54 (U)			0.114 (U)		
1/10/2017			0.687			
2/13/2017	0.764			-0.0383 (U)		
2/14/2017			0.5 (U)			
4/3/2017			0.637	0.429 (U)		
4/4/2017	-0.136 (U)					
5/16/2017	0.247 (U)			0.0754 (U)		
5/17/2017			0.421 (U)			
6/12/2017	0.6		0.353 (U)	0.506		
1/29/2018	0.786					
1/31/2018			0.38 (U)	0.433 (U)		
5/9/2018	-0.00808 (U)		0.515 (U)	0.106 (U)		
10/8/2018	0.311 (U)		0.921	0.612		
3/5/2019		0.244 (U)			0.66	
4/23/2019			1.12	0.356		
4/29/2019	0.039 (U)					
8/27/2019	0.533	0.948				
8/28/2019			0.81	0.268 (U)	0.389 (U)	
3/2/2020			0.407 (U)			
3/3/2020				0.177 (U)	-0.0545 (U)	
3/4/2020	0.31 (U)	0.16 (U)				
10/14/2020	0.434 (U)	0.505				
10/19/2020					0.106 (U)	
10/20/2020				0.321 (U)		0.197 (U)
10/21/2020			-0.12 (U)			
4/26/2021	0.394 (U)	0.233 (U)				
4/27/2021						0.334 (U)
4/28/2021				0.156 (U)	0.0421 (U)	
5/3/2021			0.646 (U)			
9/1/2021	0.238 (U)	0 (U)		0.132 (U)		1.4
9/8/2021			0.745 (U)		0.891 (U)	
3/8/2022						0.263 (U)
3/14/2022			0.571 (U)			
3/15/2022	0.285 (U)	0.496 (U)				
3/16/2022				0.199 (U)	0.493 (U)	
9/20/2022			0.714 (U)			0.872 (U)
9/21/2022				0.398 (U)		
9/26/2022	0.525 (U)	1.04 (U)			0.85 (U)	
4/24/2023					1.27	0.863 (U)
4/25/2023			1.49	0.257 (U)		
5/2/2023	0.203 (U)	0.838 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.331 (U)
9/28/2016				0.556 (U)
11/2/2016				0.217 (U)
1/12/2017				0.432 (U)
2/13/2017				0.279 (U)
4/3/2017				0.195 (U)
5/17/2017				0.569 (U)
6/12/2017				0.48 (U)
1/31/2018				0.851
5/9/2018				0.171 (U)
10/8/2018				0.44 (U)
4/23/2019				0.267 (U)
8/29/2019				0.355 (U)
3/2/2020				0.213 (U)
10/15/2020		0.897	0.222 (U)	
10/20/2020	0.398 (U)			
10/21/2020				0.0492 (U)
4/27/2021	0.846 (U)	0.699 (U)	0.157 (U)	
5/3/2021				0.328 (U)
9/1/2021	0.627 (U)	0.667 (U)	0.272 (U)	
9/8/2021				1.16 (U)
3/8/2022	0.649 (U)	0.145 (U)	0.447 (U)	
3/14/2022				0.253 (U)
9/20/2022	0.445 (U)			0.47 (U)
9/21/2022		1.24	0.391 (U)	
4/24/2023	0.804 (U)			
4/25/2023				0.537 (U)
5/3/2023		0.453 (U)	0.709 (U)	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.134 (J)	0.439	0.155 (J)
8/2/2016	0.161 (J)					
8/3/2016			0.125 (J)			
9/20/2016	0.122 (J)					
9/21/2016			0.098 (J)			
9/26/2016				0.061 (J)		
9/27/2016					0.336	0.097 (J)
10/25/2016	0.058 (J)		0.025 (J)			
10/31/2016					0.26 (J)	
11/1/2016						0.038 (J)
11/2/2016				0.024 (J)		
12/13/2016	0.072 (J)		0.045 (J)			
1/11/2017				<0.3	0.21 (J)	
1/12/2017						<0.3
2/6/2017			0.1 (D)			
2/8/2017	0.16 (D)					
2/13/2017				0.13		0.13
2/14/2017					0.34	
3/28/2017			0.08 (JD)			
3/29/2017	0.14 (D)					
4/3/2017				0.15		
4/4/2017						0.14
4/6/2017					0.38	
4/24/2017			0.09 (JD)			
4/26/2017	0.16 (D)					
5/15/2017				0.14		
5/16/2017						0.14
5/17/2017					0.33	
6/7/2017	0.15		0.08 (J)			
6/13/2017					0.34	
6/14/2017				0.15		0.14
8/21/2017			0.08 (J)			
8/22/2017	0.18					
9/19/2017				0.17		0.16
9/21/2017					0.43	
1/31/2018					0.42	
2/1/2018				0.15		0.12
2/19/2018			0.08 (J)			
2/20/2018	0.17					
5/8/2018						0.13
5/9/2018				0.17		
5/10/2018					0.42	
5/15/2018	0.17		0.1			
10/8/2018					0.49	
10/9/2018				0.19		0.15
10/16/2018			0.09 (J)			
10/17/2018	0.19					
2/20/2019		0.239				
4/16/2019	0.197		0.143			
4/24/2019					0.433	
5/1/2019				0.143		0.118
8/27/2019				0.159		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
8/28/2019						0.13
8/29/2019					0.445	
9/24/2019	0.245		0.128			
3/3/2020						0.134
3/9/2020				0.179	0.517	
3/18/2020			0.108			
3/25/2020	0.243					
9/21/2020			0.125			
9/23/2020	0.278					
10/19/2020				0.16	0.608	
10/20/2020						0.126
2/2/2021	0.244		0.114			
4/20/2021				0.165		
4/21/2021						0.111
5/3/2021					0.599	
8/2/2021	0.276					
8/10/2021			0.0924 (J)			
9/8/2021				0.188		
9/14/2021						0.136
9/15/2021					0.727	
2/14/2022	0.237					
2/16/2022			0.0616 (J)			
3/15/2022				0.142		
3/16/2022						0.107 (J)
3/17/2022					1.86	
8/2/2022			0.0815 (J)			
8/9/2022	0.245					
9/19/2022				0.164		
9/20/2022						0.0923 (J)
9/26/2022					1.12	
3/22/2023	0.198					
3/27/2023			0.112 (J)			
5/2/2023				0.181		
5/3/2023					0.902	0.172

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					0.111 (J)	0.194 (J)
7/20/2016	0.701					
9/26/2016					0.069 (J)	0.158 (J)
9/27/2016	0.597					
10/31/2016					0.018 (J)	0.068 (J)
11/1/2016	0.502					
1/9/2017					<0.125	<0.3
1/11/2017	0.472					
2/14/2017					0.1	0.14
2/15/2017	0.59					
4/3/2017						0.13
4/4/2017	0.67				0.1	
5/15/2017	0.63					
5/16/2017					0.1	0.13
6/12/2017					0.1	0.14
6/14/2017	0.63					
9/19/2017					0.12	0.16
9/21/2017	0.66					
1/30/2018	0.69					
1/31/2018					0.1	
2/1/2018						0.12
5/7/2018					0.11	0.16
5/8/2018	0.65					
10/8/2018	0.85					
10/9/2018					0.13	0.18
4/24/2019					0.133	0.225
8/28/2019	0.916				0.0974 (J)	0.29
3/3/2020						0.179
3/4/2020					0.111	
3/10/2020	0.929					
10/13/2020					0.125	0.145
10/19/2020	0.978					
10/20/2020		0.146	0.434	0.177		
4/21/2021		0.134	0.402	0.166		0.173
4/26/2021					0.117	
5/5/2021	0.958					
9/1/2021					0.118	0.14
9/7/2021	0.843	0.183	0.532			
9/13/2021				0.171		
3/8/2022						0.155
3/9/2022		0.179	0.573	0.188	0.103 (J)	
3/17/2022	1.21					
9/19/2022		0.156	0.407			
9/20/2022					<0.125	0.145
9/26/2022	0.989			0.215		
4/18/2023		0.264	0.124 (J)			
4/19/2023					0.119 (J)	0.16
5/2/2023				0.167		
5/3/2023	1.18					

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.094 (J)		
9/28/2016				0.035 (J)		
11/1/2016				<0.3		
1/11/2017				<0.3		
2/14/2017				0.05 (J)		
4/4/2017				0.07 (J)		
5/16/2017				0.07 (J)		
6/14/2017				0.06 (J)		
9/20/2017				0.12		
2/1/2018				0.1		
5/9/2018				0.13		
10/9/2018				0.1		
3/6/2019	0.133	0.256			0.234	<0.125
5/1/2019				0.108		
8/27/2019	0.16	0.26		0.19		
9/3/2019					0.279	<0.125
3/3/2020				0.262		
3/9/2020			2.41			
3/10/2020	0.166	0.261			0.297	0.0631 (J)
10/13/2020	0.171	0.272				
10/14/2020			2.32			
10/19/2020					0.311	<0.125
10/21/2020				0.236		
4/20/2021			2.51			
4/26/2021				0.406		
4/28/2021					0.303	
5/3/2021						0.0639 (J)
5/5/2021	0.159	0.242				
9/7/2021	0.213					
9/8/2021					0.347	<0.125
9/13/2021			2.59			
9/14/2021		0.273		0.24		
3/8/2022	0.158	0.294				
3/9/2022			2.4		0.329	<0.125
3/16/2022				0.268		
9/14/2022	0.206		1.9			
9/21/2022		0.213			0.289	<0.125
9/26/2022				0.211		
4/19/2023	0.141				0.32	0.0718 (J)
5/1/2023			2.07			
5/2/2023		0.284		0.321		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.169					
8/28/2019	0.212					
3/9/2020	0.285			0.419		
10/13/2020	0.283					
10/14/2020				0.337	0.422	0.429
10/20/2020			0.311			
10/26/2020	0.142					
4/20/2021			0.246	0.158		
4/27/2021		0.205				0.363
4/28/2021	0.217					
5/5/2021				0.409		
6/16/2021		0.255	0.283	0.231		0.412
9/14/2021	0.2	0.156				
9/15/2021			0.28	0.208	0.433	0.436
3/15/2022					0.403	
3/16/2022			0.222	0.145		0.394
3/17/2022	0.127	0.116 (J)				
9/14/2022					0.41	0.393
9/21/2022		0.142	0.185	0.124 (J)		
9/26/2022	0.158					
5/1/2023				0.371		0.412
5/2/2023	0.223					
5/3/2023		0.334	0.227	0.152		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.173
3/9/2020		0.117				
3/10/2020			0.172		0.132	
10/14/2020						0.223
10/15/2020					0.151	
10/19/2020		0.154				
10/20/2020			0.158			
10/26/2020	0.161					
10/27/2020				0.14		
4/20/2021		0.123				
4/21/2021			0.141			
4/27/2021				0.144		
4/28/2021					0.133	
5/3/2021	0.171					0.185
9/8/2021						0.204
9/13/2021		0.145	0.171	0.164		
9/14/2021	0.175				0.275	
3/9/2022					0.138	
3/14/2022	0.116 (J)	0.111 (J)				0.186
3/16/2022			0.142	<0.125		
9/19/2022			0.12 (J)			
9/20/2022		0.132		0.0929 (J)		0.193
9/21/2022	0.0743 (J)				0.0663 (J)	
4/19/2023		0.147			0.135	
4/24/2023				0.133		
4/25/2023	0.147					0.221
4/26/2023			0.142			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.268 (J)	0.217 (J)
9/26/2016					0.213 (J)	0.192 (J)
10/31/2016					0.158 (J)	0.157 (J)
1/9/2017					0.109 (J)	0.115 (J)
2/13/2017					0.29	0.27
4/3/2017					0.28	0.25
5/16/2017					0.3	0.24
6/12/2017					0.29	0.26
9/20/2017					0.35	0.26
1/29/2018					0.35	0.31
5/10/2018					0.37	0.31
10/9/2018					0.39	0.33
4/22/2019						0.335
4/29/2019					0.343	
8/27/2019					0.361	0.294
3/3/2020					0.397	0.286
3/9/2020	0.361			0.173		
3/10/2020		0.16				
10/13/2020		0.16			0.362	0.311
10/19/2020				0.178		
10/21/2020	0.429					
10/27/2020			0.272			
4/21/2021	0.4		0.412			
5/3/2021				0.167		
5/5/2021		0.139			0.351	0.291
9/7/2021		0.155			0.433	0.361
9/13/2021	0.42		0.49			
9/15/2021				0.201		
3/8/2022		0.129				
3/9/2022	0.302					
3/16/2022			0.4		0.388	0.309
3/17/2022				0.132		
9/14/2022			0.342			
9/19/2022	0.33	0.0646 (J)			0.341	0.304
9/27/2022				0.178		
4/18/2023		0.151		0.185		
4/25/2023			0.295			
5/2/2023	0.4				0.348	0.311

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.252 (J)					
7/26/2016			0.296 (J)	0.108 (J)		
9/27/2016	0.209 (J)					
9/28/2016			0.224 (J)	0.054 (J)		
11/1/2016	0.163 (J)			<0.125		
11/2/2016			0.164 (J)			
1/9/2017	0.13 (J)			<0.125		
1/10/2017			0.114 (J)			
2/13/2017	0.28			0.08 (J)		
2/14/2017			0.31			
4/3/2017			0.3	0.07 (J)		
4/4/2017	0.27					
5/16/2017	0.28			0.09 (J)		
5/17/2017			0.29			
6/12/2017	0.27		0.29	0.1		
9/18/2017			0.37	0.11		
9/20/2017	0.31					
1/29/2018	0.28					
2/1/2018			0.35	0.1		
5/9/2018	0.28		0.36	0.09 (J)		
10/8/2018	0.32		0.43	0.13		
3/5/2019		0.144			0.14	
4/23/2019			0.407	0.167		
4/29/2019	0.226					
8/27/2019	0.237	0.181				
8/28/2019			0.385	0.105	0.155	
3/2/2020			0.382			
3/3/2020				0.121	0.141	
3/4/2020	0.221	0.0996 (J)				
10/14/2020	0.251	0.125				
10/19/2020					0.16	
10/20/2020				0.109		0.122
10/21/2020			0.427			
4/26/2021	0.204	0.106				
4/27/2021						0.126
4/28/2021				0.183	0.142	
5/3/2021			0.388			
9/1/2021	0.281	0.143		0.118		0.16
9/8/2021			0.433		0.178	
3/8/2022						<0.125
3/14/2022			0.405			
3/15/2022	0.154	0.244				
3/16/2022				0.155	0.145	
9/20/2022			0.384			<0.125
9/21/2022				<0.125		
9/26/2022	0.22	0.347			0.152	
4/24/2023					0.185	0.115 (J)
4/25/2023			0.424	0.0863 (J)		
5/2/2023	0.17	0.257				

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				1.05
9/28/2016				0.799
11/2/2016				0.627
1/12/2017				0.609
2/13/2017				0.88
4/3/2017				1.1
5/17/2017				1
6/12/2017				1.1
9/18/2017				1.1
2/1/2018				1
5/9/2018				1.1
10/8/2018				1.3
4/23/2019				1.33
8/29/2019				2.07
3/2/2020				1.9
10/15/2020		0.129	0.114	
10/20/2020	0.222			
10/21/2020				1.89
4/27/2021	0.242	0.149	0.125	
5/3/2021				2.38
9/1/2021	0.245	0.197	0.162	
9/8/2021				2.27
3/8/2022	0.223	0.11 (J)	0.125	
3/14/2022				2.28
9/20/2022	0.177			2.39
9/21/2022		0.178	0.0775 (J)	
4/24/2023	0.195			
4/25/2023				2.23
5/3/2023		0.281	0.138	

Time Series

Constituent: Lead (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.000203	<0.000203	<0.000203
8/2/2016	<0.005					
8/3/2016			<0.000203			
9/20/2016	<0.005					
9/21/2016			<0.000203			
9/26/2016				<0.000203		
9/27/2016					<0.000203	<0.000203
10/25/2016	<0.005		<0.000203			
10/31/2016					<0.000203	
11/1/2016						<0.000203
11/2/2016				<0.000203		
12/13/2016	<0.005		<0.000203			
1/11/2017				<0.000203	<0.000203	
1/12/2017						<0.000203
2/6/2017			<0.000203			
2/8/2017	<0.005					
2/13/2017				<0.000203		<0.000203
2/14/2017					<0.000203	
3/28/2017			<0.000203			
3/29/2017	<0.005					
4/3/2017				<0.000203		
4/4/2017						<0.000203
4/6/2017					<0.000203	
4/24/2017			<0.000203			
4/26/2017	<0.005					
5/15/2017				<0.000203		
5/16/2017						<0.000203
5/17/2017					<0.000203	
6/7/2017	<0.005		<0.000203			
6/13/2017					<0.000203	
6/14/2017				<0.000203		<0.000203
1/31/2018					<0.000203	
2/1/2018				<0.000203		<0.000203
2/19/2018			<0.000203			
2/20/2018	<0.005					
5/8/2018						<0.000203
5/9/2018				<0.000203		
5/10/2018					<0.000203	
5/15/2018	<0.005		<0.000203			
10/8/2018					<0.000203	
10/9/2018				<0.000203		<0.000203
10/16/2018			<0.000203			
10/17/2018	<0.005					
2/20/2019		0.00189 (J)				
4/16/2019	<0.005		<0.000203			
4/24/2019					<0.000203	
5/1/2019				<0.000203		<0.000203
8/27/2019				<0.000203		
8/28/2019						<0.000203
8/29/2019					<0.000203	
9/24/2019		<0.000203	<0.000203			
3/3/2020						<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.000203	<0.000203	
3/18/2020			<0.000203			
3/25/2020	<0.000203					
9/21/2020			<0.000203			
9/23/2020	<0.000203					
10/19/2020				<0.000203	<0.000203	
10/20/2020						<0.000203
2/2/2021	<0.000203		8.09E-05 (J)			
4/20/2021				<0.000203		
4/21/2021						<0.000203
5/3/2021					<0.000203	
8/2/2021	<0.000203					
8/10/2021			0.00015 (J)			
9/8/2021				<0.000203		
9/14/2021						<0.000203
9/15/2021					<0.000203	
2/14/2022	<0.000203					
2/16/2022			<0.000203			
3/15/2022				<0.000203		
3/16/2022						<0.000203
3/17/2022					<0.000203	
8/2/2022			8.3E-05 (J)			
8/9/2022	<0.000203					
9/19/2022				<0.000203		
9/20/2022						<0.000203
9/26/2022					<0.000203	
3/22/2023	<0.000203					
3/27/2023			<0.000203			
5/2/2023				<0.000203		
5/3/2023					<0.000203	<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.000203	<0.000203
7/20/2016	<0.000203					
9/26/2016					<0.000203	<0.000203
9/27/2016	<0.000203					
10/31/2016					<0.000203	<0.000203
11/1/2016	<0.000203					
1/9/2017					<0.000203	<0.000203
1/11/2017	<0.000203					
2/14/2017					<0.000203	<0.000203
2/15/2017	<0.000203					
4/3/2017						<0.000203
4/4/2017	<0.000203				<0.000203	
5/15/2017	<0.000203					
5/16/2017					<0.000203	<0.000203
6/12/2017					<0.000203	<0.000203
6/14/2017	<0.000203					
1/30/2018	<0.000203					
1/31/2018					<0.000203	
2/1/2018						<0.000203
5/7/2018					<0.000203	<0.000203
5/8/2018	<0.000203					
10/8/2018	<0.000203					
10/9/2018					<0.000203	<0.000203
4/24/2019					<0.000203	<0.000203
8/28/2019	<0.000203				<0.000203	<0.000203
3/3/2020						<0.000203
3/4/2020					<0.000203	
3/10/2020	<0.000203					
10/13/2020					<0.000203	<0.000203
10/19/2020	<0.000203					
10/20/2020		<0.000203	<0.0002	<0.000203		
4/21/2021		0.000121 (J)	<0.0002	<0.000203		<0.000203
4/26/2021					<0.000203	
5/5/2021	<0.000203					
9/1/2021					<0.000203	<0.000203
9/7/2021	<0.000203	<0.000203	<0.0002			
9/13/2021				<0.000203		
3/8/2022						<0.000203
3/9/2022		<0.000203	0.00011 (J)	<0.000203	<0.000203	
3/17/2022	<0.000203					
9/19/2022		<0.000203	0.0004			
9/20/2022					<0.000203	<0.000203
9/26/2022	<0.000203				<0.000203	
4/18/2023		<0.000203	0.00101			
4/19/2023					<0.000203	<0.000203
5/2/2023				<0.000203		
5/3/2023	<0.000203					

Time Series

Constituent: Lead (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.000203		
9/28/2016				<0.000203		
11/1/2016				<0.000203		
1/11/2017				<0.000203		
2/14/2017				<0.000203		
4/4/2017				<0.000203		
5/16/2017				<0.000203		
6/14/2017				<0.000203		
2/1/2018				<0.000203		
5/9/2018				<0.000203		
10/9/2018				<0.000203		
3/6/2019	<0.000203	<0.0002			<0.000203	<0.000203
5/1/2019				<0.000203		
8/27/2019	<0.000203	<0.0002		<0.000203		
9/3/2019					<0.000203	<0.000203
3/3/2020				<0.000203		
3/9/2020			0.0023 (J)			
3/10/2020	<0.000203	<0.0002			<0.000203	<0.000203
10/13/2020	<0.000203	<0.0002				
10/14/2020			<0.000203			
10/19/2020					<0.000203	<0.000203
10/21/2020				<0.000203		
4/20/2021			<0.000203			
4/26/2021				<0.000203		
4/28/2021					<0.000203	
5/3/2021						<0.000203
5/5/2021	0.00116	<0.0002				
9/7/2021	<0.000203					
9/8/2021					<0.000203	<0.000203
9/13/2021			<0.000203			
9/14/2021		<0.0002		<0.000203		
3/8/2022	<0.000203	<0.0002				
3/9/2022			<0.000203		<0.000203	<0.000203
3/16/2022				<0.000203		
9/14/2022	<0.000203		<0.000203			
9/21/2022		<0.0002			<0.000203	<0.000203
9/26/2022				<0.000203		
4/19/2023	<0.000203				<0.000203	<0.000203
5/1/2023			<0.000203			
5/2/2023		0.000117 (J)		<0.000203		

Time Series

Constituent: Lead (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.000203					
8/28/2019	<0.000203					
3/9/2020	<0.000203				<0.000203	
10/13/2020	<0.000203					
10/14/2020				<0.000203	<0.000203	<0.000203
10/20/2020			<0.000203			
10/26/2020	<0.000203					
4/20/2021			<0.000203	<0.000203		
4/27/2021	<0.000203					<0.000203
4/28/2021	0.000323					
5/5/2021					0.00019 (J)	
6/16/2021		7E-05 (J)	<0.000203	<0.000203		<0.000203
9/14/2021	0.0002 (J)	<0.000203				
9/15/2021			<0.000203	<0.000203	<0.000203	<0.000203
3/15/2022					<0.000203	
3/16/2022			<0.000203	<0.000203		<0.000203
3/17/2022	<0.000203	<0.000203				
9/14/2022					<0.000203	<0.000203
9/21/2022		<0.000203	<0.000203	<0.000203		
9/26/2022	<0.000203					
5/1/2023					<0.000203	<0.000203
5/2/2023	<0.000203					
5/3/2023		<0.000203	<0.000203	<0.000203		

Time Series

Constituent: Lead (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.000203
3/9/2020		<0.000203				
3/10/2020			<0.000203		<0.000203	
10/14/2020						<0.000203
10/15/2020					<0.000203	
10/19/2020		<0.000203				
10/20/2020			<0.000203			
10/26/2020	<0.000203					
10/27/2020				<0.000203		
4/20/2021		<0.000203				
4/21/2021			<0.000203			
4/27/2021				<0.000203		
4/28/2021					<0.000203	
5/3/2021	0.000258					6.88E-05 (J)
9/8/2021						0.0001 (J)
9/13/2021		<0.000203	<0.000203	<0.000203		
9/14/2021	<0.000203				<0.000203	
3/9/2022					<0.000203	
3/14/2022	0.0001 (J)	<0.000203				<0.000203
3/16/2022			<0.000203	<0.000203		
9/19/2022			<0.000203			
9/20/2022		<0.000203		<0.000203		<0.000203
9/21/2022	<0.000203				<0.000203	
4/19/2023		<0.000203			<0.000203	
4/24/2023				<0.000203		
4/25/2023	<0.000203					<0.000203
4/26/2023			<0.000203			

Time Series

Constituent: Lead (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.000203	<0.000203
9/26/2016					<0.000203	<0.000203
10/31/2016					<0.000203	<0.000203
1/9/2017					<0.000203	<0.000203
2/13/2017					<0.000203	<0.000203
4/3/2017					<0.000203	<0.000203
5/16/2017					<0.000203	<0.000203
6/12/2017					<0.000203	<0.000203
1/29/2018					<0.000203	<0.000203
5/10/2018					<0.000203	<0.000203
10/9/2018					<0.000203	<0.000203
4/22/2019						<0.000203
4/29/2019					<0.000203	
8/27/2019					<0.000203	<0.000203
3/3/2020					<0.000203	<0.000203
3/9/2020	<0.000203			<0.000203		
3/10/2020		<0.0002				
10/13/2020		<0.0002			<0.000203	<0.000203
10/19/2020				<0.000203		
10/21/2020	<0.000203					
10/27/2020			<0.000203			
4/21/2021	<0.000203		<0.000203			
5/3/2021				<0.000203		
5/5/2021		<0.0002			8.4E-05 (J)	<0.000203
9/7/2021		<0.0002			<0.000203	<0.000203
9/13/2021	<0.000203		<0.000203			
9/15/2021				<0.000203		
3/8/2022		<0.0002				
3/9/2022	<0.000203					
3/16/2022			<0.000203		<0.000203	<0.000203
3/17/2022				<0.000203		
9/14/2022			<0.000203			
9/19/2022	<0.000203	<0.0002			<0.000203	<0.000203
9/27/2022				<0.000203		
4/18/2023		7.4E-05 (J)		<0.000203		
4/25/2023			<0.000203			
5/2/2023	<0.000203				<0.000203	<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.000203					
7/26/2016			<0.000203	<0.000203		
9/27/2016	<0.000203					
9/28/2016			<0.000203	<0.000203		
11/1/2016	<0.000203			<0.000203		
11/2/2016			<0.000203			
1/9/2017	<0.000203			<0.000203		
1/10/2017			<0.000203			
2/13/2017	<0.000203			<0.000203		
2/14/2017			<0.000203			
4/3/2017			<0.000203	<0.000203		
4/4/2017	<0.000203					
5/16/2017	<0.000203			<0.000203		
5/17/2017			<0.000203			
6/12/2017	<0.000203		<0.000203	<0.000203		
1/29/2018	<0.000203					
2/1/2018			<0.000203	<0.000203		
5/9/2018	<0.000203		<0.000203	<0.000203		
10/8/2018	<0.000203		<0.000203	<0.000203		
3/5/2019		<0.0002			<0.0002	
4/23/2019			<0.000203	<0.000203		
4/29/2019	<0.000203					
8/27/2019	<0.000203	<0.0002				
8/28/2019			<0.000203	<0.000203	<0.0002	
3/2/2020			<0.000203			
3/3/2020				<0.000203	<0.0002	
3/4/2020	<0.000203	<0.0002				
10/14/2020	<0.000203	<0.0002				
10/19/2020					<0.0002	
10/20/2020				<0.000203		<0.000203
10/21/2020			<0.000203			
4/26/2021	<0.000203	<0.0002				
4/27/2021						<0.000203
4/28/2021				<0.000203	<0.0002	
5/3/2021			<0.000203			
9/1/2021	<0.000203	<0.0002		<0.000203		<0.000203
9/8/2021			<0.000203		<0.0002	
3/8/2022						<0.000203
3/14/2022			<0.000203			
3/15/2022	<0.000203	<0.0002				
3/16/2022				<0.000203	<0.0002	
9/20/2022			<0.000203			<0.000203
9/21/2022				<0.000203		
9/26/2022	<0.000203	7.4E-05 (J)			0.000416	
4/24/2023					0.000991	<0.000203
4/25/2023			<0.000203	<0.000203		
5/2/2023	<0.000203	0.000167 (J)				

Time Series

Constituent: Lead (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.000203
9/28/2016				<0.000203
11/2/2016				<0.000203
1/12/2017				<0.000203
2/13/2017				<0.000203
4/3/2017				<0.000203
5/17/2017				<0.000203
6/12/2017				<0.000203
2/1/2018				<0.000203
5/9/2018				<0.000203
10/8/2018				<0.000203
4/23/2019				<0.000203
8/29/2019				<0.000203
3/2/2020				<0.000203
10/15/2020		<0.000203	<0.000203	
10/20/2020	<0.000203			
10/21/2020				<0.000203
4/27/2021	<0.000203	<0.000203	<0.000203	
5/3/2021				<0.000203
9/1/2021	<0.000203	<0.000203	<0.000203	
9/8/2021				<0.000203
3/8/2022	<0.000203	<0.000203	<0.000203	
3/14/2022				<0.000203
9/20/2022	<0.000203			<0.000203
9/21/2022		<0.000203	<0.000203	
4/24/2023	<0.000203			
4/25/2023				<0.000203
5/3/2023		<0.000203	<0.000203	

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.187	0.189	0.119
8/2/2016	0.0121 (J)					
8/3/2016			0.05			
9/20/2016	0.0116 (J)					
9/21/2016			0.05			
9/26/2016				0.134		
9/27/2016					0.171	0.108
10/25/2016	0.0114 (J)		0.05			
10/31/2016					0.181	
11/1/2016						0.116
11/2/2016				0.137		
12/13/2016	0.0116 (J)		0.05			
1/11/2017				0.137	0.172	
1/12/2017						0.12
2/6/2017			0.05			
2/8/2017	0.0118 (J)					
2/13/2017				0.187		0.149
2/14/2017					0.209	
3/28/2017			0.05			
3/29/2017	0.0118 (J)					
4/3/2017				0.225		
4/4/2017						0.154
4/6/2017					0.203	
4/24/2017			0.05			
4/26/2017	0.05					
5/15/2017				0.15		
5/16/2017						0.128
5/17/2017					0.163	
6/7/2017	<0.02		<0.02			
6/13/2017					0.155	
6/14/2017				0.165		0.118
1/31/2018					0.163	
2/1/2018				0.124		0.229
2/19/2018			<0.02			
2/20/2018	<0.02					
5/8/2018						0.246
5/9/2018				0.166		
5/10/2018					0.178	
5/15/2018	0.0101 (J)		<0.02			
10/8/2018					0.184	
10/9/2018				0.136		0.307
10/16/2018			<0.02			
10/17/2018	<0.02					
2/20/2019		0.0671				
4/16/2019	0.0101 (J)		<0.02			
4/24/2019					0.186	
5/1/2019				0.104		0.327
8/27/2019				0.264		
8/28/2019						0.318
8/29/2019					0.197	
9/24/2019		0.0809	<0.02			
3/3/2020						0.255

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.123	0.225	
3/18/2020			<0.02			
3/25/2020	0.0646					
9/21/2020			<0.02			
9/23/2020	0.0574					
10/19/2020				0.09	0.166	
10/20/2020						0.297
2/2/2021	0.0585		0.00796 (J)			
4/20/2021				0.154		
4/21/2021						0.421
5/3/2021					0.19	
8/2/2021	0.056					
8/10/2021			0.00832 (J)			
9/8/2021				0.179		
9/14/2021						0.374
9/15/2021					0.187	
2/14/2022	0.0499					
2/16/2022			0.00826 (J)			
3/15/2022				0.156		
3/16/2022						0.172
3/17/2022					0.174	
8/2/2022			0.01 (J)			
8/9/2022	0.0555					
9/19/2022				0.204		
9/20/2022						0.173
9/26/2022					0.267	
3/22/2023	0.0507					
3/27/2023			0.00968 (J)			
5/2/2023				0.206		
5/3/2023					0.354	0.144

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					0.0199 (J)	0.0816
7/20/2016	0.229					
9/26/2016					0.0206 (J)	0.0636
9/27/2016	0.198					
10/31/2016					0.021 (J)	0.0759
11/1/2016	0.204					
1/9/2017					0.0201 (J)	0.0254 (J)
1/11/2017	0.205					
2/14/2017					0.022 (J)	0.0859
2/15/2017	0.274					
4/3/2017						0.0487 (J)
4/4/2017	0.279				0.0216 (J)	
5/15/2017	0.206					
5/16/2017					0.021 (J)	0.0297 (J)
6/12/2017					0.0181 (J)	0.0429 (J)
6/14/2017	0.205					
1/30/2018	0.178					
1/31/2018					0.0169 (J)	
2/1/2018						0.026 (J)
5/7/2018					0.0187 (J)	0.0538
5/8/2018	0.199					
10/8/2018	0.19					
10/9/2018					0.019 (J)	0.0285
4/24/2019					<0.0406	0.0295 (J)
8/28/2019	0.158				0.0199 (J)	0.0555
3/3/2020						0.0278
3/4/2020					0.0195 (J)	
3/10/2020	0.146					
10/13/2020					0.0195 (J)	0.132
10/19/2020	0.12					
10/20/2020		0.0343	0.0475	0.0207		
4/21/2021		0.0356	0.0237	0.0211		0.128
4/26/2021					0.0194 (J)	
5/5/2021	0.124 (R)					
9/1/2021					0.0196 (J)	0.104
9/7/2021	0.176	0.0357	0.0258			
9/13/2021				0.0212		
3/8/2022						0.0901
3/9/2022		0.031	0.0215	0.0196 (J)	0.0177 (J)	
3/17/2022	0.104					
9/19/2022		0.037	0.028			
9/20/2022					0.023	0.177
9/26/2022	0.233			0.0204		
4/18/2023		0.0382	0.0199 (J)			
4/19/2023					0.0226	0.0713
5/2/2023				0.0206		
5/3/2023	0.077					

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.163		
9/28/2016				0.197		
11/1/2016				0.172		
1/11/2017				0.19		
2/14/2017				0.292		
4/4/2017				0.292		
5/16/2017				0.25		
6/14/2017				0.237		
2/1/2018				0.222		
5/9/2018				0.237		
10/9/2018				0.25		
3/6/2019	0.0597	0.1			0.235	0.0987
5/1/2019				0.228		
8/27/2019	0.0831	0.23		0.257		
9/3/2019					0.278	0.0973
3/3/2020				0.269		
3/9/2020			0.138			
3/10/2020	0.0566	0.0875			0.277	0.094
10/13/2020	0.0845	0.215				
10/14/2020			0.173			
10/19/2020					0.245	0.0797
10/21/2020				0.217		
4/20/2021			0.183			
4/26/2021				0.268		
4/28/2021					0.267	
5/3/2021						0.0783
5/5/2021	0.116	0.167				
9/7/2021	0.0826					
9/8/2021					0.269	0.0783
9/13/2021			0.169			
9/14/2021		0.188		0.27		
3/8/2022	0.0644	0.0926				
3/9/2022			0.124		0.217	0.0594
3/16/2022				0.211		
9/14/2022	0.0898		0.149			
9/21/2022		0.154			0.215	0.0512
9/26/2022				0.221		
4/19/2023	0.0663				0.212	0.0415
5/1/2023			0.195			
5/2/2023		0.112		0.273		

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.0484					
8/28/2019	0.0493					
3/9/2020	0.0252			1.18		
10/13/2020	0.0379					
10/14/2020			0.172	1.2	1.17	
10/20/2020		0.141				
10/26/2020	0.344					
4/20/2021		0.0728	0.0694			
4/27/2021	0.406				1.05	
4/28/2021	0.045					
5/5/2021				1.13		
6/16/2021	0.342	0.0738	0.0722		0.873	
9/14/2021	0.0657	0.46				
9/15/2021		0.0621	0.071	1.16	1.04	
3/15/2022				0.911		
3/16/2022		0.0469	0.0626		0.815	
3/17/2022	0.054	0.369				
9/14/2022				0.87	0.774	
9/21/2022		0.373	0.0542	0.0648		
9/26/2022	0.0548					
5/1/2023				1.3	1.18	
5/2/2023	0.0448					
5/3/2023		0.17	0.0503	0.0756		

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.145
3/9/2020		0.0593				
3/10/2020			0.0821		<0.02	
10/14/2020						0.155
10/15/2020					<0.02	
10/19/2020		0.058				
10/20/2020			0.0918			
10/26/2020	0.0427					
10/27/2020				0.135		
4/20/2021		0.0576				
4/21/2021			0.108			
4/27/2021				0.145		
4/28/2021					<0.02	
5/3/2021	0.0441					0.153
9/8/2021						0.175
9/13/2021		0.0606	0.0967	0.147		
9/14/2021	0.0441				<0.02	
3/9/2022					<0.02	
3/14/2022	0.0415	0.0531				0.132
3/16/2022			0.088	0.117		
9/19/2022			0.0948			
9/20/2022		0.0506		0.124		0.158
9/21/2022	0.0404				<0.02	
4/19/2023		0.0487			<0.02	
4/24/2023				0.137		
4/25/2023	0.0489					0.174
4/26/2023			0.107			

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.128	0.186
9/26/2016					0.12	0.149
10/31/2016					0.128	0.161
1/9/2017					0.124	0.156
2/13/2017					0.167	0.244
4/3/2017					0.163	0.25
5/16/2017					0.12	0.199
6/12/2017					0.119	0.188
1/29/2018					0.11	0.164
5/10/2018					0.112	0.183
10/9/2018					0.123	0.175
4/22/2019						0.243
4/29/2019					0.104	
8/27/2019					0.115	0.246
3/3/2020					0.11	0.294
3/9/2020	0.164			0.0662		
3/10/2020		0.0306				
10/13/2020		0.0305			0.121	0.347
10/19/2020				0.0635		
10/21/2020	0.156					
10/27/2020			0.161			
4/21/2021	0.218		0.247			
5/3/2021				0.0663		
5/5/2021		0.0298			0.116	0.358
9/7/2021		0.0298			0.12	0.347
9/13/2021	0.188		0.297			
9/15/2021				0.066		
3/8/2022		0.0264				
3/9/2022	0.13					
3/16/2022			0.294		0.0914	0.271
3/17/2022				0.0588		
9/14/2022			0.285			
9/19/2022	0.14	0.0284			0.101	0.261
9/27/2022				0.0586		
4/18/2023		0.0264		0.0583		
4/25/2023			0.373			
5/2/2023	0.163				0.104	0.274

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.105					
7/26/2016			0.249	0.0874		
9/27/2016	0.0988					
9/28/2016			0.223	0.0812		
11/1/2016	0.104			0.0841		
11/2/2016			0.229			
1/9/2017	0.102			0.0842		
1/10/2017			0.227			
2/13/2017	0.136			0.101		
2/14/2017			0.315			
4/3/2017			0.307	0.102		
4/4/2017	0.134					
5/16/2017	0.1			0.0778		
5/17/2017			0.247			
6/12/2017	0.0992		0.237	0.0784		
1/29/2018	0.0852					
2/1/2018			0.221	0.0732		
5/9/2018	0.0926		0.238	0.079		
10/8/2018	0.0877		0.232	0.077		
3/5/2019		0.0578			0.145	
4/23/2019			0.229	0.0822		
4/29/2019	0.0729					
8/27/2019	0.0741	0.0788				
8/28/2019			0.237	0.0853	0.1	
3/2/2020			0.237			
3/3/2020				0.0877	0.104	
3/4/2020	0.0851	0.0341				
10/14/2020	0.0651	0.0601				
10/19/2020					0.0971	
10/20/2020				0.0785		0.12
10/21/2020			0.193			
4/26/2021	0.0758	0.0371				
4/27/2021						0.13
4/28/2021				0.0865	0.109	
5/3/2021			0.228			
9/1/2021	0.0716	0.0507		0.0856		0.13
9/8/2021			0.229		0.121	
3/8/2022						0.105
3/14/2022			0.189			
3/15/2022	0.0575	0.12				
3/16/2022				0.0731	0.097	
9/20/2022			0.195			0.108
9/21/2022				0.0774		
9/26/2022	0.0674	0.155			0.0938	
4/24/2023					0.0866	0.124
4/25/2023			0.243	0.0898		
5/2/2023	0.064	0.0434				

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.228
9/28/2016				0.158
11/2/2016				0.179
1/12/2017				0.166
2/13/2017				0.243
4/3/2017				0.216
5/17/2017				0.177
6/12/2017				0.161
2/1/2018				0.133
5/9/2018				0.139
10/8/2018				0.137
4/23/2019				0.134
8/29/2019				0.164
3/2/2020				0.147
10/15/2020		0.0815	0.0413	
10/20/2020	0.143			
10/21/2020				0.127
4/27/2021	0.156	0.0818	0.045	
5/3/2021				0.177
9/1/2021	0.16	0.0827	0.0464	
9/8/2021				0.17
3/8/2022	0.139	0.0682	0.04	
3/14/2022				0.143
9/20/2022	0.155			0.138
9/21/2022		0.0642	0.0421	
4/24/2023	0.173			
4/25/2023				0.158
5/3/2023		0.071	0.0464	

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.0005	<0.0005	<0.0005
8/2/2016	0.0005					
8/3/2016			0.0005			
9/20/2016	0.0005					
9/21/2016			0.0005			
9/26/2016				<0.0005		
9/27/2016					<0.0005	<0.0005
10/25/2016	0.0005		0.0005			
10/31/2016					<0.0005	
11/1/2016						<0.0005
11/2/2016				<0.0005		
12/13/2016	0.0005		0.0005			
1/11/2017				<0.0005	<0.0005	
1/12/2017						<0.0005
2/6/2017			0.0005			
2/8/2017	0.0005					
2/13/2017				<0.0005		<0.0005
2/14/2017					<0.0005	
3/28/2017			0.0005			
3/29/2017	0.0005					
4/3/2017				<0.0005		
4/4/2017						<0.0005
4/6/2017					<0.0005	
4/24/2017			0.0005			
4/26/2017	0.0005					
5/15/2017				<0.0005		
5/16/2017						<0.0005
5/17/2017					<0.0005	
6/7/2017	<0.0005		<0.0005			
6/13/2017					<0.0005	
6/14/2017				<0.0005		<0.0005
1/31/2018					<0.0005	
2/1/2018				<0.0005		<0.0005
2/19/2018			<0.0005			
2/20/2018	<0.0005					
5/8/2018						<0.0005
5/9/2018				<0.0005		
5/10/2018					<0.0005	
5/15/2018	<0.0005		<0.0005			
10/8/2018					<0.0005	
10/9/2018				<0.0005		<0.0005
10/16/2018			<0.0005			
10/17/2018	<0.0005					
2/20/2019		<0.0005				
4/16/2019	<0.0005		<0.0005			
4/24/2019					<0.0005	
5/1/2019				<0.0005		<0.0005
8/27/2019				<0.0005		
8/28/2019						<0.0005
8/29/2019					<0.0005	
9/24/2019		<0.0005	<0.0005			
3/3/2020						<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.0005	<0.0005	
3/18/2020			<0.0005			
3/25/2020	<0.0005					
9/21/2020			<0.0005			
9/23/2020	<0.0005					
10/19/2020				<0.0005	<0.0005	
10/20/2020						<0.0005
2/2/2021	<0.0005		<0.0005			
4/20/2021				<0.0005		
4/21/2021						<0.0005
5/3/2021					<0.0005	
8/2/2021	<0.0005					
8/10/2021			<0.0005			
9/8/2021				<0.0005		
9/14/2021						<0.0005
9/15/2021					<0.0005	
2/14/2022	<0.0005					
2/16/2022			<0.0005			
3/15/2022				<0.0005		
3/16/2022						<0.0005
3/17/2022					<0.0005	
8/2/2022			<0.0005			
8/9/2022	<0.0005					
9/19/2022				<0.0005		
9/20/2022						<0.0005
9/26/2022					<0.0005	
3/22/2023	<0.0005					
3/27/2023			<0.0005			
5/2/2023				<0.0005		
5/3/2023					<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.0005	<0.0005
7/20/2016	<0.0005					
9/26/2016					<0.0005	<0.0005
9/27/2016	<0.0005					
10/31/2016					<0.0005	<0.0005
11/1/2016	<0.0005					
1/9/2017					<0.0005	<0.0005
1/11/2017	<0.0005					
2/14/2017					<0.0005	<0.0005
2/15/2017	<0.0005					
4/3/2017						<0.0005
4/4/2017	<0.0005				<0.0005	
5/15/2017	<0.0005					
5/16/2017					<0.0005	<0.0005
6/12/2017					<0.0005	<0.0005
6/14/2017	<0.0005					
1/30/2018	<0.0005					
1/31/2018					<0.0005	
2/1/2018						<0.0005
5/7/2018					<0.0005	<0.0005
5/8/2018	<0.0005					
10/8/2018	<0.0005					
10/9/2018					<0.0005	<0.0005
4/24/2019					0.000316 (J)	<0.0005
8/28/2019	<0.0005				<0.0005	<0.0005
3/3/2020						<0.0005
3/4/2020					<0.0005	
3/10/2020	<0.0005					
10/13/2020					<0.0005	<0.0005
10/19/2020	<0.0005					
10/20/2020		<0.0005	<0.0005	<0.0005		
4/21/2021		<0.0005	<0.0005	<0.0005		<0.0005
4/26/2021					<0.0005	
5/5/2021	<0.0005					
9/1/2021					<0.0005	<0.0005
9/7/2021	<0.0005	<0.0005	<0.0005			
9/13/2021				<0.0005		
3/8/2022						<0.0005
3/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	
3/17/2022	<0.0005					
9/19/2022		<0.0005	<0.0005			
9/20/2022					<0.0005	<0.0005
9/26/2022	<0.0005				<0.0005	
4/18/2023		<0.0005	<0.0005			
4/19/2023					<0.0005	<0.0005
5/2/2023				<0.0005		
5/3/2023	<0.0005					

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.0005		
9/28/2016				<0.0005		
11/1/2016				<0.0005		
1/11/2017				<0.0005		
2/14/2017				<0.0005		
4/4/2017				<0.0005		
5/16/2017				<0.0005		
6/14/2017				<0.0005		
2/1/2018				<0.0005		
5/9/2018				<0.0005		
10/9/2018				<0.0005		
3/6/2019	<0.0005	<0.0005			<0.0005	<0.0005
5/1/2019				<0.0005		
8/27/2019	<0.0005	<0.0005		<0.0005		
9/3/2019					<0.0005	<0.0005
3/3/2020				<0.0005		
3/9/2020			<0.0005			
3/10/2020	<0.0005	<0.0005			<0.0005	<0.0005
10/13/2020	<0.0005	<0.0005				
10/14/2020			<0.0005			
10/19/2020					<0.0005	<0.0005
10/21/2020				<0.0005		
4/20/2021			<0.0005			
4/26/2021				<0.0005		
4/28/2021					<0.0005	
5/3/2021						<0.0005
5/5/2021	<0.0005	<0.0005				
9/7/2021	<0.0005					
9/8/2021					<0.0005	<0.0005
9/13/2021			<0.0005			
9/14/2021		<0.0005		<0.0005		
3/8/2022	<0.0005	<0.0005				
3/9/2022			<0.0005		<0.0005	<0.0005
3/16/2022				<0.0005		
9/14/2022	<0.0005		<0.0005			
9/21/2022		<0.0005			<0.0005	<0.0005
9/26/2022				<0.0005		
4/19/2023	<0.0005				<0.0005	<0.0005
5/1/2023			<0.0005			
5/2/2023		<0.0005		<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.0005					
8/28/2019	<0.0005					
3/9/2020	<0.0005			<0.0005		
10/13/2020	<0.0005					
10/14/2020			<0.0005	<0.0005	<0.0005	
10/20/2020		<0.0005				
10/26/2020	<0.0005					
4/20/2021		<0.0005	<0.0005			
4/27/2021	<0.0005					<0.0005
4/28/2021	<0.0005					
5/5/2021				<0.0005		
6/16/2021	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
9/14/2021	<0.0005	<0.0005				
9/15/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/15/2022					<0.0005	
3/16/2022		<0.0005	<0.0005	<0.0005		<0.0005
3/17/2022	<0.0005	<0.0005				
9/14/2022					<0.0005	<0.0005
9/21/2022	<0.0005	<0.0005	<0.0005	<0.0005		
9/26/2022	<0.0005					
5/1/2023				<0.0005	<0.0005	
5/2/2023	<0.0005					
5/3/2023		<0.0005	<0.0005	<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.0005
3/9/2020		<0.0005				
3/10/2020			<0.0005		<0.0005	
10/14/2020						<0.0005
10/15/2020					<0.0005	
10/19/2020		<0.0005				
10/20/2020			<0.0005			
10/26/2020	<0.0005					
10/27/2020				<0.0005		
4/20/2021		<0.0005				
4/21/2021			<0.0005			
4/27/2021				<0.0005		
4/28/2021					<0.0005	
5/3/2021	<0.0005					<0.0005
9/8/2021						<0.0005
9/13/2021		<0.0005	<0.0005	<0.0005		
9/14/2021	<0.0005				<0.0005	
3/9/2022					<0.0005	
3/14/2022	<0.0005	<0.0005				<0.0005
3/16/2022			<0.0005	<0.0005		
9/19/2022			<0.0005			
9/20/2022		<0.0005		<0.0005		<0.0005
9/21/2022	<0.0005				<0.0005	
4/19/2023		<0.0005			<0.0005	
4/24/2023				<0.0005		
4/25/2023	<0.0005					<0.0005
4/26/2023			<0.0005			

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.0005	<0.0005
9/26/2016					<0.0005	<0.0005
10/31/2016					<0.0005	<0.0005
1/9/2017					<0.0005	<0.0005
2/13/2017					<0.0005	<0.0005
4/3/2017					<0.0005	<0.0005
5/16/2017					<0.0005	<0.0005
6/12/2017					<0.0005	<0.0005
1/29/2018					<0.0005	<0.0005
5/10/2018					<0.0005	<0.0005
10/9/2018					<0.0005	<0.0005
4/22/2019						0.000318 (J)
4/29/2019					<0.0005	
8/27/2019					<0.0005	<0.0005
3/3/2020					<0.0005	<0.0005
3/9/2020	<0.0005			<0.0005		
3/10/2020		<0.0005				
10/13/2020		<0.0005			<0.0005	<0.0005
10/19/2020				<0.0005		
10/21/2020	<0.0005					
10/27/2020			<0.0005			
4/21/2021	<0.0005		<0.0005			
5/3/2021				<0.0005		
5/5/2021		<0.0005			<0.0005	<0.0005
9/7/2021		<0.0005			<0.0005	<0.0005
9/13/2021	<0.0005		<0.0005			
9/15/2021				<0.0005		
3/8/2022		<0.0005				
3/9/2022	<0.0005					
3/16/2022			<0.0005		<0.0005	<0.0005
3/17/2022				<0.0005		
9/14/2022			<0.0005			
9/19/2022	<0.0005	<0.0005			<0.0005	<0.0005
9/27/2022				<0.0005		
4/18/2023		<0.0005		<0.0005		
4/25/2023			<0.0005			
5/2/2023	<0.0005				<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.0005					
7/26/2016			<0.0005	<0.0005		
9/27/2016	<0.0005					
9/28/2016			<0.0005	<0.0005		
11/1/2016	<0.0005			<0.0005		
11/2/2016			<0.0005			
1/9/2017	<0.0005			<0.0005		
1/10/2017			<0.0005			
2/13/2017	<0.0005			<0.0005		
2/14/2017			<0.0005			
4/3/2017			<0.0005	<0.0005		
4/4/2017	<0.0005					
5/16/2017	<0.0005			<0.0005		
5/17/2017			<0.0005			
6/12/2017	<0.0005		<0.0005	<0.0005		
1/29/2018	<0.0005					
2/1/2018			<0.0005	<0.0005		
5/9/2018	<0.0005		<0.0005	<0.0005		
10/8/2018	<0.0005		<0.0005	<0.0005		
3/5/2019		<0.0005			<0.0005	
4/23/2019			0.000319 (J)	<0.0005		
4/29/2019	<0.0005					
8/27/2019	<0.0005	<0.0005				
8/28/2019			<0.0005	<0.0005	<0.0005	
3/2/2020			<0.0005			
3/3/2020				<0.0005	<0.0005	
3/4/2020	<0.0005	<0.0005				
10/14/2020	<0.0005	<0.0005				
10/19/2020					<0.0005	
10/20/2020				<0.0005		<0.0005
10/21/2020			<0.0005			
4/26/2021	<0.0005	<0.0005				
4/27/2021						<0.0005
4/28/2021				<0.0005	<0.0005	
5/3/2021			<0.0005			
9/1/2021	<0.0005	<0.0005		<0.0005		<0.0005
9/8/2021			<0.0005		<0.0005	
3/8/2022						<0.0005
3/14/2022			<0.0005			
3/15/2022	<0.0005	<0.0005				
3/16/2022				<0.0005	<0.0005	
9/20/2022			<0.0005			<0.0005
9/21/2022				<0.0005		
9/26/2022	<0.0005	<0.0005			<0.0005	
4/24/2023					<0.0005	<0.0005
4/25/2023			<0.0005	<0.0005		
5/2/2023	<0.0005	<0.0005				

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.0005
9/28/2016				<0.0005
11/2/2016				<0.0005
1/12/2017				<0.0005
2/13/2017				<0.0005
4/3/2017				<0.0005
5/17/2017				<0.0005
6/12/2017				<0.0005
2/1/2018				<0.0005
5/9/2018				<0.0005
10/8/2018				<0.0005
4/23/2019				0.000311 (J)
8/29/2019				<0.0005
3/2/2020				<0.0005
10/15/2020		<0.0005	<0.0005	
10/20/2020	<0.0005			
10/21/2020				<0.0005
4/27/2021	<0.0005	<0.0005	<0.0005	
5/3/2021				<0.0005
9/1/2021	<0.0005	<0.0005	<0.0005	
9/8/2021				<0.0005
3/8/2022	<0.0005	<0.0005	<0.0005	
3/14/2022				<0.0005
9/20/2022	<0.0005			<0.0005
9/21/2022		<0.0005	<0.0005	
4/24/2023	<0.0005			
4/25/2023				<0.0005
5/3/2023		<0.0005	<0.0005	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.0108	0.115	<0.01015
8/2/2016	0.01					
8/3/2016			0.01			
9/20/2016	0.01					
9/21/2016			0.01			
9/26/2016				0.0105		
9/27/2016					0.0985	<0.01015
10/25/2016	0.01		0.01			
10/31/2016					0.0971	
11/1/2016						<0.01015
11/2/2016				0.0107		
12/13/2016	0.01		0.01			
1/11/2017				0.0101	0.0866	
1/12/2017						<0.01015
2/6/2017			0.01			
2/8/2017	0.01					
2/13/2017				0.00994 (J)		<0.01015
2/14/2017					0.0895	
3/28/2017			0.01			
3/29/2017	0.01					
4/3/2017				0.00788 (J)		
4/4/2017						<0.01015
4/6/2017					0.0812	
4/24/2017			0.01			
4/26/2017	0.01					
5/15/2017				0.00866 (J)		
5/16/2017						<0.01015
5/17/2017					0.0741	
6/7/2017	<0.01		<0.01015			
6/13/2017					0.0719	
6/14/2017				0.00779 (J)		<0.01015
1/31/2018					0.0943	
2/1/2018				0.0109		<0.01015
2/19/2018			<0.01015			
2/20/2018	<0.01					
5/8/2018						<0.01015
5/9/2018				0.00618 (J)		
5/10/2018					0.069	
5/15/2018	<0.01		<0.01015			
10/8/2018					0.0951	
10/9/2018				0.00745 (J)		<0.01015
10/16/2018			<0.01015			
10/17/2018	<0.01					
2/20/2019		0.00577 (J)				
4/16/2019	<0.01		<0.01015			
4/24/2019					0.121	
5/1/2019				0.00932 (J)		<0.01015
8/27/2019				0.00563 (J)		
8/28/2019						<0.01015
8/29/2019					0.158	
9/24/2019		0.00906 (J)	<0.01015			
3/3/2020						<0.01015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.0142	0.223	
3/18/2020			<0.01015			
3/25/2020	0.00508 (J)					
9/21/2020			<0.01015			
9/23/2020	0.00664 (J)					
10/19/2020				0.0116	0.305	
10/20/2020						<0.01015
2/2/2021	0.00252		<0.01015			
4/20/2021				0.0072		
4/21/2021						0.000741
5/3/2021					0.296	
8/2/2021	0.00206					
8/10/2021			<0.01015			
9/8/2021				0.00649		
9/14/2021						0.00075
9/15/2021					0.352	
2/14/2022	0.00276					
2/16/2022			0.00012 (J)			
3/15/2022				0.00568		
3/16/2022						0.00039
3/17/2022					0.751	
8/2/2022			<0.01015			
8/9/2022	0.00298					
9/19/2022				0.00547		
9/20/2022						0.00148
9/26/2022					0.74	
3/22/2023	<0.01015					
3/27/2023			<0.01015			
5/2/2023				<0.01015		
5/3/2023					0.665	<0.01015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.01015	0.0204
7/20/2016	0.0267					
9/26/2016					<0.01015	0.00799 (J)
9/27/2016	0.0362					
10/31/2016					<0.01015	0.0458
11/1/2016	0.0329					
1/9/2017					<0.01015	0.00431 (J)
1/11/2017	0.0322					
2/14/2017					<0.01015	0.0255
2/15/2017	0.0374					
4/3/2017						0.0119
4/4/2017	0.036				<0.01015	
5/15/2017	0.0365					
5/16/2017					<0.01015	0.00405 (J)
6/12/2017					<0.01015	0.0216
6/14/2017	0.0368					
1/30/2018	0.113					
1/31/2018					<0.01015	
2/1/2018						0.00829 (J)
5/7/2018					<0.01015	0.0256
5/8/2018	0.119					
10/8/2018	0.31					
10/9/2018					<0.01015	0.0114
4/24/2019					<0.01015	0.0148
8/28/2019	0.646				<0.01015	0.107
3/3/2020						0.025
3/4/2020					<0.01015	
3/10/2020	0.49					
10/13/2020					<0.01015	0.0494
10/19/2020	0.858					
10/20/2020		0.00206 (J)	0.00311 (J)	<0.01015		
4/21/2021		0.00592	0.00029	0.000157 (J)		0.0515
4/26/2021					<0.01015	
5/5/2021	0.662					
9/1/2021					8E-05 (J)	0.0336
9/7/2021	0.821	0.00355	0.00017 (J)			
9/13/2021				9E-05 (J)		
3/8/2022						0.0418
3/9/2022		0.00325	0.00014 (J)	0.00012 (J)	0.00011 (J)	
3/17/2022	1.17					
9/19/2022		0.0034	0.00011 (J)			
9/20/2022					0.000518	0.0863
9/26/2022	0.555			<0.01015		
4/18/2023		<0.01015	<0.01015			
4/19/2023					<0.01015	0.0499
5/2/2023				<0.01015		
5/3/2023	0.383					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.01015		
9/28/2016				<0.01015		
11/1/2016				<0.01015		
1/11/2017				<0.01015		
2/14/2017				<0.01015		
4/4/2017				<0.01015		
5/16/2017				<0.01015		
6/14/2017				<0.01015		
2/1/2018				<0.01015		
5/9/2018				<0.01015		
10/9/2018				<0.01015		
3/6/2019	<0.01015	0.00498 (J)			0.0391	<0.01015
5/1/2019				<0.01015		
8/27/2019	<0.01015	0.0131		<0.01015		
9/3/2019					0.055	<0.01015
3/3/2020				<0.01015		
3/9/2020			<0.01			
3/10/2020	<0.01015	0.00972 (J)			0.0593	<0.01015
10/13/2020	<0.01015	0.00832 (J)				
10/14/2020			<0.01			
10/19/2020					0.0683	<0.01015
10/21/2020				0.00458 (J)		
4/20/2021			0.000945			
4/26/2021				0.0018		
4/28/2021					0.0606	
5/3/2021						0.000249
5/5/2021	0.000351	0.00733				
9/7/2021	<0.01015					
9/8/2021					0.0609	0.00039
9/13/2021			0.00058			
9/14/2021		0.00851		0.0021		
3/8/2022	<0.01015	0.0104				
3/9/2022			0.00363		0.0621	0.00037
3/16/2022				0.00207		
9/14/2022	<0.01015		0.0168			
9/21/2022		0.0107			0.0713	0.000368
9/26/2022				0.00166		
4/19/2023	<0.01015				0.075	<0.01015
5/1/2023			0.0055 (J)			
5/2/2023		0.013		<0.01015		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.00411 (J)					
8/28/2019	0.00208 (J)					
3/9/2020	<0.01015				0.005 (J)	
10/13/2020	<0.01015					
10/14/2020				<0.01015	0.00351 (J)	<0.01
10/20/2020			0.00251 (J)			
10/26/2020		0.00248 (J)				
4/20/2021			0.00172	0.000515		
4/27/2021		0.009				0.00575
4/28/2021	0.00251					
5/5/2021					0.00321	
6/16/2021		0.0127	0.00089	0.00089		0.00481
9/14/2021	0.00116	0.00811				
9/15/2021			0.00102	0.0004	0.00282	0.00349
3/15/2022					0.00221	
3/16/2022			0.00135	0.00032		0.00535
3/17/2022	0.0005	0.00897				
9/14/2022					0.000638	0.00478
9/21/2022		0.0163	0.00098	0.000304		
9/26/2022	0.000416					
5/1/2023					<0.01015	0.00625 (J)
5/2/2023	<0.01015					
5/3/2023		0.0282	<0.01015	<0.01015		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.0139
3/9/2020		<0.01015				
3/10/2020			0.00436 (J)		0.0129	
10/14/2020						0.0223
10/15/2020					0.00939 (J)	
10/19/2020		0.00517 (J)				
10/20/2020			0.00856 (J)			
10/26/2020	<0.01					
10/27/2020				<0.01015		
4/20/2021		0.0017				
4/21/2021			0.00576			
4/27/2021				0.00057		
4/28/2021					0.00777	
5/3/2021	0.00103					0.0166
9/8/2021						0.0184
9/13/2021		0.00156	0.00103	0.00036		
9/14/2021	0.00081				0.00617	
3/9/2022					0.00541	
3/14/2022	0.0007	0.00203				0.0186
3/16/2022			0.00234	0.00032		
9/19/2022			0.00295			
9/20/2022		0.00177		0.00118		0.0318
9/21/2022	0.000966				0.00498	
4/19/2023		<0.01015			<0.01015	
4/24/2023				<0.01015		
4/25/2023	0.00646 (J)					0.0256
4/26/2023			<0.01015			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.0216	0.0307
9/26/2016					0.0226	0.0341
10/31/2016					0.0209	0.028
1/9/2017					0.0219	0.0303
2/13/2017					0.0235	0.0295
4/3/2017					0.0238	0.0261
5/16/2017					0.0232	0.0281
6/12/2017					0.0226	0.0298
1/29/2018					0.0236	0.037
5/10/2018					0.0219	0.0331
10/9/2018					0.0228	0.0377
4/22/2019						0.068
4/29/2019					0.0265	
8/27/2019					0.026	0.0557
3/3/2020					0.024	0.0648
3/9/2020	0.00255 (J)			<0.01015		
3/10/2020		0.00217 (J)				
10/13/2020		<0.01015			0.0265	0.0517
10/19/2020				<0.01015		
10/21/2020	0.00201 (J)					
10/27/2020			0.0195			
4/21/2021	0.00534		0.0505			
5/3/2021				<0.01015		
5/5/2021		0.0017			0.0243	0.0449
9/7/2021		0.00096			0.0254	0.0511
9/13/2021	0.00634		0.0711			
9/15/2021				0.0001 (J)		
3/8/2022		0.00121				
3/9/2022	0.00765					
3/16/2022			0.0981		0.0266	0.0488
3/17/2022				<0.01015		
9/14/2022			0.095			
9/19/2022	0.0052	0.0011			0.0264	0.0506
9/27/2022				<0.01015		
4/18/2023		<0.01015		<0.01015		
4/25/2023			0.0996			
5/2/2023	0.00568 (J)				0.0293	0.0661

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.01015					
7/26/2016			0.0718	0.00707 (J)		
9/27/2016	<0.01015					
9/28/2016			0.0638	0.00623 (J)		
11/1/2016	<0.01015			0.0059 (J)		
11/2/2016			0.0665			
1/9/2017	<0.01015			0.00476 (J)		
1/10/2017			0.067			
2/13/2017	<0.01015			0.00615 (J)		
2/14/2017			0.0735			
4/3/2017			0.0719	0.00623 (J)		
4/4/2017	<0.01015					
5/16/2017	<0.01015			0.00662 (J)		
5/17/2017			0.0733			
6/12/2017	<0.01015		0.0655	0.00613 (J)		
1/29/2018	<0.01015					
2/1/2018			0.076	0.00656 (J)		
5/9/2018	<0.01015		0.061	0.00525 (J)		
10/8/2018	<0.01015		0.0686	0.00565 (J)		
3/5/2019		0.00512 (J)			0.0065 (J)	
4/23/2019			0.0731	0.00479 (J)		
4/29/2019	<0.01015					
8/27/2019	<0.01015	0.00763 (J)				
8/28/2019			0.0709	0.00285 (J)	0.00782 (J)	
3/2/2020			0.0725			
3/3/2020				0.00282 (J)	0.00777 (J)	
3/4/2020	<0.01015	<0.01				
10/14/2020	<0.01015	<0.01				
10/19/2020					0.00562 (J)	
10/20/2020				<0.01015		0.00424 (J)
10/21/2020			0.0877			
4/26/2021	8.18E-05 (J)	0.00109				
4/27/2021						0.00393
4/28/2021				0.00135	0.00578	
5/3/2021			0.0726			
9/1/2021	7E-05 (J)	0.00134		0.00174		0.00458
9/8/2021			0.0733		0.0061	
3/8/2022						0.00515
3/14/2022			0.0753			
3/15/2022	0.00011 (J)	0.00749				
3/16/2022				0.00145	0.00644	
9/20/2022			0.0901			0.00717
9/21/2022				0.00202		
9/26/2022	0.000153 (J)	0.0278			0.00701	
4/24/2023					0.00758 (J)	<0.01015
4/25/2023			0.0934	<0.01015		
5/2/2023	<0.01015	0.00673 (J)				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.0122
9/28/2016				0.00843 (J)
11/2/2016				0.00605 (J)
1/12/2017				0.0049 (J)
2/13/2017				0.00784 (J)
4/3/2017				0.00474 (J)
5/17/2017				0.00447 (J)
6/12/2017				0.003 (J)
2/1/2018				<0.01015
5/9/2018				<0.01015
10/8/2018				<0.01015
4/23/2019				<0.01015
8/29/2019				<0.01015
3/2/2020				<0.01015
10/15/2020		<0.01015	0.00213 (J)	
10/20/2020	0.0356			
10/21/2020				<0.01015
4/27/2021	0.0324	0.00031	0.0015	
5/3/2021				0.000438
9/1/2021	0.0351	0.00035	0.00047	
9/8/2021				0.00029
3/8/2022	0.0333	0.00121	0.00027	
3/14/2022				0.00033
9/20/2022	0.0328			0.000184 (J)
9/21/2022		0.000304	0.000302	
4/24/2023	0.0282			
4/25/2023				<0.01015
5/3/2023		<0.01015	<0.01015	

Time Series

Constituent: pH, Field (pH) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				7.52	6.73	6.74
8/2/2016	6.8					
8/3/2016			5.84			
9/20/2016	6.8					
9/21/2016			5.99			
9/26/2016				8.96		
9/27/2016					6.82	6.74
10/25/2016	6.85		5.94			
10/31/2016					6.78	
11/1/2016						6.71
11/2/2016				8.51		
12/13/2016	6.8		5.84			
1/11/2017				8.5	6.8	
1/12/2017						6.61
2/6/2017			5.9			
2/8/2017	6.76					
2/13/2017				8.63		6.58
2/14/2017					6.74	
3/28/2017			5.67			
3/29/2017	6.76					
3/30/2017				8.67		6.57
4/3/2017				7.63		
4/4/2017						6.56
4/6/2017					6.73	
4/24/2017			5.79			
4/26/2017	6.71					
5/15/2017				8.67		
5/16/2017						6.56
5/17/2017					6.73	
6/7/2017	6.71		5.71			
6/13/2017					6.71	
6/14/2017				8.39		6.5
8/21/2017			5.7			
8/22/2017	6.84					
9/19/2017				8.78		6.55
9/21/2017					6.8	
1/29/2018				8.84		
1/30/2018						7.09
1/31/2018					6.81	
2/19/2018			5.78			
2/20/2018	6.77					
3/27/2018				8.48 (D)		6.665 (D)
3/28/2018					6.895 (D)	
5/8/2018						7.04
5/9/2018				8.49		
5/10/2018					6.77	
5/15/2018	6.8		5.84			
10/8/2018					6.86	
10/9/2018				9.04		7.3
10/16/2018			5.75 (D)			
10/17/2018	6.67 (D)					
2/20/2019		7.76				

Time Series

Constituent: pH, Field (pH) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
4/16/2019	6.64		5.76			
4/24/2019					6.91	
5/1/2019				11.01		6.64
8/27/2019				7.48		
8/28/2019						7.22
8/29/2019					6.93	
9/24/2019	7.65		5.27			
3/3/2020						6.6
3/9/2020				11.95	7.03	
3/18/2020			5.81			
3/25/2020	7.63					
9/21/2020			5.75			
9/23/2020	7.53					
10/19/2020				11.44	7.05	
10/20/2020						7.26
2/2/2021	7.58		5.69			
4/20/2021				9.55		
4/21/2021						6.54
5/3/2021					7.01	
8/2/2021	7.65					
8/10/2021			5.02			
9/8/2021				9.19		
9/14/2021						6.67
9/15/2021					7.04	
2/14/2022	7.43					
2/16/2022			5.8			
3/15/2022				8.71		
3/16/2022						6.94
3/17/2022					7.24	
8/2/2022			5.78			
8/9/2022	7.55					
9/19/2022				8.09		
9/20/2022						6.7
9/26/2022					7.16	
3/22/2023	7.61					
3/27/2023			5.82			
5/2/2023				8.6		
5/3/2023					7.15	6.52

Time Series

Constituent: pH, Field (pH) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					6.55	6.07
7/20/2016	6.63					
9/26/2016					6.55	5.91
9/27/2016	6.59					
10/31/2016					6.49	6.19
11/1/2016	6.6					
1/9/2017					6.46	6.03
1/11/2017	6.59					
2/14/2017					6.47	6.13
2/15/2017	6.59					
4/3/2017						5.97
4/4/2017	6.54				6.38	
5/15/2017	6.56					
5/16/2017					6.46	5.97
6/12/2017					6.41	6.1
6/14/2017	6.55					
9/19/2017					6.5	6.03
9/21/2017	6.53					
1/30/2018	6.59					5.95
1/31/2018					6.5	
3/28/2018	6.645 (D)				6.49 (D)	6.14 (D)
5/7/2018					6.42	6.01
5/8/2018	6.49					
10/8/2018	6.51					
10/9/2018					6.46	6
4/24/2019					6.46	6.01
8/28/2019	6.63				6.38	6.34
3/3/2020						6.19
3/4/2020					6.43	
3/10/2020	6.52					
10/13/2020					6.42	6.31
10/19/2020	6.5					
10/20/2020		6.81	6.28	6.46		
4/21/2021		6.87	6.19	6.49		6.39
4/26/2021					6.36	
5/5/2021	6.5					
9/1/2021					6.16	6.31
9/7/2021	6.46	6.77	5.98			
9/13/2021				6.3		
3/8/2022						6.15
3/9/2022		6.97	6.05	6.53	6.37	
3/17/2022	6.65					
9/19/2022		7.07	5.65			
9/20/2022					6.32	6.66
9/26/2022	6.71			6.49		
4/18/2023		7.07	5.16			
4/19/2023					6.33	6.35
5/2/2023				6.4		
5/3/2023	6.74					

Time Series

Constituent: pH, Field (pH) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				6.03		
9/28/2016				5.96		
11/1/2016				6.02		
1/11/2017				6.11		
2/14/2017				6.16		
4/4/2017				6.1		
5/16/2017				6.12		
6/14/2017				6.11		
9/20/2017				6.16		
1/30/2018				6.17		
3/27/2018				6.19 (D)		
5/9/2018				5.92		
10/9/2018				6.21		
3/6/2019	6.98	7.39			7.14	6.32
5/1/2019				6.25		
8/27/2019	6.98	7.28		6.25		
9/3/2019					7.49	6.34
3/3/2020				6.27		
3/9/2020			8.05			
3/10/2020	7.04	7.28			7.35	6.47
10/13/2020	7	7.23				
10/14/2020			8.25			
10/19/2020					7.33	6.51
10/21/2020				6.29		
4/20/2021			7.97			
4/26/2021				6.33		
4/28/2021					7.29	
5/3/2021						6.29
5/5/2021	6.99	7.31				
9/7/2021	6.82					
9/8/2021					7.37	6.33
9/13/2021			8.63			
9/14/2021		7.39		6.58		
3/8/2022	7.07	7.5				
3/9/2022			8.07		7.38	6.71
3/16/2022				6.14		
9/14/2022	6.55		7.79			
9/21/2022		7.21			7.26	6.33
9/26/2022				6.37		
4/19/2023	6.98				7.3	6.62
5/1/2023			8.02			
5/2/2023		7.52		6.12		

Time Series

Constituent: pH, Field (pH) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	7.26					
8/28/2019	7.42					
3/9/2020	7.7			7.6		
10/13/2020	7.68					
10/14/2020				6.84	7.66	7.46
10/20/2020			7.68			
10/26/2020		7.78				
4/20/2021			7.81	6.36		
4/27/2021		7.88				7.45
4/28/2021	7.73					
5/5/2021					7.7	
6/16/2021		7.87	7.7	6.69		7.29
9/14/2021	7.83	8.29				
9/15/2021			8.06	6.88	7.78	7.53
3/15/2022					7.61	
3/16/2022			7.94	6.92		7.48
3/17/2022	7.72	7.96				
9/14/2022					7.59	7.43
9/21/2022		7.82	8.09	6.78		
9/26/2022	7.36					
5/1/2023					7.59	7.4
5/2/2023	7.65					
5/3/2023		8.76	8.35	6.83		

Time Series

Constituent: pH, Field (pH) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						6.51
3/9/2020		6.8				
3/10/2020			6.91		7.27	
10/14/2020						6.45
10/15/2020					7.32	
10/19/2020		6.79				
10/20/2020			6.84			
10/26/2020	7.2					
10/27/2020				6.95		
4/20/2021		6.64				
4/21/2021			6.83			
4/27/2021				7.01		
4/28/2021					7.18	
5/3/2021	7.16					6.48
9/8/2021						6.37
9/13/2021		6.62	6.79	7.04		
9/14/2021	7.21				7.36	
3/9/2022					7.35	
3/14/2022	7.17	6.82				6.5
3/16/2022			6.72	6.94		
9/19/2022			6.78			
9/20/2022		6.72		7		6.29
9/21/2022	7.15				7.2	
4/19/2023		6.81			7.28	
4/24/2023				6.98		
4/25/2023	7.13					6.56
4/26/2023			6.77			

Time Series

Constituent: pH, Field (pH) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					6.72	8.95
9/26/2016					6.76	9.13
10/31/2016					6.72	9.04
1/9/2017					6.73	9.62
2/13/2017					6.73	9.43
3/29/2017					6.68	9.04
4/3/2017					6.73	9.18
5/16/2017					6.71	9.11
6/12/2017					6.79	9.54
9/20/2017					6.8	9.69
1/29/2018					6.82	9.76
3/27/2018					6.91 (D)	9.475 (D)
5/10/2018					6.79	9.44
10/9/2018					6.8	9.34
4/22/2019						9.17
4/29/2019					6.81	
8/27/2019					6.84	9.23
3/3/2020					6.85	9.4
3/9/2020	7.76			7.33		
3/10/2020		6.69				
10/13/2020		6.64			6.9	9.04
10/19/2020				7.32		
10/21/2020	7.79					
10/27/2020			7.54			
4/21/2021	7.81		7.72			
5/3/2021				7.41		
5/5/2021		6.72			6.9	9.1
9/7/2021		6.58			6.86	8.84
9/13/2021	8.2		7.8			
9/15/2021				7.22		
3/8/2022		6.77				
3/9/2022	8.09					
3/16/2022			7.51		7.04	9.05
3/17/2022				7.12		
9/14/2022			7.48			
9/19/2022	8.05	6.23			6.77	8.73
9/27/2022				7.39		
4/18/2023		6.57		7.33		
4/25/2023			7.22			
5/2/2023	7.87				6.82	9.28

Time Series

Constituent: pH, Field (pH) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	5.82					
7/26/2016			7.01	5.98		
9/27/2016	5.85					
9/28/2016			7.06	6		
11/1/2016	5.79			6		
11/2/2016			7.02			
1/9/2017	5.83			6.04		
1/10/2017			7.17			
2/13/2017	5.78			6.04		
2/14/2017			7.01			
3/29/2017				6.01		
3/30/2017	5.73					
4/3/2017			7.09	6.02		
4/4/2017	5.7					
5/16/2017	5.72			5.92		
5/17/2017			7			
6/12/2017	5.83		7.08	5.99		
9/18/2017			7.09	6.04		
9/20/2017	5.86					
1/29/2018	5.86					
1/31/2018			7.13	6.05		
3/27/2018	6 (D)		7.175 (D)	6.23 (D)		
5/9/2018	5.85		7.03	6.01		
10/8/2018	5.86		7.26	6.1		
3/5/2019		6.5			7.24	
4/23/2019			7.03	6.06		
4/29/2019	5.91					
8/27/2019	6.04	6.38				
8/28/2019			7.08	5.98	7.34	
3/2/2020			7.18			
3/3/2020				6.11	7.14	
3/4/2020	5.96	6.34				
10/14/2020	5.93	6.38				
10/19/2020					7.28	
10/20/2020				6.15		6.78
10/21/2020			7.07			
4/26/2021	5.75	6.34				
4/27/2021						6.8
4/28/2021				6.1	7.15	
5/3/2021			6.96			
9/1/2021	5.76	5.85		6.28		6.77
9/8/2021			7.08		6.98	
3/8/2022						6.81
3/14/2022			6.92			
3/15/2022	6.27	6.68				
3/16/2022				6.07	7.17	
9/20/2022			7.03			6.69
9/21/2022				6.08		
9/26/2022	6.05	6.75			7.76	
4/24/2023					7.98	6.7
4/25/2023			7.37	6.06		
5/2/2023	6.07	6.59				

Time Series

Constituent: pH, Field (pH) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				7.88
9/28/2016				7.8
11/2/2016				7.86
1/12/2017				7.9
2/13/2017				7.86
3/30/2017				8.06
4/3/2017				8
5/17/2017				7.99
6/12/2017				7.91
9/18/2017				8.04
1/31/2018				8.23
3/27/2018				8.33 (D)
5/9/2018				8.6
10/8/2018				8.31
4/23/2019				8.18
8/29/2019				8.26
3/2/2020				8.34
10/15/2020		6.67	6.42	
10/20/2020	6.54			
10/21/2020				8.16
4/27/2021	6.56	6.68	6.36	
5/3/2021				8.32
9/1/2021	6.57	6.66	6.33	
9/8/2021				8.34
3/8/2022	6.61	6.75	6.28	
3/14/2022				8.47
9/20/2022	6.5			8.07
9/21/2022		6.71	6.49	
4/24/2023	6.54			
4/25/2023				8.46
5/3/2023		6.46	6.34	

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.001015	<0.001015	<0.001015
8/2/2016	0.01					
8/3/2016			0.01			
9/20/2016	0.01					
9/21/2016			0.01			
9/26/2016				<0.001015		
9/27/2016					<0.001015	<0.001015
10/25/2016	0.01		0.01			
10/31/2016					<0.001015	
11/1/2016						<0.001015
11/2/2016				<0.001015		
12/13/2016	0.01		0.01			
1/11/2017				<0.001015	<0.001015	
1/12/2017						<0.001015
2/6/2017			0.01			
2/8/2017	0.01					
2/13/2017				<0.001015		<0.001015
2/14/2017					<0.001015	
3/28/2017			0.01			
3/29/2017	0.01					
4/3/2017				<0.001015		
4/4/2017						<0.001015
4/6/2017					<0.001015	
4/24/2017			0.01			
4/26/2017	0.01					
5/15/2017				<0.001015		
5/16/2017						<0.001015
5/17/2017					<0.001015	
6/7/2017	<0.01		<0.001015			
6/13/2017					<0.001015	
6/14/2017				<0.001015		<0.001015
1/31/2018					<0.001015	
2/1/2018				<0.001015		<0.001015
2/19/2018			<0.001015			
2/20/2018	<0.01					
5/8/2018						<0.001015
5/9/2018				<0.001015		
5/10/2018					<0.001015	
5/15/2018	<0.01		<0.001015			
10/8/2018					<0.001015	
10/9/2018				<0.001015		<0.001015
10/16/2018			<0.001015			
10/17/2018	<0.01					
2/20/2019		<0.001015				
4/16/2019	<0.01		<0.001015			
4/24/2019					<0.001015	
5/1/2019				<0.001015		<0.001015
8/27/2019				<0.001015		
8/28/2019						<0.001015
8/29/2019					<0.001015	
9/24/2019		<0.001015	<0.001015			
3/3/2020						<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.001015	<0.001015	
3/18/2020			<0.001015			
3/25/2020	<0.001015					
9/21/2020			<0.001015			
9/23/2020	<0.001015					
10/19/2020				<0.001015	<0.001015	
10/20/2020						<0.001015
2/2/2021	<0.001015		<0.001015			
4/20/2021				<0.001015		
4/21/2021						<0.001015
5/3/2021					<0.001015	
8/2/2021	<0.001015					
8/10/2021			<0.001015			
9/8/2021				<0.001015		
9/14/2021						<0.001015
9/15/2021					<0.001015	
2/14/2022	<0.001015					
2/16/2022			<0.001015			
3/15/2022				<0.001015		
3/16/2022						<0.001015
3/17/2022					<0.001015	
8/2/2022			<0.001015			
8/9/2022	<0.001015					
9/19/2022				<0.001015		
9/20/2022						<0.001015
9/26/2022					<0.001015	
3/22/2023	<0.001015					
3/27/2023			<0.001015			
5/2/2023				<0.001015		
5/3/2023					<0.001015	<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.001015	<0.00102
7/20/2016	<0.001015					
9/26/2016					<0.001015	0.00341 (J)
9/27/2016	<0.001015					
10/31/2016					<0.001015	<0.00102
11/1/2016	<0.001015					
1/9/2017					<0.001015	0.00273 (J)
1/11/2017	<0.001015					
2/14/2017					<0.001015	0.00281 (J)
2/15/2017	<0.001015					
4/3/2017						0.00262 (J)
4/4/2017	<0.001015				<0.001015	
5/15/2017	<0.001015					
5/16/2017					<0.001015	<0.00102
6/12/2017					<0.001015	<0.00102
6/14/2017	<0.001015					
1/30/2018	<0.001015					
1/31/2018					<0.001015	
2/1/2018						<0.00102
5/7/2018					<0.001015	0.00204 (J)
5/8/2018	<0.001015					
10/8/2018	<0.001015					
10/9/2018					<0.001015	<0.00102
4/24/2019					<0.001015	<0.00102
8/28/2019	<0.001015				<0.001015	<0.00102
3/3/2020						0.00271 (J)
3/4/2020					<0.001015	
3/10/2020	<0.001015					
10/13/2020					<0.001015	0.00351 (J)
10/19/2020	<0.001015					
10/20/2020		<0.001015	<0.001015	<0.001015		
4/21/2021		<0.001015	<0.001015	<0.001015		0.000975 (J)
4/26/2021					<0.001015	
5/5/2021	<0.001015					
9/1/2021					<0.001015	0.00629
9/7/2021	<0.001015	<0.001015	<0.001015			
9/13/2021				<0.001015		
3/8/2022						0.00171
3/9/2022		<0.001015	<0.001015	<0.001015	<0.001015	
3/17/2022	<0.001015					
9/19/2022		<0.001015	0.000598 (J)			
9/20/2022					<0.001015	<0.00102
9/26/2022	<0.001015				<0.001015	
4/18/2023		<0.001015	<0.001015			
4/19/2023					<0.001015	0.00616
5/2/2023				<0.001015		
5/3/2023	<0.001015					

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.001015		
9/28/2016				<0.001015		
11/1/2016				<0.001015		
1/11/2017				<0.001015		
2/14/2017				<0.001015		
4/4/2017				<0.001015		
5/16/2017				<0.001015		
6/14/2017				<0.001015		
2/1/2018				<0.001015		
5/9/2018				<0.001015		
10/9/2018				<0.001015		
3/6/2019	<0.001015	<0.001015			<0.001015	<0.001015
5/1/2019				<0.001015		
8/27/2019	<0.001015	<0.001015		<0.001015		
9/3/2019					<0.001015	<0.001015
3/3/2020				<0.001015		
3/9/2020			0.00512 (J)			
3/10/2020	<0.001015	<0.001015			<0.001015	<0.001015
10/13/2020	<0.001015	<0.001015				
10/14/2020			<0.001015			
10/19/2020					<0.001015	<0.001015
10/21/2020				<0.001015		
4/20/2021			<0.001015			
4/26/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021						<0.001015
5/5/2021	<0.001015	<0.001015				
9/7/2021	<0.001015					
9/8/2021					<0.001015	<0.001015
9/13/2021			<0.001015			
9/14/2021		<0.001015		<0.001015		
3/8/2022	<0.001015	<0.001015				
3/9/2022			<0.001015		<0.001015	<0.001015
3/16/2022				<0.001015		
9/14/2022	<0.001015		<0.001015			
9/21/2022		<0.001015			<0.001015	<0.001015
9/26/2022				<0.001015		
4/19/2023	<0.001015				<0.001015	<0.001015
5/1/2023			<0.001015			
5/2/2023		<0.001015		<0.001015		

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.001015					
8/28/2019	<0.001015					
3/9/2020	<0.001015				<0.001015	
10/13/2020	<0.001015					
10/14/2020				<0.001015	<0.001015	<0.001015
10/20/2020			<0.001015			
10/26/2020	<0.001015					
4/20/2021			<0.001015	<0.001015		
4/27/2021	<0.001015					<0.001015
4/28/2021	<0.001015					
5/5/2021					<0.001015	
6/16/2021	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
9/14/2021	<0.001015	<0.001015				
9/15/2021			<0.001015	<0.001015	<0.001015	<0.001015
3/15/2022					<0.001015	
3/16/2022			<0.001015	<0.001015		<0.001015
3/17/2022	<0.001015	<0.001015				
9/14/2022					<0.001015	<0.001015
9/21/2022		<0.001015	<0.001015	<0.001015		
9/26/2022	<0.001015					
5/1/2023					<0.001015	<0.001015
5/2/2023	<0.001015					
5/3/2023		<0.001015	<0.001015	<0.001015		

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.001015
3/9/2020		<0.001015				
3/10/2020			0.00228 (J)		<0.001015	
10/14/2020						<0.001015
10/15/2020					<0.001015	
10/19/2020		<0.001015				
10/20/2020			<0.001015			
10/26/2020	<0.001015					
10/27/2020				<0.001015		
4/20/2021		<0.001015				
4/21/2021			<0.001015			
4/27/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021	<0.001015					<0.001015
9/8/2021						<0.001015
9/13/2021		<0.001015	<0.001015	<0.001015		
9/14/2021	<0.001015				<0.001015	
3/9/2022					<0.001015	
3/14/2022	<0.001015	<0.001015				<0.001015
3/16/2022			<0.001015	<0.001015		
9/19/2022			<0.001015			
9/20/2022		<0.001015		<0.001015		<0.001015
9/21/2022	<0.001015				<0.001015	
4/19/2023		<0.001015			<0.001015	
4/24/2023				<0.001015		
4/25/2023	<0.001015					<0.001015
4/26/2023			<0.001015			

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.001015	<0.001015
9/26/2016					<0.001015	<0.001015
10/31/2016					<0.001015	<0.001015
1/9/2017					<0.001015	<0.001015
2/13/2017					<0.001015	<0.001015
4/3/2017					<0.001015	<0.001015
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
1/29/2018					<0.001015	<0.001015
5/10/2018					<0.001015	<0.001015
10/9/2018					<0.001015	<0.001015
4/22/2019						<0.001015
4/29/2019					<0.001015	
8/27/2019					<0.001015	<0.001015
3/3/2020					<0.001015	<0.001015
3/9/2020	0.0461			<0.001015		
3/10/2020		<0.001015				
10/13/2020		<0.001015			<0.001015	<0.001015
10/19/2020				<0.001015		
10/21/2020	<0.001015					
10/27/2020			<0.001015			
4/21/2021	<0.001015		<0.001015			
5/3/2021				<0.001015		
5/5/2021		<0.001015			<0.001015	<0.001015
9/7/2021		<0.001015			<0.001015	<0.001015
9/13/2021	<0.001015		<0.001015			
9/15/2021				<0.001015		
3/8/2022		<0.001015				
3/9/2022	<0.001015					
3/16/2022			<0.001015		<0.001015	<0.001015
3/17/2022				<0.001015		
9/14/2022			<0.001015			
9/19/2022	<0.001015	<0.001015			<0.001015	<0.001015
9/27/2022				<0.001015		
4/18/2023		<0.001015		<0.001015		
4/25/2023			<0.001015			
5/2/2023	<0.001015				<0.001015	<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.00102					
7/26/2016			<0.001015	<0.001015		
9/27/2016	0.0023 (J)					
9/28/2016			<0.001015	<0.001015		
11/1/2016	<0.00102			<0.001015		
11/2/2016			<0.001015			
1/9/2017	0.00278 (J)			<0.001015		
1/10/2017			<0.001015			
2/13/2017	0.00291 (J)			<0.001015		
2/14/2017			<0.001015			
4/3/2017			<0.001015	<0.001015		
4/4/2017	0.00343 (J)					
5/16/2017	0.003 (J)			<0.001015		
5/17/2017			<0.001015			
6/12/2017	0.00255 (J)		<0.001015	<0.001015		
1/29/2018	0.00273 (J)					
2/1/2018			<0.001015	<0.001015		
5/9/2018	<0.00102		<0.001015	<0.001015		
10/8/2018	<0.00102		<0.001015	<0.001015		
3/5/2019		<0.00102			<0.001015	
4/23/2019			<0.001015	<0.001015		
4/29/2019	<0.00102					
8/27/2019	<0.00102	<0.00102				
8/28/2019			<0.001015	<0.001015	<0.001015	
3/2/2020			<0.001015			
3/3/2020				<0.001015	<0.001015	
3/4/2020	<0.00102	<0.00102				
10/14/2020	<0.00102	<0.00102				
10/19/2020					<0.001015	
10/20/2020				<0.001015		<0.001015
10/21/2020			<0.001015			
4/26/2021	0.00112	<0.00102				
4/27/2021						<0.001015
4/28/2021				<0.001015	<0.001015	
5/3/2021			<0.001015			
9/1/2021	0.00077 (J)	<0.00102		<0.001015		<0.001015
9/8/2021			<0.001015		<0.001015	
3/8/2022						<0.001015
3/14/2022			<0.001015			
3/15/2022	<0.00102	<0.00102				
3/16/2022				<0.001015	<0.001015	
9/20/2022			<0.001015			<0.001015
9/21/2022				<0.001015		
9/26/2022	<0.00102	<0.00102			<0.001015	
4/24/2023					<0.001015	<0.001015
4/25/2023			<0.001015	<0.001015		
5/2/2023	0.000539 (J)	0.000535 (J)				

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.001015
9/28/2016				<0.001015
11/2/2016				<0.001015
1/12/2017				<0.001015
2/13/2017				<0.001015
4/3/2017				<0.001015
5/17/2017				<0.001015
6/12/2017				<0.001015
2/1/2018				<0.001015
5/9/2018				<0.001015
10/8/2018				<0.001015
4/23/2019				<0.001015
8/29/2019				<0.001015
3/2/2020				<0.001015
10/15/2020		<0.001015	<0.001015	
10/20/2020	<0.001015			
10/21/2020				<0.001015
4/27/2021	<0.001015	<0.001015	<0.001015	
5/3/2021				<0.001015
9/1/2021	<0.001015	<0.001015	<0.001015	
9/8/2021				<0.001015
3/8/2022	<0.001015	<0.001015	<0.001015	
3/14/2022				<0.001015
9/20/2022	<0.001015			<0.001015
9/21/2022		<0.001015	<0.001015	
4/24/2023	<0.001015			
4/25/2023				<0.001015
5/3/2023		<0.001015	<0.001015	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				585	787	637
8/2/2016	12					
8/3/2016			4.2			
9/20/2016	11.2					
9/21/2016			4.27			
9/26/2016				480		
9/27/2016					714	612
10/25/2016	10.1		2.78			
10/31/2016					741	
11/1/2016						619
11/2/2016				462		
12/13/2016	11.4		3.18			
1/11/2017				515	731	
1/12/2017						654
2/6/2017			3.74			
2/8/2017	10.9					
2/14/2017					670	
3/28/2017			3.4 (JD)			
3/29/2017	11 (D)					
3/30/2017				470		650
4/3/2017				560		
4/4/2017						690
4/6/2017					640	
4/24/2017			2.7 (JD)			
4/26/2017	11 (D)					
5/15/2017				410		
5/16/2017						590
5/17/2017					620	
6/7/2017	11		2.7 (J)			
6/13/2017					950	
6/14/2017				450		620
8/21/2017			3.9 (J)			
8/22/2017	11					
9/19/2017				430		630
9/21/2017					660	
3/27/2018				430		620
3/28/2018					730	
5/8/2018						550
5/9/2018				460		
5/10/2018					680	
5/15/2018	11		2.5 (J)			
10/8/2018					750	
10/9/2018				420		450
10/16/2018			2.4 (J)			
10/17/2018	12					
2/20/2019		15.2				
4/16/2019	12.1		4.53			
4/24/2019					950	
5/1/2019				309		549
8/27/2019				639		
8/28/2019						605
8/29/2019					847	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
9/24/2019	11.8		6.61			
3/3/2020						618
3/9/2020				341	1010	
3/18/2020			4.86			
3/25/2020	9.69					
9/21/2020			4.69			
9/23/2020	11.1					
10/19/2020				233	781	
10/20/2020						575
2/2/2021	8.81		4.83			
4/20/2021				305		
4/21/2021						559
5/3/2021					917	
8/2/2021	10.2					
8/10/2021			3.77			
9/8/2021				472		
9/14/2021						588
9/15/2021					910	
2/14/2022	9.09					
2/16/2022			4.68			
3/15/2022				512		
3/16/2022						707
3/17/2022					735	
8/2/2022			4.18			
8/9/2022	8.13					
9/19/2022				548		
9/20/2022						678
9/26/2022					1560	
3/22/2023	10.6					
3/27/2023			4.41			
5/2/2023				445		
5/3/2023					1250	716

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					69.3	683
7/20/2016	895					
9/26/2016					74.7	707
9/27/2016	841					
10/31/2016					80.6	610
11/1/2016	829					
1/9/2017					77.9	707
1/11/2017	855					
2/14/2017					68	670
2/15/2017	860					
4/3/2017						520
4/4/2017	1100				71	
5/15/2017	900					
5/16/2017					62	470
6/12/2017					77	510
6/14/2017	1100					
9/19/2017					72	460
9/21/2017	1100					
3/28/2018	1300				73	450
5/7/2018					77	430
5/8/2018	1400					
10/8/2018	1500					
10/9/2018					76	580
4/24/2019					91.9	385
8/28/2019	1780				227	384
3/3/2020						198
3/4/2020					93.9	
3/10/2020	1580					
10/13/2020					107	366
10/19/2020	1630					
10/20/2020		65.8	285	39.3		
4/21/2021		151	610	43.1		392
4/26/2021					157	
5/5/2021	1510					
9/1/2021					163	427
9/7/2021	1850	167	871			
9/13/2021				48.8		
3/8/2022						530
3/9/2022		210	902	48.7	123	
3/17/2022	1730					
9/19/2022		179	714			
9/20/2022					352	503
9/26/2022	845			48.700001		
4/18/2023		178	718			
4/19/2023					281	553
5/2/2023				49.400002		
5/3/2023	513					

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				1340		
9/28/2016				1680		
11/1/2016				1430		
1/11/2017				1550		
2/14/2017				1500		
4/4/2017				1700		
5/16/2017				1500		
6/14/2017				1700		
9/20/2017				1400		
3/27/2018				1500		
5/9/2018				1300		
10/9/2018				1500		
3/6/2019	60.4	158			904	619
5/1/2019				1580		
8/27/2019	83.6	427		1570		
9/3/2019					820	529
3/3/2020				1690		
3/9/2020			35			
3/10/2020	51.9	98.1			793	550
10/13/2020	81.6	362				
10/14/2020			83.1			
10/19/2020					634	475
10/21/2020				1360		
4/20/2021			167			
4/26/2021				1580		
4/28/2021					645	
5/3/2021						438
5/5/2021	93.2	270				
9/7/2021	65.8					
9/8/2021					718	463
9/13/2021			58.8			
9/14/2021		291		1690		
3/8/2022	62.1	125				
3/9/2022			110		785	398
3/16/2022				1630		
9/14/2022	78.300003		225			
9/21/2022		242			685	297
9/26/2022				1570		
4/19/2023	56.099998				709	242
5/1/2023			142			
5/2/2023		111		1570		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	116					
8/28/2019	108					
3/9/2020	111			0.908 (J)		
10/13/2020	135					
10/14/2020			184	1.1	5.51	
10/20/2020		36.4				
10/26/2020	7.91					
4/20/2021		31.4	145			
4/27/2021	56.7				27.9	
4/28/2021	136					
5/5/2021				1.38		
6/16/2021	56.8	17.1	147		26.1	
9/14/2021	139	30.9				
9/15/2021		18.4	146	7.45	26.5	
3/15/2022				0.862 (J)		
3/16/2022		24.8	174		33.5	
3/17/2022	137	66.2				
9/14/2022				<2	47	
9/21/2022	128	23	169			
9/26/2022	134					
5/1/2023				3.55	52.299999	
5/2/2023	141					
5/3/2023	277	21	178			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						679
3/9/2020		105				
3/10/2020			820		16.3	
10/14/2020						700
10/15/2020					7.29	
10/19/2020		173				
10/20/2020			850			
10/26/2020	61.6					
10/27/2020				410		
4/20/2021		96.2				
4/21/2021			796			
4/27/2021				404		
4/28/2021					21.8	
5/3/2021	69.2					710
9/8/2021						818
9/13/2021		133	764	416		
9/14/2021	66.2				16.2	
3/9/2022					18.2	
3/14/2022	65.4	105				730
3/16/2022			761	414		
9/19/2022			721			
9/20/2022		78.300003		403		752
9/21/2022	62.900002				16.5	
4/19/2023		80.400002			21.200001	
4/24/2023				396		
4/25/2023	114					732
4/26/2023			710			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					900	237
9/26/2016					814	105
10/31/2016					800	94.9
1/9/2017					833	131
3/29/2017					760	160
4/3/2017					860	180
5/16/2017					630	160
6/12/2017					710	160
9/20/2017					590	140
3/27/2018					540	140
5/10/2018					540	120
10/9/2018					700	130
4/22/2019						249
4/29/2019					484	
8/27/2019					529	248
3/3/2020					488	298
3/9/2020	220			31.5		
3/10/2020		182				
10/13/2020		196			473	236
10/19/2020				32.4		
10/21/2020	279					
10/27/2020			285			
4/21/2021	372		559			
5/3/2021				34.8		
5/5/2021		184			501	224
9/7/2021		211			513	243
9/13/2021	257		628			
9/15/2021				36.4		
3/8/2022		199				
3/9/2022	185					
3/16/2022			746		352	227
3/17/2022				36		
9/14/2022			572			
9/19/2022	158	205			352	159
9/27/2022				33.799999		
4/18/2023		197		35.400002		
4/25/2023			519			
5/2/2023	137				264	161

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	981					
7/26/2016			1040	532		
9/27/2016	958					
9/28/2016			1020	540		
11/1/2016	933			521		
11/2/2016			1000			
1/9/2017	896			543		
1/10/2017			995			
2/14/2017			950			
3/29/2017				540		
3/30/2017	930					
4/3/2017			1100	550		
4/4/2017	870					
5/16/2017	780			490		
5/17/2017			930			
6/12/2017	790		940	560		
9/18/2017			830	510		
9/20/2017	710					
3/27/2018	620		780	510		
5/9/2018	600		790	500		
10/8/2018	650		820	490		
3/5/2019		553			526	
4/23/2019			884	638		
4/29/2019	758					
8/27/2019	670	706				
8/28/2019			818	609	228	
3/2/2020			859			
3/3/2020				600	309	
3/4/2020	604	498				
10/14/2020	527	554				
10/19/2020					238	
10/20/2020				513		384
10/21/2020			669			
4/26/2021	554	512				
4/27/2021						390
4/28/2021				551	268	
5/3/2021			752			
9/1/2021	637	619		575		398
9/8/2021			805		332	
3/8/2022						407
3/14/2022			810			
3/15/2022	475	702				
3/16/2022				587	266	
9/20/2022			866			414
9/21/2022				535		
9/26/2022	393	749			240	
4/24/2023					233	421
4/25/2023			744	549		
5/2/2023	368	306				

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				487
9/28/2016				422
11/2/2016				345
1/12/2017				281
3/30/2017				160
4/3/2017				190
5/17/2017				190
6/12/2017				150
9/18/2017				86
3/27/2018				31
5/9/2018				29
10/8/2018				4.7 (J)
4/23/2019				8.17
8/29/2019				92
3/2/2020				19.8
10/15/2020		303	339	
10/20/2020	268			
10/21/2020				7.39
4/27/2021	288	329	342	
5/3/2021				48.2
9/1/2021	279	314	335	
9/8/2021				33.4
3/8/2022	279	296	349	
3/14/2022				51.7
9/20/2022	281			34.599998
9/21/2022		665	305	
4/24/2023	293			
4/25/2023				6.92
5/3/2023		650	343	

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.0002	<0.0002	<0.0002
8/2/2016	0.001					
8/3/2016			0.001			
9/20/2016	0.001					
9/21/2016			0.001			
9/26/2016				<0.0002		
9/27/2016					<0.0002	<0.0002
10/25/2016	0.001		0.001			
10/31/2016					<0.0002	
11/1/2016						<0.0002
11/2/2016				<0.0002		
12/13/2016	0.001		0.001			
1/11/2017				<0.0002	<0.0002	
1/12/2017						<0.0002
2/6/2017			0.001			
2/8/2017	0.001					
2/13/2017				<0.0002		<0.0002
2/14/2017					<0.0002	
3/28/2017			0.001			
3/29/2017	0.001					
4/3/2017				<0.0002		
4/4/2017						<0.0002
4/6/2017					<0.0002	
4/24/2017			0.001			
4/26/2017	0.001					
5/15/2017				<0.0002		
5/16/2017						<0.0002
5/17/2017					<0.0002	
6/7/2017	<0.001		<0.0002			
6/13/2017					<0.0002	
6/14/2017				<0.0002		<0.0002
1/31/2018					<0.0002	
2/1/2018				<0.0002		<0.0002
2/19/2018			<0.0002			
2/20/2018	<0.001					
5/8/2018						<0.0002
5/9/2018				<0.0002		
5/10/2018					<0.0002	
5/15/2018	<0.001		<0.0002			
10/8/2018					<0.0002	
10/9/2018				<0.0002		<0.0002
10/16/2018			<0.0002			
10/17/2018	<0.001					
2/20/2019		<0.0002				
4/16/2019	<0.001		<0.0002			
4/24/2019					<0.0002	
5/1/2019				<0.0002		<0.0002
8/27/2019				<0.0002		
8/28/2019						<0.0002
8/29/2019					<0.0002	
9/24/2019		<0.0002	<0.0002			
3/3/2020						<0.0002

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.0002	<0.0002	
3/18/2020			<0.0002			
3/25/2020	<0.0002					
9/21/2020			<0.0002			
9/23/2020	<0.0002					
10/19/2020				<0.0002	<0.0002	
10/20/2020						<0.0002
2/2/2021	<0.0002		<0.0002			
4/20/2021				<0.0002		
4/21/2021						<0.0002
5/3/2021					<0.0002	
8/2/2021	<0.0002					
8/10/2021			<0.0002			
9/8/2021				<0.0002		
9/14/2021						<0.0002
9/15/2021					<0.0002	
2/14/2022	<0.0002					
2/16/2022			<0.0002			
3/15/2022				<0.0002		
3/16/2022						<0.0002
3/17/2022					<0.0002	
8/2/2022			<0.0002			
8/9/2022	<0.0002					
9/19/2022				<0.0002		
9/20/2022						<0.0002
9/26/2022					<0.0002	
3/22/2023	<0.0002					
3/27/2023			<0.0002			
5/2/2023				<0.0002		
5/3/2023					<0.0002	<0.0002

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.0002	<0.0002
7/20/2016	<0.0002					
9/26/2016					<0.0002	<0.0002
9/27/2016	<0.0002					
10/31/2016					<0.0002	<0.0002
11/1/2016	<0.0002					
1/9/2017					<0.0002	0.000242 (J)
1/11/2017	<0.0002					
2/14/2017					<0.0002	<0.0002
2/15/2017	<0.0002					
4/3/2017						0.000226 (J)
4/4/2017	<0.0002				<0.0002	
5/15/2017	<0.0002					
5/16/2017					<0.0002	<0.0002
6/12/2017					<0.0002	<0.0002
6/14/2017	<0.0002					
1/30/2018	<0.0002					
1/31/2018					<0.0002	
2/1/2018						<0.0002
5/7/2018					<0.0002	0.0003 (J)
5/8/2018	<0.0002					
10/8/2018	<0.0002					
10/9/2018					<0.0002	<0.0002
4/24/2019					<0.0002	<0.0002
8/28/2019	<0.0002				<0.0002	<0.0002
3/3/2020						<0.0002
3/4/2020					<0.0002	
3/10/2020	<0.0002					
10/13/2020					<0.0002	<0.0002
10/19/2020	<0.0002					
10/20/2020		<0.0002	<0.001	<0.0002		
4/21/2021		<0.0002	7.01E-05 (J)	<0.0002		7.18E-05 (J)
4/26/2021					<0.0002	
5/5/2021	<0.0002					
9/1/2021					<0.0002	<0.0002
9/7/2021	<0.0002	<0.0002	8E-05 (J)			
9/13/2021				<0.0002		
3/8/2022						7E-05 (J)
3/9/2022		<0.0002	0.00013 (J)	<0.0002	<0.0002	
3/17/2022	<0.0002					
9/19/2022		<0.0002	0.000159 (J)			
9/20/2022					<0.0002	<0.0002
9/26/2022	<0.0002				<0.0002	
4/18/2023		<0.0002	0.000165 (J)			
4/19/2023					<0.0002	<0.0002
5/2/2023				<0.0002		
5/3/2023	<0.0002					

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.0002		
9/28/2016				0.000214 (J)		
11/1/2016				<0.0002		
1/11/2017				<0.0002		
2/14/2017				0.000219 (J)		
4/4/2017				0.000202 (J)		
5/16/2017				<0.0002		
6/14/2017				0.000266 (J)		
2/1/2018				<0.0002		
5/9/2018				<0.0002		
10/9/2018				<0.0002		
3/6/2019	<0.0002	<0.0002			<0.0002	<0.0002
5/1/2019				<0.0002		
8/27/2019	<0.0002	<0.0002		<0.0002		
9/3/2019					<0.0002	<0.0002
3/3/2020				<0.0002		
3/9/2020			<0.0002			
3/10/2020	<0.0002	<0.0002			<0.0002	<0.0002
10/13/2020	<0.0002	<0.0002				
10/14/2020			<0.0002			
10/19/2020					<0.0002	<0.0002
10/21/2020				<0.0002		
4/20/2021			<0.0002			
4/26/2021				<0.0002		
4/28/2021					<0.0002	
5/3/2021						<0.0002
5/5/2021	<0.0002	<0.0002				
9/7/2021	<0.0002					
9/8/2021					<0.0002	<0.0002
9/13/2021			<0.0002			
9/14/2021		<0.0002		<0.0002		
3/8/2022	<0.0002	<0.0002				
3/9/2022			<0.0002		<0.0002	<0.0002
3/16/2022				<0.0002		
9/14/2022	<0.0002		<0.0002			
9/21/2022		<0.0002			<0.0002	<0.0002
9/26/2022				<0.0002		
4/19/2023	<0.0002				<0.0002	<0.0002
5/1/2023			<0.0002			
5/2/2023		<0.0002		<0.0002		

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.0002					
8/28/2019	<0.0002					
3/9/2020	<0.0002			<0.0002		
10/13/2020	<0.0002					
10/14/2020			<0.0002	<0.0002	<0.0002	
10/20/2020		<0.0002				
10/26/2020	<0.0002					
4/20/2021		<0.0002	<0.0002			
4/27/2021	<0.0002					<0.0002
4/28/2021	<0.0002					
5/5/2021				<0.0002		
6/16/2021	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
9/14/2021	<0.0002	<0.0002				
9/15/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/15/2022					<0.0002	
3/16/2022		<0.0002	<0.0002	<0.0002		<0.0002
3/17/2022	<0.0002	<0.0002				
9/14/2022					<0.0002	<0.0002
9/21/2022	<0.0002	<0.0002	<0.0002	<0.0002		
9/26/2022	<0.0002					
5/1/2023				<0.0002	<0.0002	
5/2/2023	<0.0002					
5/3/2023		<0.0002	<0.0002	<0.0002		

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.0002
3/9/2020		<0.0002				
3/10/2020			<0.0002		<0.0002	
10/14/2020						<0.0002
10/15/2020					<0.0002	
10/19/2020		<0.0002				
10/20/2020			<0.0002			
10/26/2020	<0.0002					
10/27/2020				<0.0002		
4/20/2021		<0.0002				
4/21/2021			<0.0002			
4/27/2021				<0.0002		
4/28/2021					<0.0002	
5/3/2021	<0.0002					<0.0002
9/8/2021						<0.0002
9/13/2021		<0.0002	<0.0002	<0.0002		
9/14/2021	<0.0002				<0.0002	
3/9/2022					<0.0002	
3/14/2022	<0.0002	<0.0002				<0.0002
3/16/2022			<0.0002	<0.0002		
9/19/2022			<0.0002			
9/20/2022		<0.0002		<0.0002		<0.0002
9/21/2022	<0.0002				<0.0002	
4/19/2023		<0.0002			<0.0002	
4/24/2023				<0.0002		
4/25/2023	<0.0002					<0.0002
4/26/2023			<0.0002			

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.0002	<0.0002
9/26/2016					<0.0002	<0.0002
10/31/2016					<0.0002	<0.0002
1/9/2017					<0.0002	<0.0002
2/13/2017					<0.0002	<0.0002
4/3/2017					<0.0002	<0.0002
5/16/2017					<0.0002	<0.0002
6/12/2017					<0.0002	<0.0002
1/29/2018					<0.0002	<0.0002
5/10/2018					<0.0002	<0.0002
10/9/2018					<0.0002	<0.0002
4/22/2019						<0.0002
4/29/2019					<0.0002	
8/27/2019					<0.0002	<0.0002
3/3/2020					<0.0002	<0.0002
3/9/2020	<0.0002			<0.0002		
3/10/2020		<0.0002				
10/13/2020		<0.0002			<0.0002	<0.0002
10/19/2020				<0.0002		
10/21/2020	<0.0002					
10/27/2020			<0.0002			
4/21/2021	<0.0002		<0.0002			
5/3/2021				<0.0002		
5/5/2021		<0.0002			<0.0002	<0.0002
9/7/2021		<0.0002			<0.0002	<0.0002
9/13/2021	<0.0002		<0.0002			
9/15/2021				<0.0002		
3/8/2022		<0.0002				
3/9/2022	<0.0002					
3/16/2022			<0.0002		<0.0002	<0.0002
3/17/2022				<0.0002		
9/14/2022			<0.0002			
9/19/2022	<0.0002	<0.0002			<0.0002	<0.0002
9/27/2022				<0.0002		
4/18/2023		<0.0002		<0.0002		
4/25/2023			<0.0002			
5/2/2023	<0.0002				<0.0002	<0.0002

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/27/2023 8:44 AM
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.0002					
7/26/2016			<0.0002	<0.0002		
9/27/2016	<0.0002					
9/28/2016			<0.0002	<0.0002		
11/1/2016	<0.0002			<0.0002		
11/2/2016			<0.0002			
1/9/2017	<0.0002			<0.0002		
1/10/2017			<0.0002			
2/13/2017	<0.0002			<0.0002		
2/14/2017			<0.0002			
4/3/2017			<0.0002	<0.0002		
4/4/2017	<0.0002					
5/16/2017	<0.0002			<0.0002		
5/17/2017			<0.0002			
6/12/2017	<0.0002		<0.0002	<0.0002		
1/29/2018	<0.0002					
2/1/2018			<0.0002	<0.0002		
5/9/2018	<0.0002		<0.0002	<0.0002		
10/8/2018	<0.0002		<0.0002	<0.0002		
3/5/2019		<0.0002			<0.0002	
4/23/2019			<0.0002	<0.0002		
4/29/2019	<0.0002					
8/27/2019	<0.0002	<0.0002				
8/28/2019			<0.0002	<0.0002	<0.0002	
3/2/2020			<0.0002			
3/3/2020				<0.0002	<0.0002	
3/4/2020	<0.0002	<0.0002				
10/14/2020	<0.0002	<0.0002				
10/19/2020					<0.0002	
10/20/2020				<0.0002		<0.0002
10/21/2020			<0.0002			
4/26/2021	<0.0002	<0.0002				
4/27/2021						<0.0002
4/28/2021				<0.0002	<0.0002	
5/3/2021			<0.0002			
9/1/2021	<0.0002	<0.0002		<0.0002		<0.0002
9/8/2021			<0.0002		<0.0002	
3/8/2022						<0.0002
3/14/2022			<0.0002			
3/15/2022	7E-05 (J)	<0.0002				
3/16/2022				<0.0002	<0.0002	
9/20/2022			<0.0002			<0.0002
9/21/2022				<0.0002		
9/26/2022	<0.0002	<0.0002			<0.0002	
4/24/2023					<0.0002	<0.0002
4/25/2023			<0.0002	<0.0002		
5/2/2023	<0.0002	<0.0002				

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/27/2023 8:44 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.0002
9/28/2016				<0.0002
11/2/2016				<0.0002
1/12/2017				<0.0002
2/13/2017				<0.0002
4/3/2017				<0.0002
5/17/2017				<0.0002
6/12/2017				<0.0002
2/1/2018				<0.0002
5/9/2018				<0.0002
10/8/2018				<0.0002
4/23/2019				<0.0002
8/29/2019				<0.0002
3/2/2020				<0.0002
10/15/2020		<0.0002	<0.0002	
10/20/2020	<0.0002			
10/21/2020				<0.0002
4/27/2021	<0.0002	<0.0002	<0.0002	
5/3/2021				<0.0002
9/1/2021	<0.0002	<0.0002	<0.0002	
9/8/2021				<0.0002
3/8/2022	<0.0002	<0.0002	<0.0002	
3/14/2022				<0.0002
9/20/2022	<0.0002			<0.0002
9/21/2022		<0.0002	<0.0002	
4/24/2023	<0.0002			
4/25/2023				<0.0002
5/3/2023		<0.0002	<0.0002	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				1060	1440	456
8/2/2016	221					
8/3/2016			113			
9/20/2016	221					
9/21/2016			128			
9/26/2016				852		
9/27/2016					1310	1170
10/25/2016	226		121			
10/31/2016					1360	
11/1/2016						1160
11/2/2016				888		
12/13/2016	211		101			
1/11/2017				920	1310	
1/12/2017						1180
2/6/2017			108			
2/8/2017	212					
2/13/2017				848		1130
2/14/2017					1270	
3/28/2017			91			
3/29/2017	217					
4/3/2017				1000		
4/4/2017						1140
4/6/2017					1320	
4/24/2017			89.3			
4/26/2017	202					
5/15/2017				870		
5/16/2017						1080
5/17/2017					1280	
6/7/2017	218		84			
6/13/2017					1310	
6/14/2017				910		1220
8/21/2017			91.3			
8/22/2017	224					
9/19/2017				824		1140
9/21/2017					1350	
5/8/2018						1070
5/9/2018				1020		
5/10/2018					1310	
5/15/2018	209		94.7			
10/8/2018					1430 (D)	
10/9/2018				830 (D)		1010 (D)
10/16/2018			76.7			
10/17/2018	208					
2/20/2019		346				
4/16/2019	185		92			
4/24/2019					1460	
5/1/2019				694		996
8/27/2019				1120		
8/28/2019						1050
8/29/2019					1550	
9/24/2019		365	109			
3/3/2020						1070

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				815	1720	
3/18/2020			90.7			
3/25/2020	364					
9/21/2020			94			
9/23/2020	368					
10/19/2020				530	1430	
10/20/2020						1050
2/2/2021	356		98.7			
4/20/2021				630		
4/21/2021						1060
5/3/2021					1510	
8/2/2021	333					
8/10/2021			101			
9/8/2021				858		
9/14/2021						1000
9/15/2021					1490	
2/14/2022	365					
2/16/2022			90.7			
3/15/2022				897		
3/16/2022						1120
3/17/2022					1230	
8/2/2022			97.300003			
8/9/2022	344					
9/19/2022				1060		
9/20/2022						1140
9/26/2022					2550	
3/22/2023	344					
3/27/2023			100			
5/2/2023				920		
5/3/2023					2110	1240

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					255	1080
7/20/2016	1620					
9/26/2016					259	1140
9/27/2016	1560					
10/31/2016					265	1010
11/1/2016	1580					
1/9/2017					276	1250
1/11/2017	1570					
2/14/2017					246	1180
2/15/2017	1470					
4/3/2017						846
4/4/2017	1840				257	
5/15/2017	1660					
5/16/2017					283	880
6/12/2017					266	872
6/14/2017	1960					
9/19/2017					266	848
9/21/2017	2030					
5/7/2018					264	742
5/8/2018	2400					
10/8/2018	2630 (D)					
10/9/2018					239 (D)	982 (D)
4/24/2019					234	646
8/28/2019	2850				397	642
3/3/2020						378
3/4/2020					269	
3/10/2020	2420					
10/13/2020					280	738
10/19/2020	2540					
10/20/2020		314	604	219		
4/21/2021		518	1040	232		688
4/26/2021					352	
5/5/2021	2530					
9/1/2021					359	702
9/7/2021	2940	494	1310			
9/13/2021				237		
3/8/2022						738
3/9/2022		574	1300	217	279	
3/17/2022	2580					
9/19/2022		542	1100			
9/20/2022					594	826
9/26/2022	1560			227		
4/18/2023		384	1030			
4/19/2023					428	472
5/2/2023				242		
5/3/2023	1050					

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				2040		
9/28/2016				2420		
11/1/2016				2180		
1/11/2017				2320		
2/14/2017				2380		
4/4/2017				2360		
5/16/2017				2400		
6/14/2017				2520		
9/20/2017				2500		
5/9/2018				2040		
10/9/2018				2460 (D)		
3/6/2019	389	398			1260	894
5/1/2019				2370		
8/27/2019	436	937		2470		
9/3/2019					1320	929
3/3/2020				2520		
3/9/2020			900			
3/10/2020	370	328			1290	944
10/13/2020	433	823				
10/14/2020			1300			
10/19/2020					1130	862
10/21/2020				2190		
4/20/2021			1500			
4/26/2021				2560		
4/28/2021					1140	
5/3/2021						774
5/5/2021	514	646				
9/7/2021	417					
9/8/2021					1180	778
9/13/2021			1020			
9/14/2021		682		2400		
3/8/2022	376	360				
3/9/2022			1020		1120	688
3/16/2022				2420		
9/14/2022	497		1410			
9/21/2022		658			1130	586
9/26/2022				2350		
4/19/2023	311				1100	477
5/1/2023			1180			
5/2/2023		400		2400		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	397					
8/28/2019	446					
3/9/2020	496			4720		
10/13/2020	534					
10/14/2020			730	4840	4620	
10/20/2020		780				
10/26/2020	4010					
4/20/2021		474	590			
4/27/2021	3900				4610	
4/28/2021	499					
5/5/2021				4620		
6/16/2021	4030	455	612		4720	
9/14/2021	440	4200				
9/15/2021		423	662	4630	4800	
3/15/2022				4680		
3/16/2022		391	648		4520	
3/17/2022	460	4600				
9/14/2022				4870	4920	
9/21/2022	4470	449	710			
9/26/2022	459					
5/1/2023				4860	4960	
5/2/2023	552					
5/3/2023	1400	370	715			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						1020
3/9/2020		375				
3/10/2020			1720		216	
10/14/2020						1170
10/15/2020					232	
10/19/2020		458				
10/20/2020			1840			
10/26/2020	321					
10/27/2020				886		
4/20/2021		370				
4/21/2021			1700			
4/27/2021				880		
4/28/2021					252	
5/3/2021	314					1160
9/8/2021						1220
9/13/2021		428	1440	842		
9/14/2021	315				239	
3/9/2022					234	
3/14/2022	314	377				1080
3/16/2022			1380	856		
9/19/2022			1410			
9/20/2022		331		915		1180
9/21/2022	323				246	
4/19/2023		322			187	
4/24/2023				830		
4/25/2023	439					1090
4/26/2023			1370			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					1530	704
9/26/2016					1480	594
10/31/2016					1430	572
1/9/2017					1500	608
2/13/2017					1380	584
4/3/2017					1370	606
5/16/2017					1300	608
6/12/2017					1300	644
9/20/2017					1180	592
5/10/2018					1060	606
10/9/2018					1220 (D)	536 (D)
4/22/2019						930
4/29/2019					956	
8/27/2019					960	837
3/3/2020					840	953
3/9/2020	1100			312		
3/10/2020		438				
10/13/2020		455			937	793
10/19/2020				295		
10/21/2020	1540					
10/27/2020			913			
4/21/2021	1690		1660			
5/3/2021				310		
5/5/2021		444			883	748
9/7/2021		451			924	706
9/13/2021	1270		1790			
9/15/2021				301		
3/8/2022		432				
3/9/2022	909					
3/16/2022			2080		698	698
3/17/2022				305		
9/14/2022			1860			
9/19/2022	976	442			756	644
9/27/2022				314		
4/18/2023		332		293		
4/25/2023			1760			
5/2/2023	920				630	638

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	1520					
7/26/2016			1630	868		
9/27/2016	1540					
9/28/2016			1600	884		
11/1/2016	1510			862		
11/2/2016			1640			
1/9/2017	1510			918		
1/10/2017			1660			
2/13/2017	1460			896		
2/14/2017			1600			
4/3/2017			1600	852		
4/4/2017	1270					
5/16/2017	1420			924		
5/17/2017			1630			
6/12/2017	1380		1770	928		
9/18/2017			1530	908		
9/20/2017	1270					
5/9/2018	1040		1430	908		
10/8/2018	1180 (D)		1300 (D)	882 (D)		
3/5/2019		852			840	
4/23/2019			1390	882		
4/29/2019	1180					
8/27/2019	1120	1190				
8/28/2019			1370	903	560	
3/2/2020			1270			
3/3/2020				926	622	
3/4/2020	904	736				
10/14/2020	934	963				
10/19/2020					594	
10/20/2020				876		818
10/21/2020			1190			
4/26/2021	930	916				
4/27/2021						798
4/28/2021				937	614	
5/3/2021			1220			
9/1/2021	1050	1050		957		838
9/8/2021			1220		708	
3/8/2022						798
3/14/2022			1190			
3/15/2022	800	1070				
3/16/2022				894	592	
9/20/2022			1140			824
9/21/2022				914		
9/26/2022	694	1150			576	
4/24/2023					656	806
4/25/2023			1200	896		
5/2/2023	724	630				

Time Series

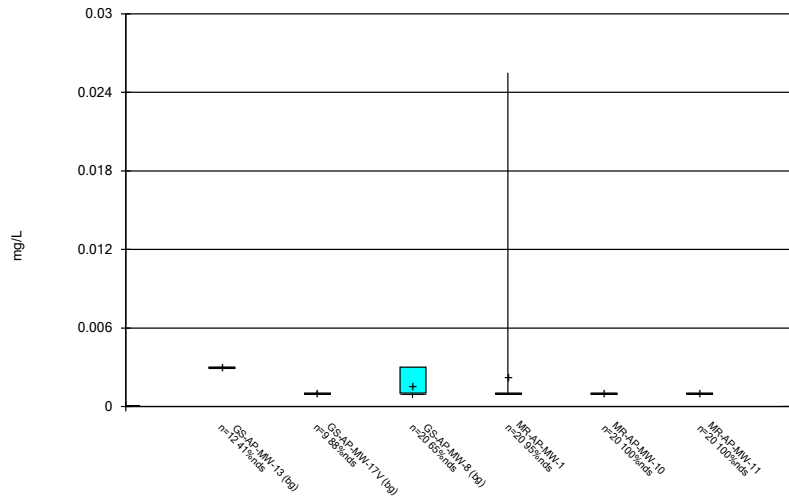
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/27/2023 8:44 AM

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				1040
9/28/2016				1000
11/2/2016				920
1/12/2017				812
2/13/2017				832
4/3/2017				710
5/17/2017				718
6/12/2017				724
9/18/2017				616
5/9/2018				486
10/8/2018				464 (D)
4/23/2019				478
8/29/2019				734
3/2/2020				594
10/15/2020		654	686	
10/20/2020	588			
10/21/2020				594
4/27/2021	624	646	634	
5/3/2021				762
9/1/2021	646	636	658	
9/8/2021				690
3/8/2022	598	594	614	
3/14/2022				748
9/20/2022	638			746
9/21/2022		1230	734	
4/24/2023	640			
4/25/2023				712
5/3/2023		1190	754	

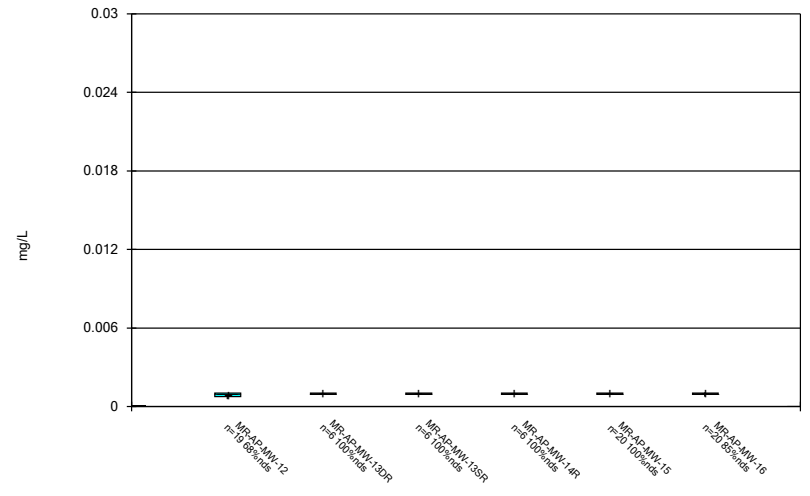
FIGURE B.

Box & Whiskers Plot



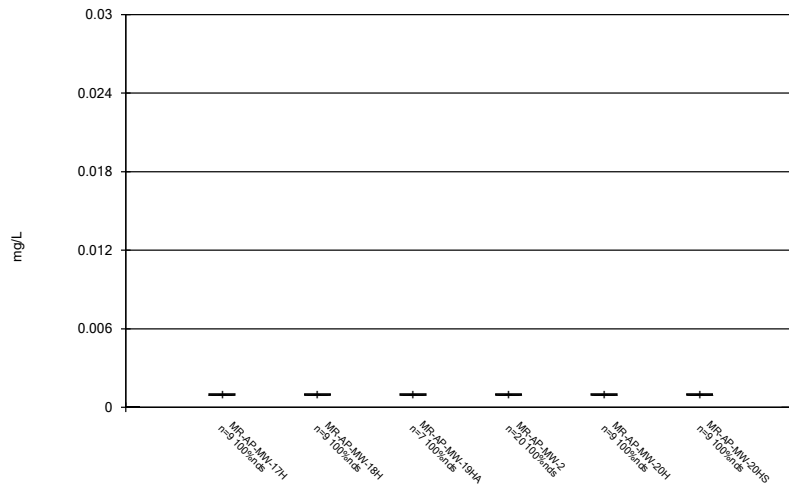
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



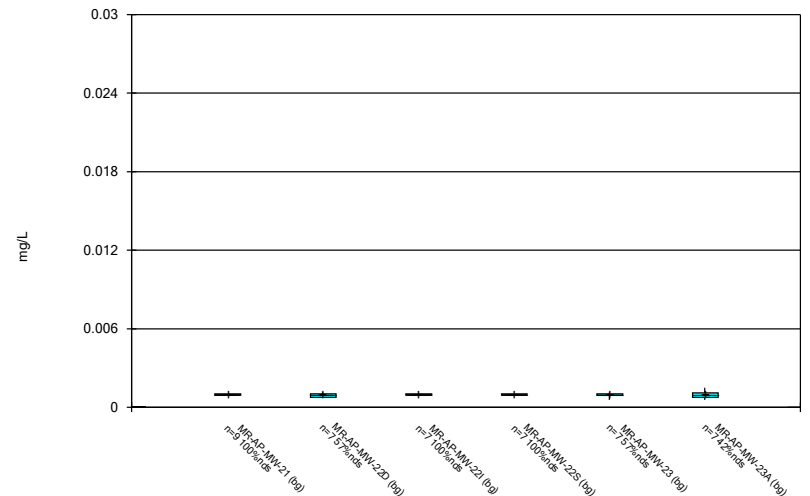
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Box & Whiskers Plot



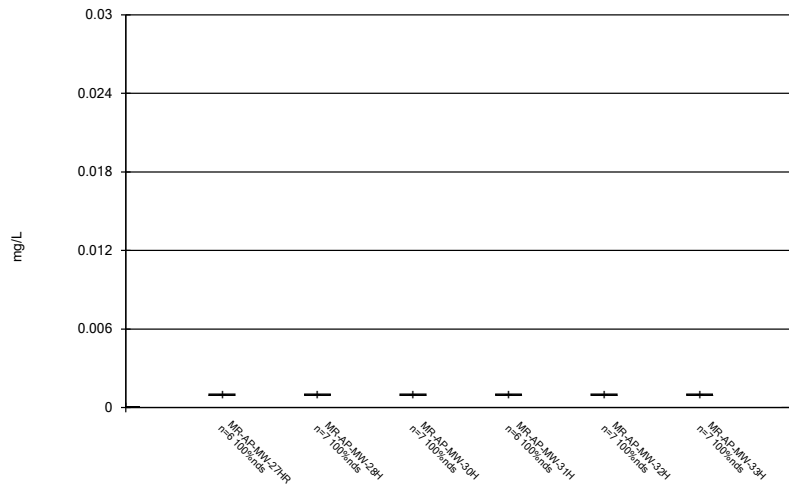
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Box & Whiskers Plot



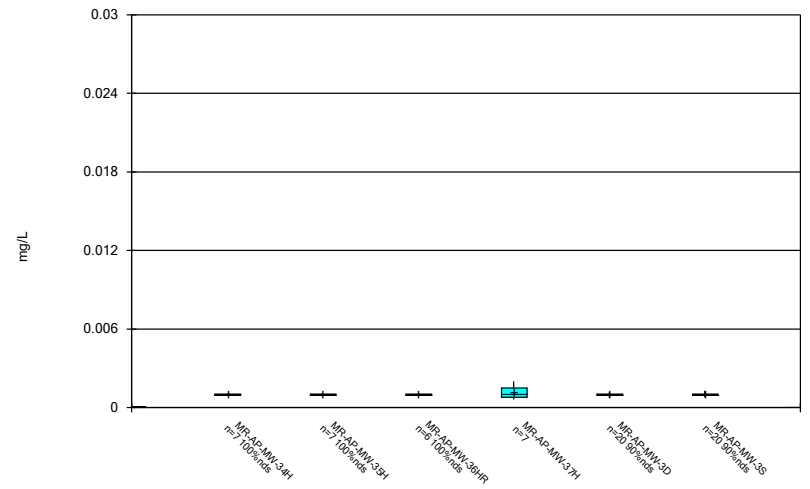
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



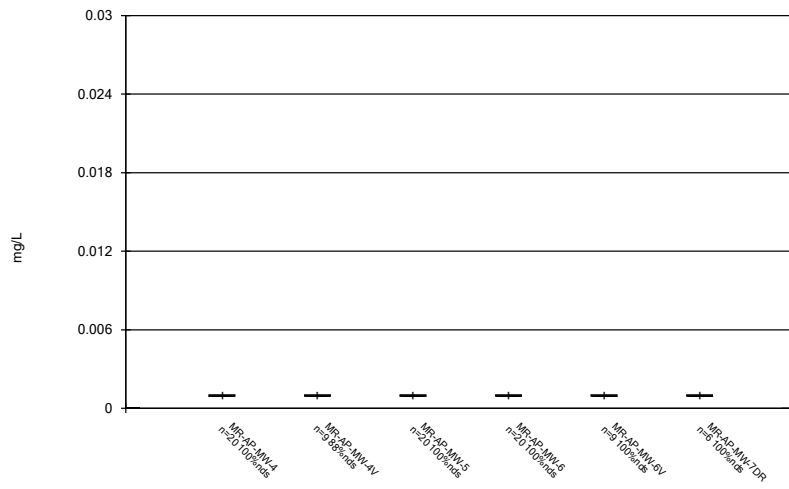
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



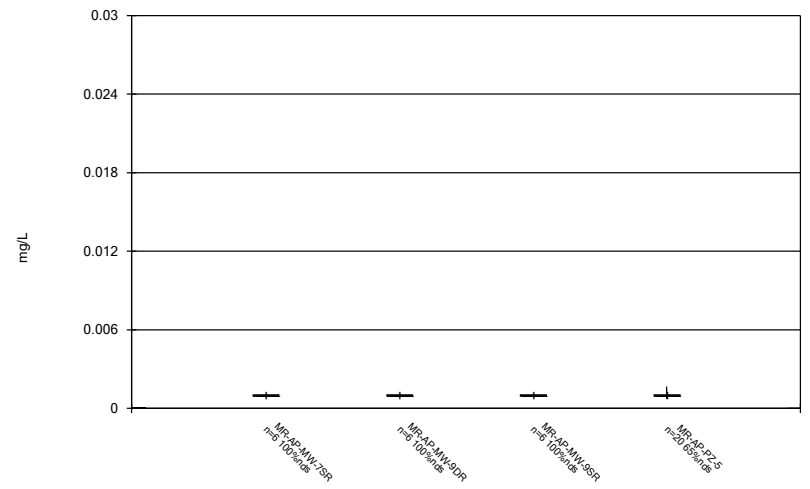
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Box & Whiskers Plot



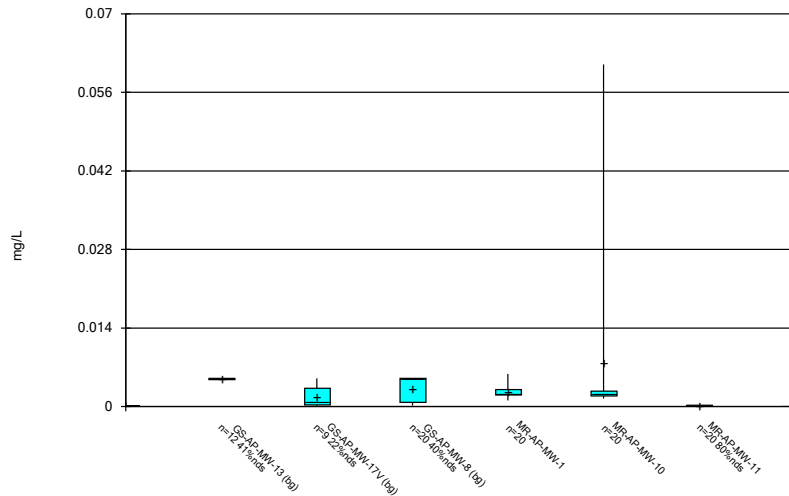
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Box & Whiskers Plot



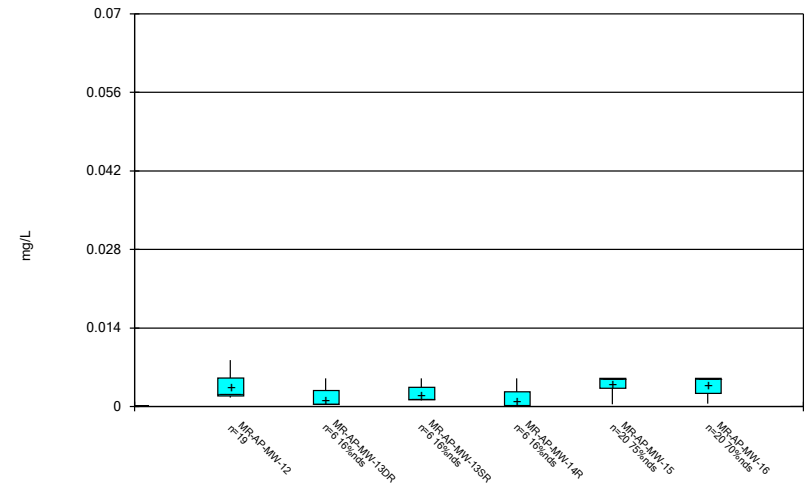
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Box & Whiskers Plot



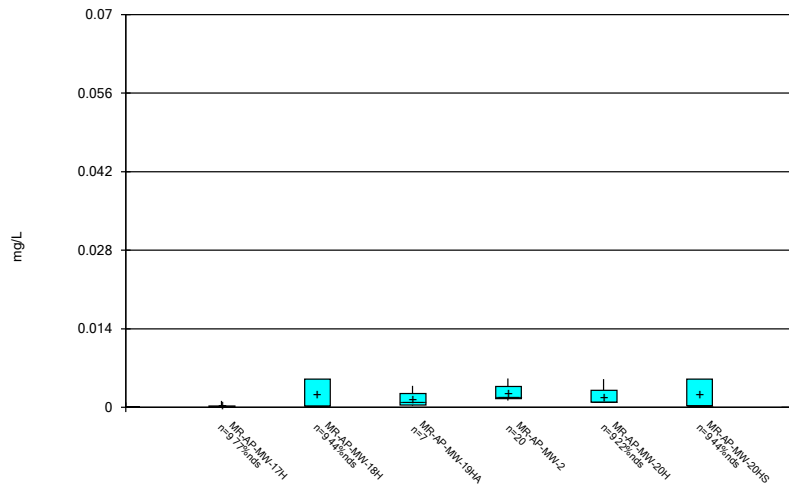
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



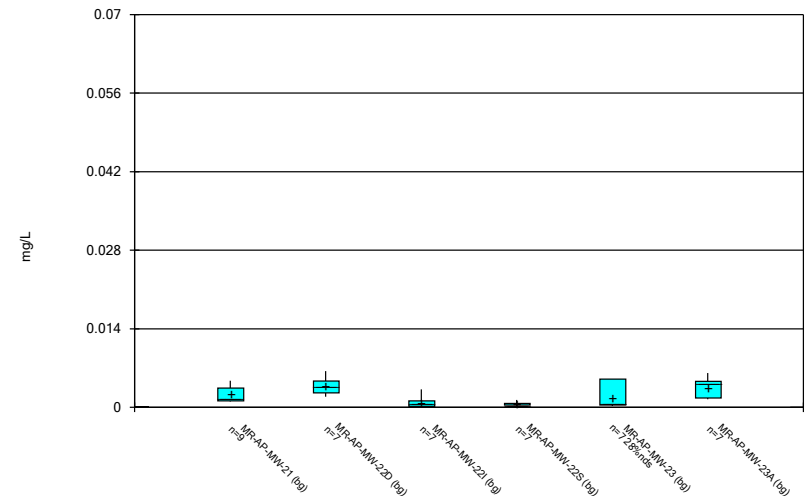
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Box & Whiskers Plot



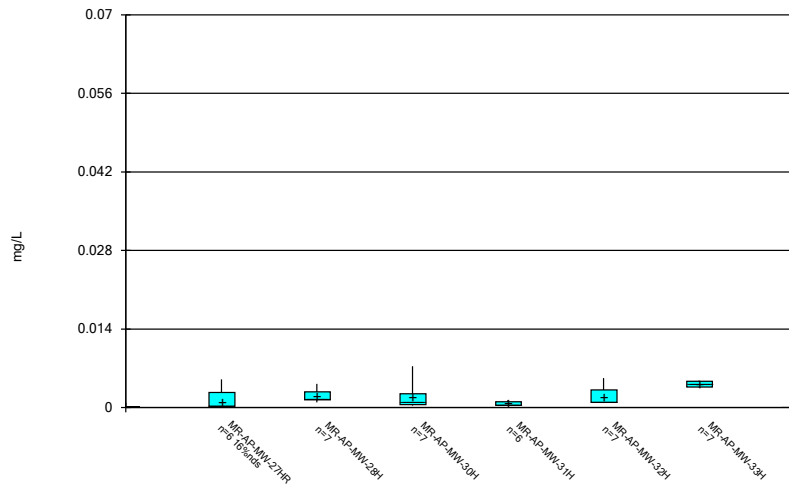
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Box & Whiskers Plot



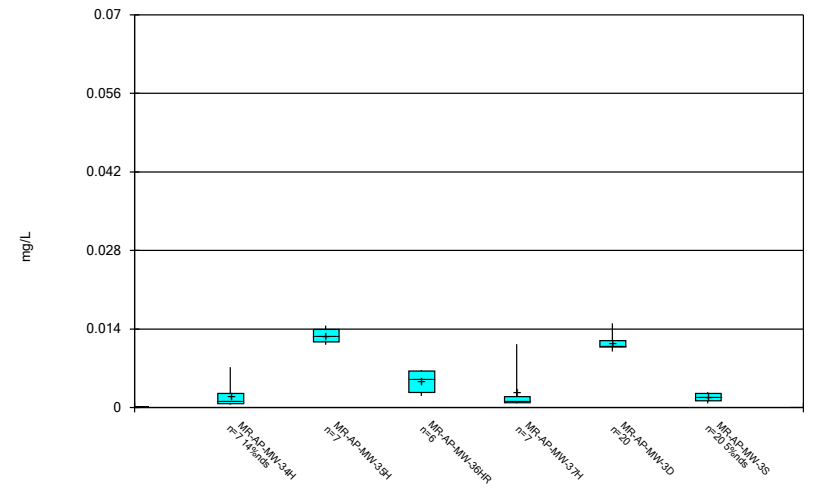
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Box & Whiskers Plot



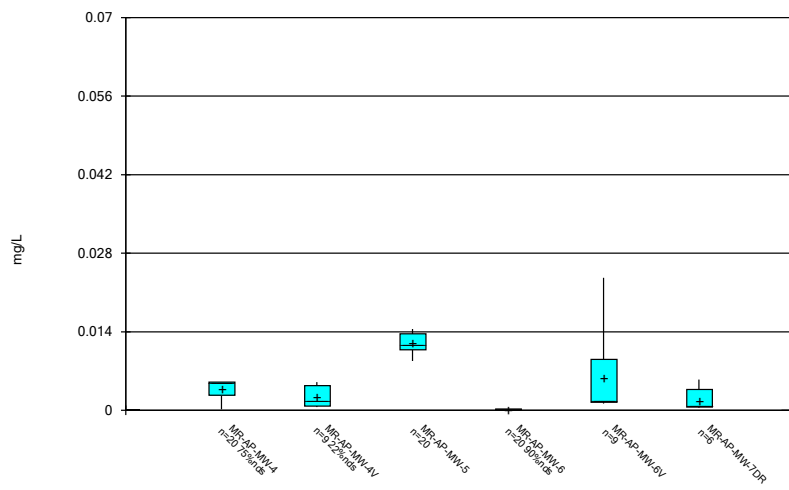
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Box & Whiskers Plot



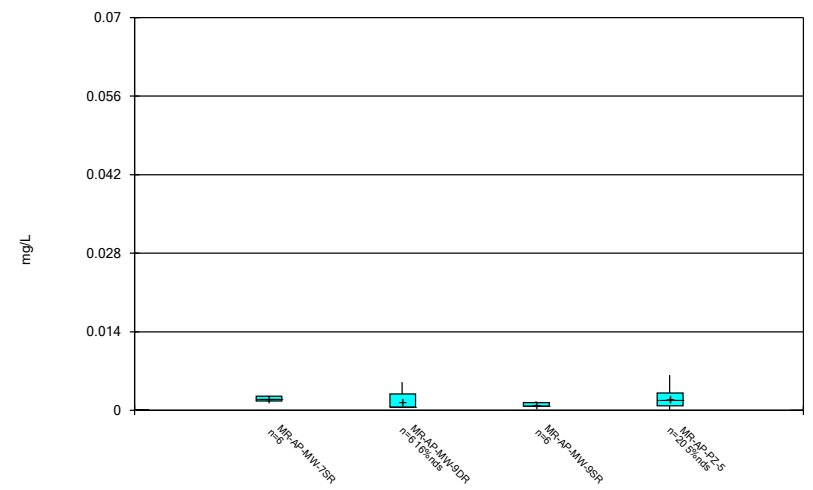
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Box & Whiskers Plot



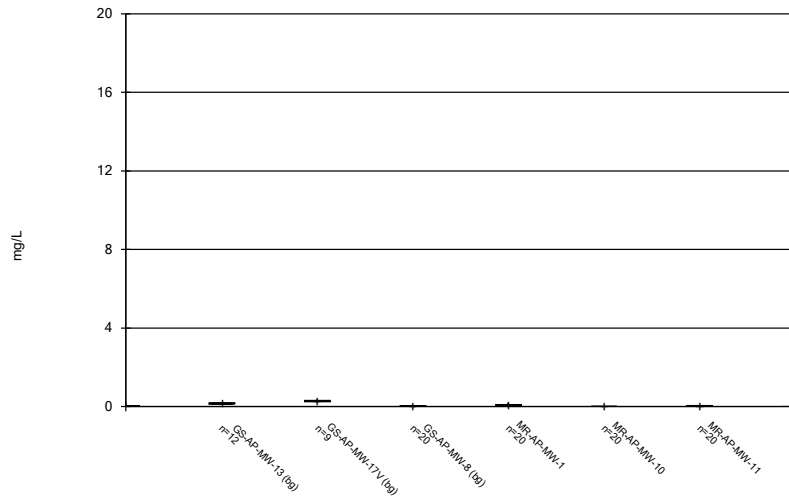
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Box & Whiskers Plot



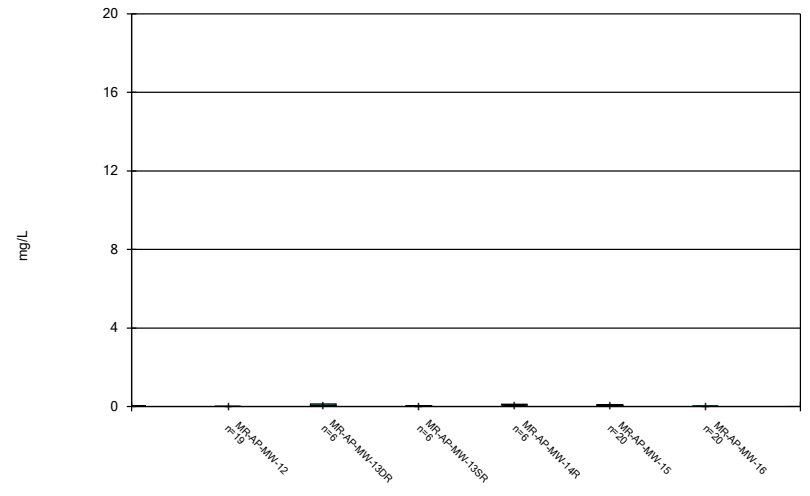
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Box & Whiskers Plot



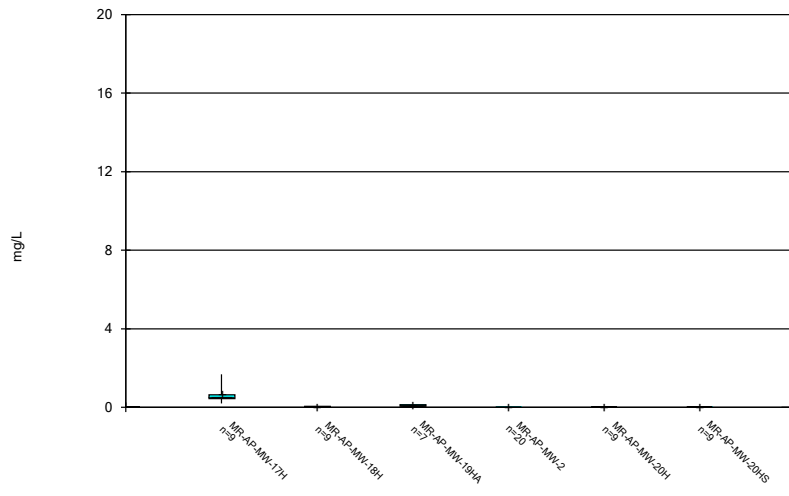
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



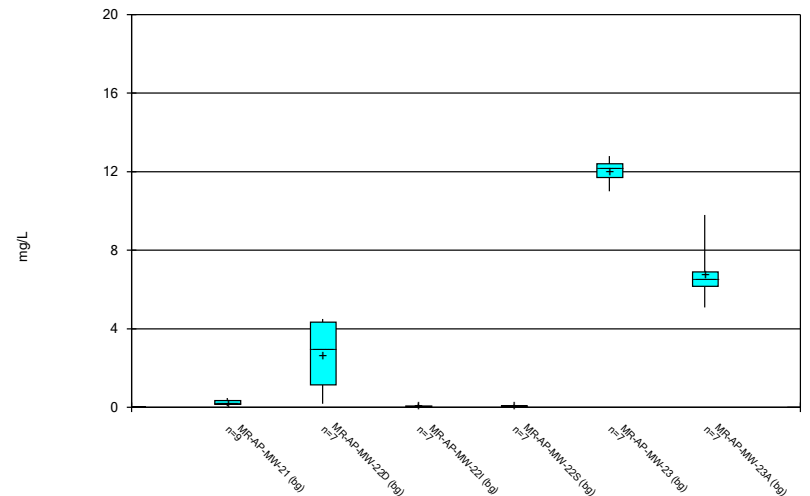
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Box & Whiskers Plot



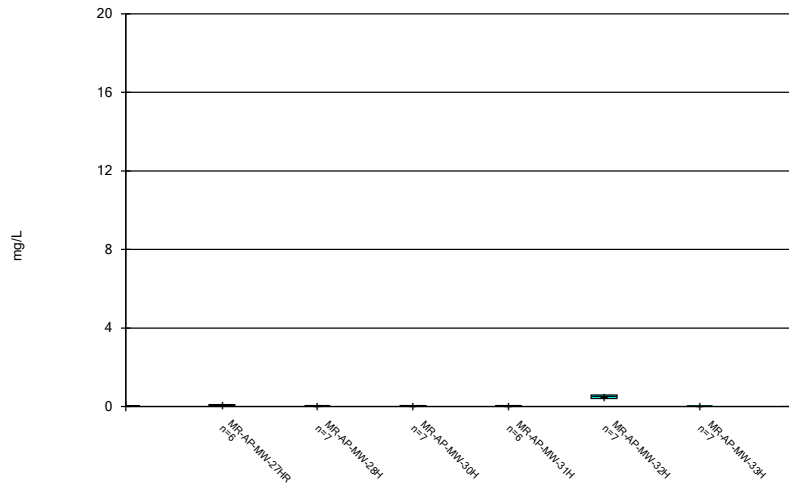
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Box & Whiskers Plot



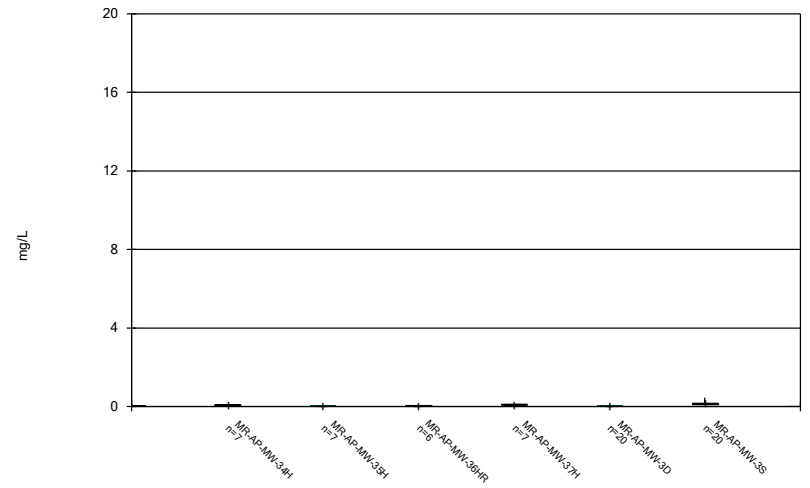
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Box & Whiskers Plot



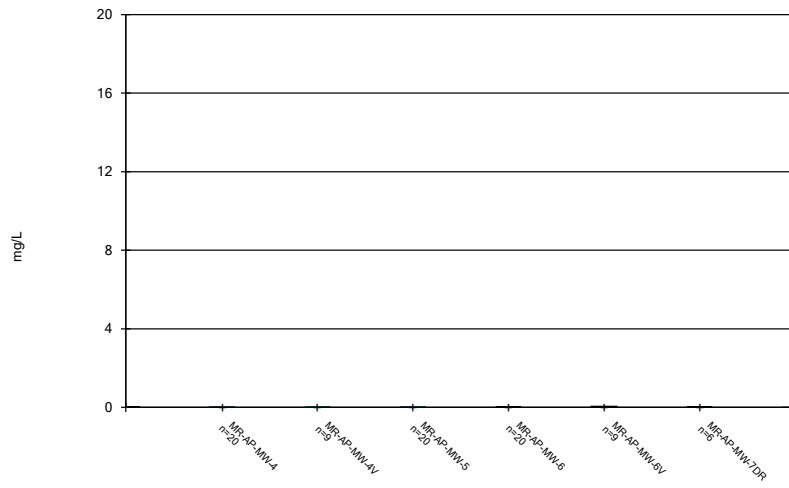
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Box & Whiskers Plot



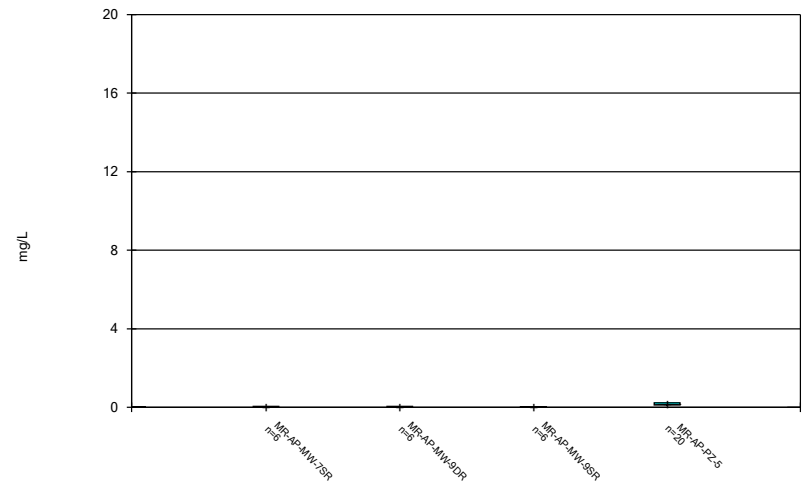
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Box & Whiskers Plot



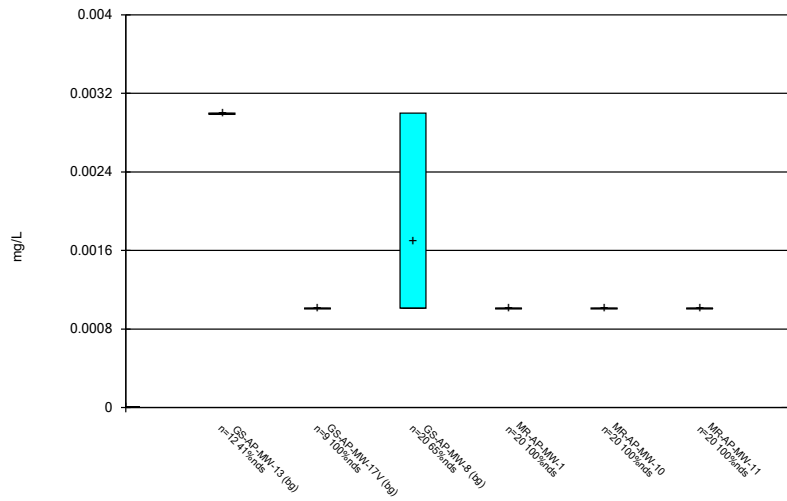
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Box & Whiskers Plot



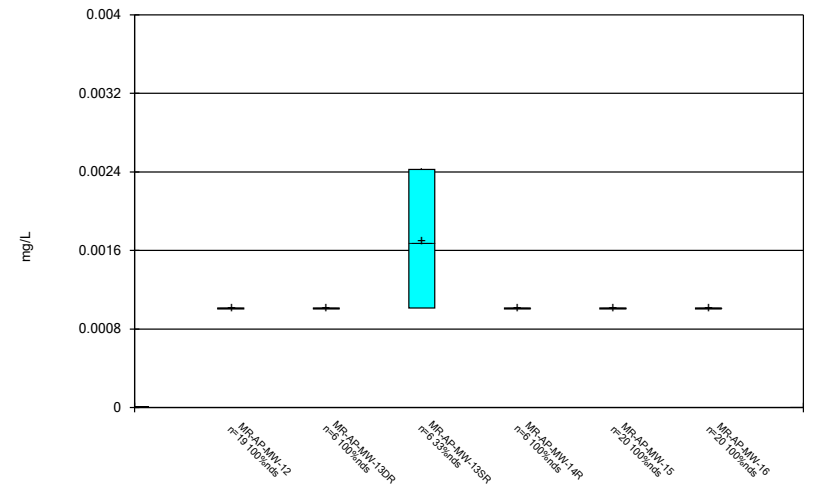
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Box & Whiskers Plot



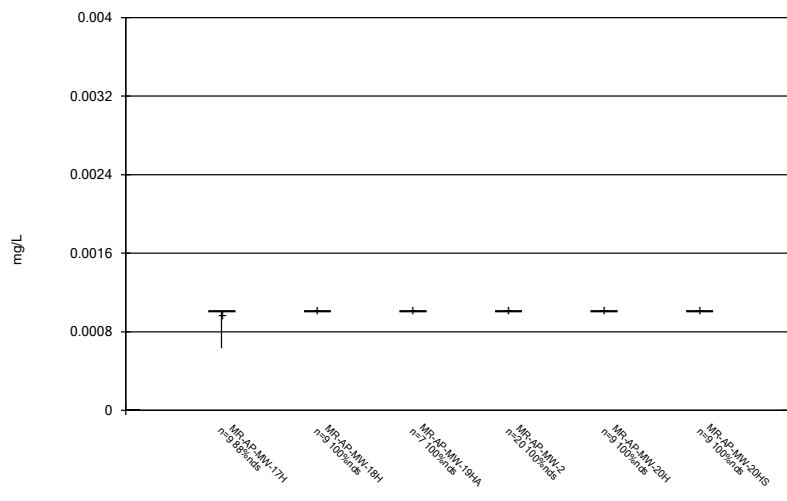
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Box & Whiskers Plot



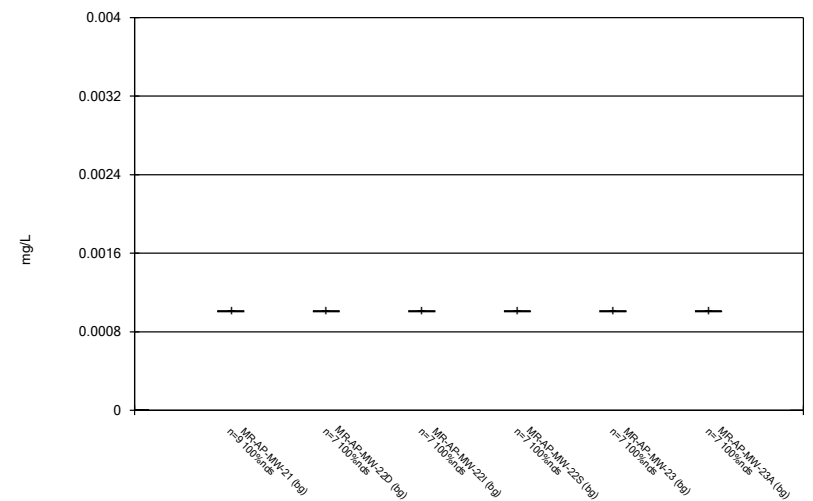
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Box & Whiskers Plot



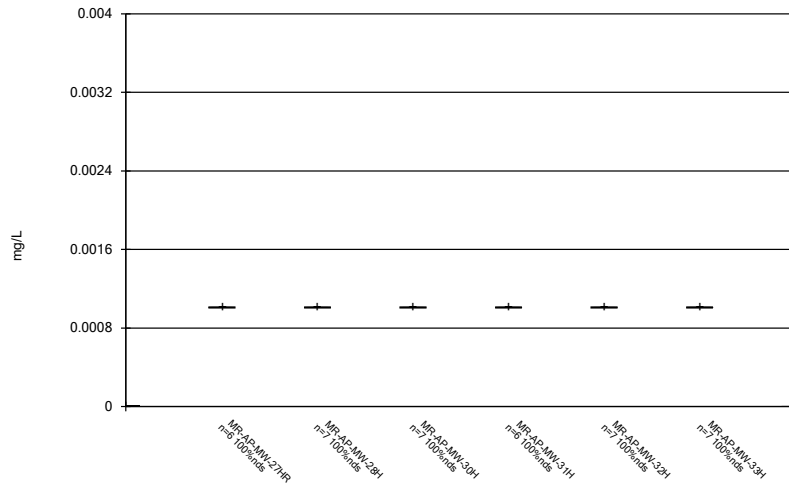
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Box & Whiskers Plot



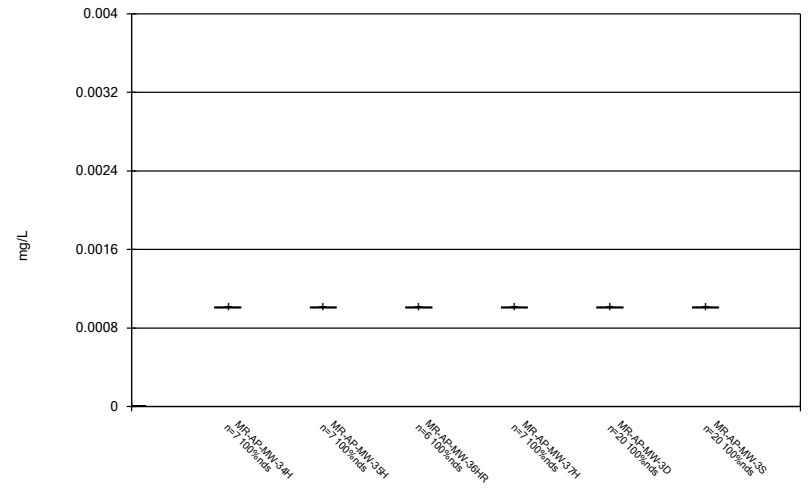
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Box & Whiskers Plot



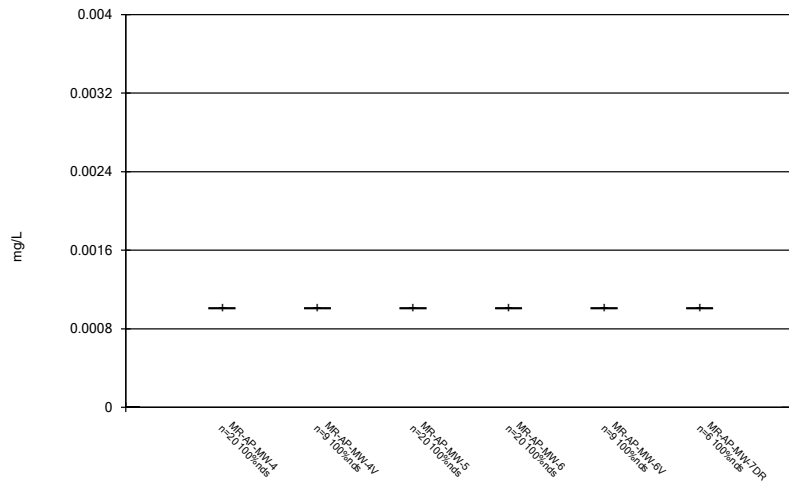
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Box & Whiskers Plot



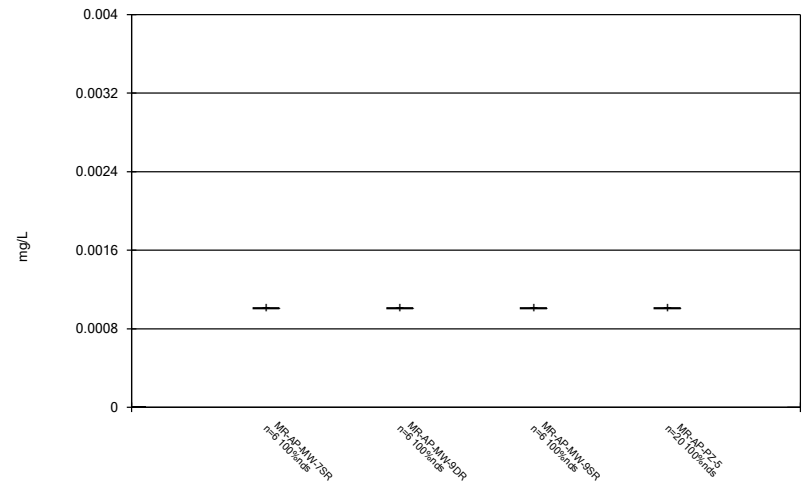
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Box & Whiskers Plot



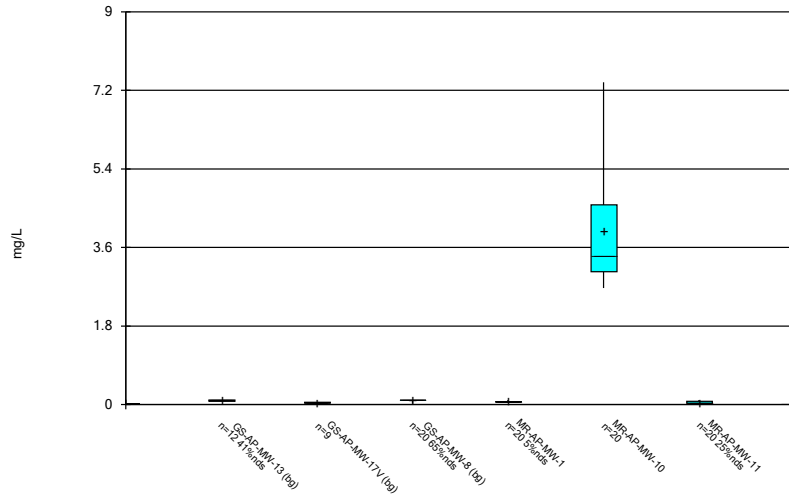
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Box & Whiskers Plot



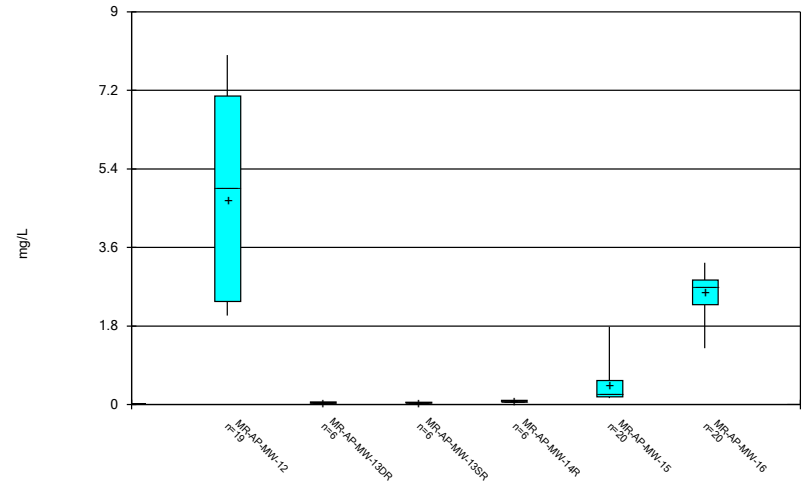
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



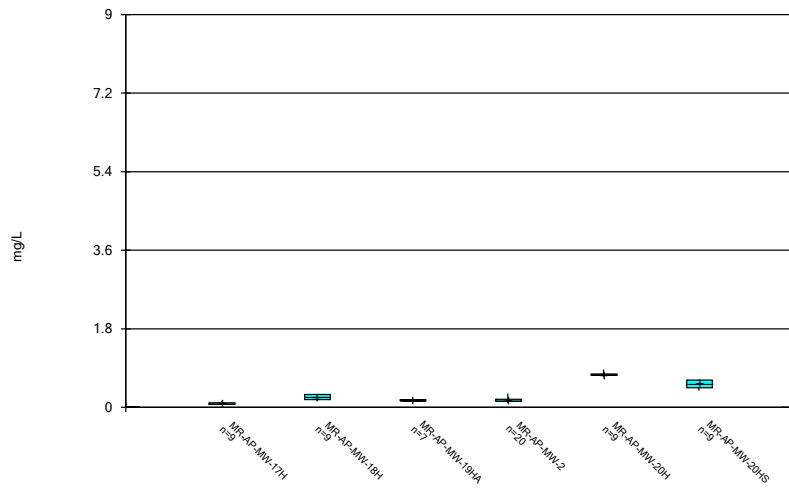
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



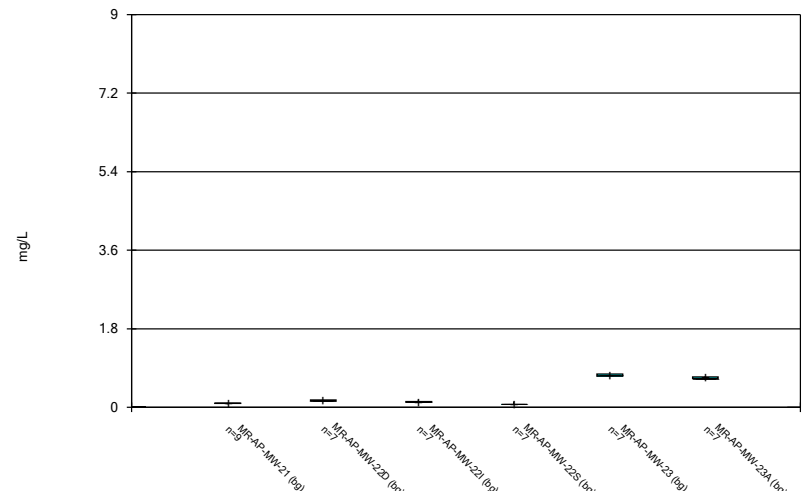
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



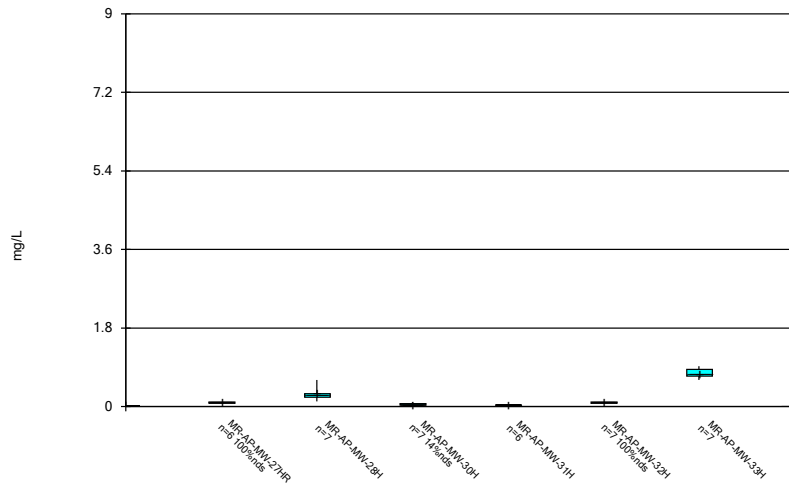
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



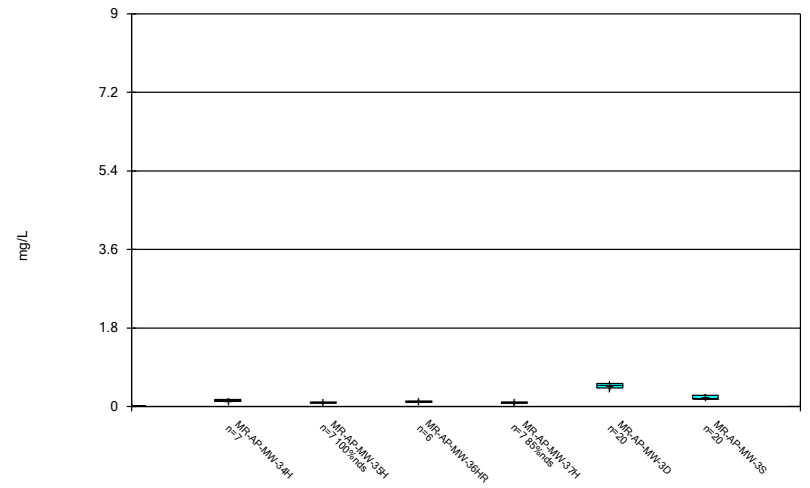
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Box & Whiskers Plot



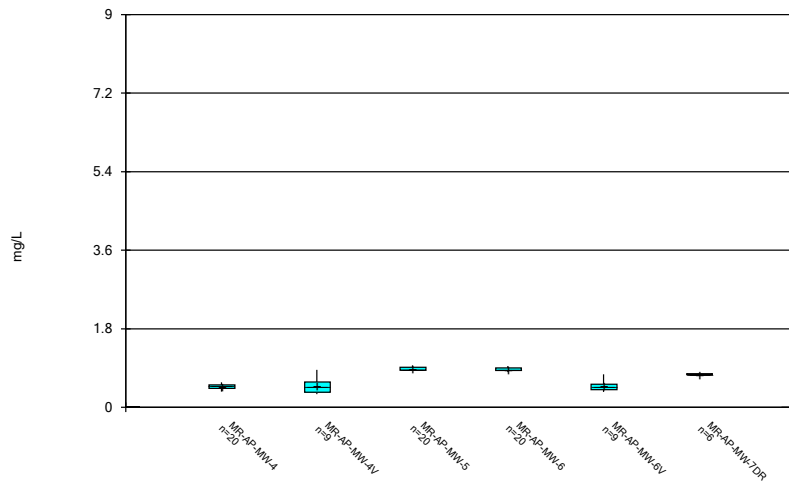
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Box & Whiskers Plot



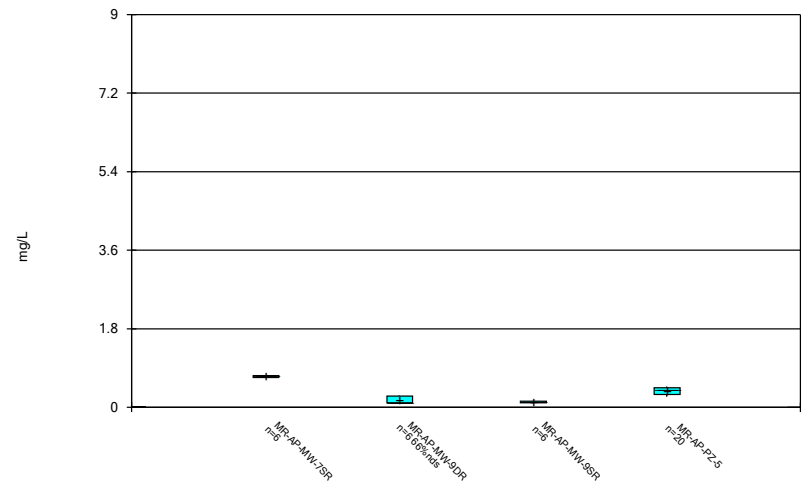
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



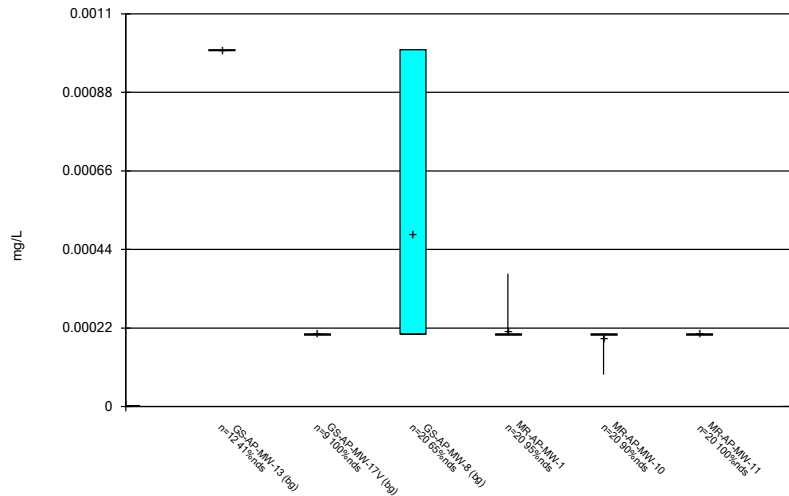
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Box & Whiskers Plot



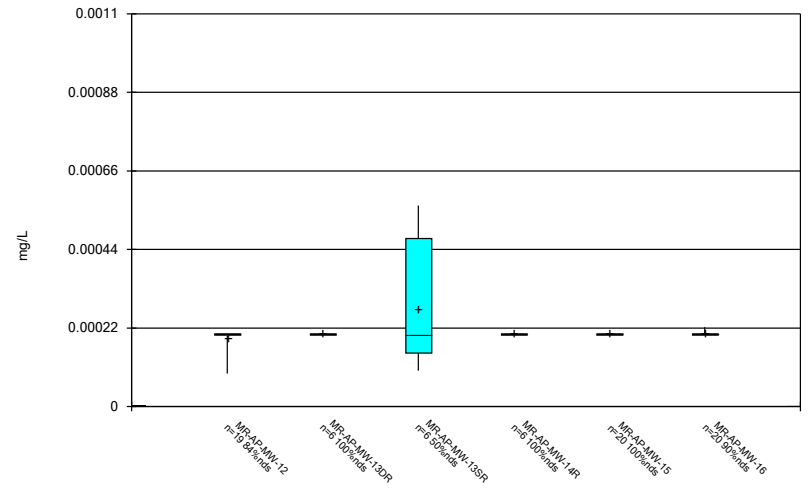
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Box & Whiskers Plot



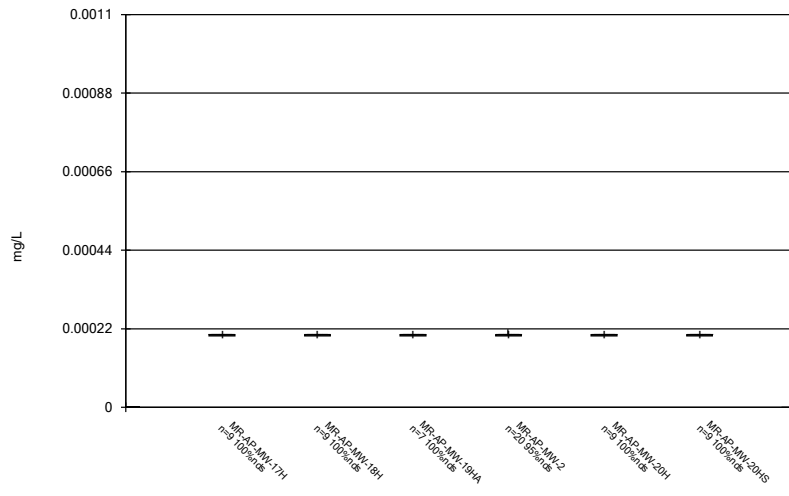
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Box & Whiskers Plot



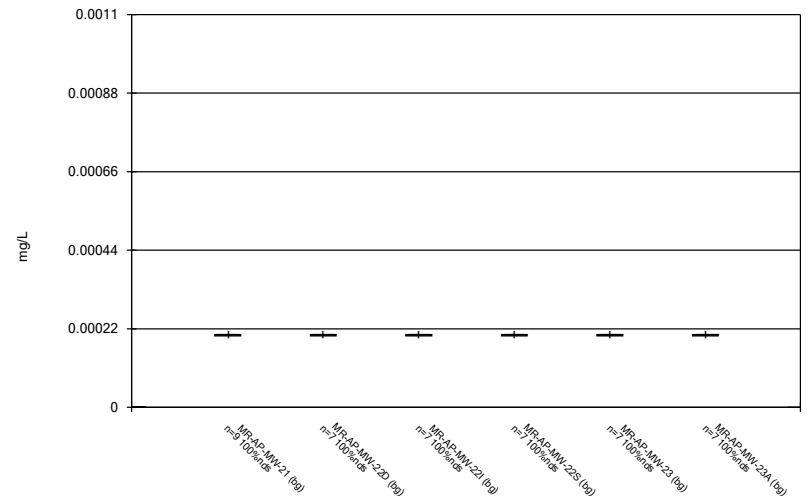
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Box & Whiskers Plot



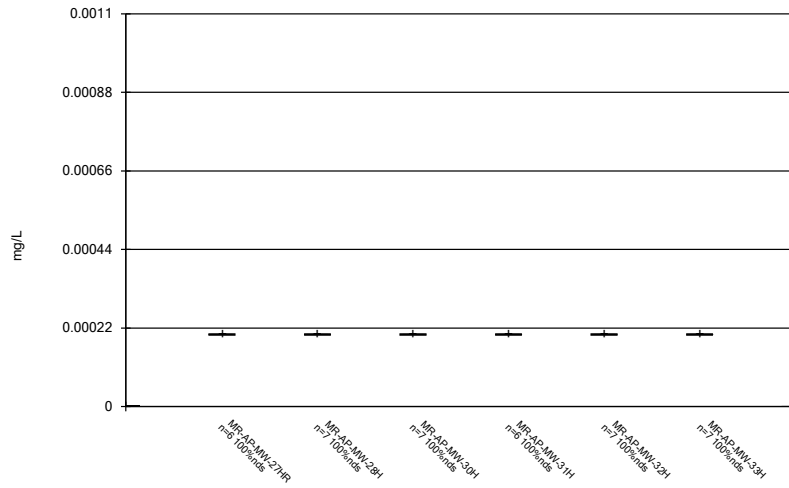
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Box & Whiskers Plot



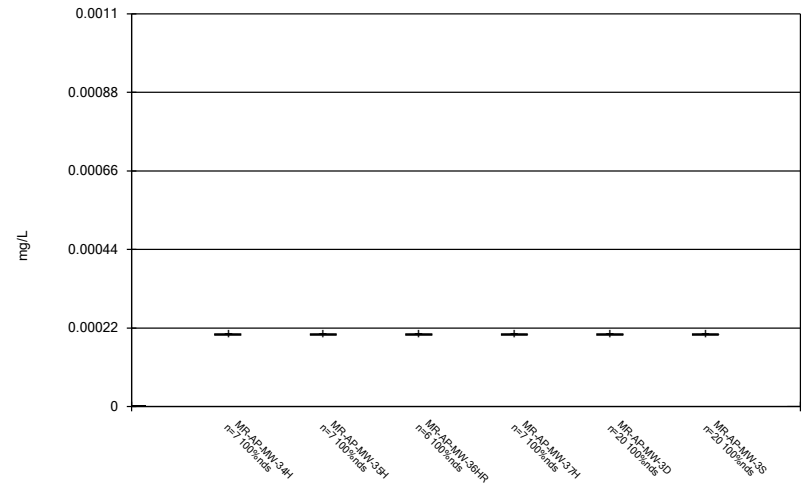
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Box & Whiskers Plot



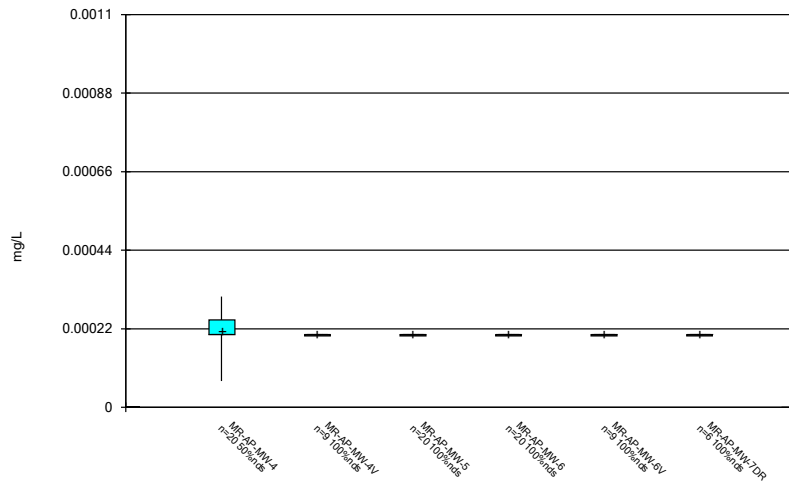
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Box & Whiskers Plot



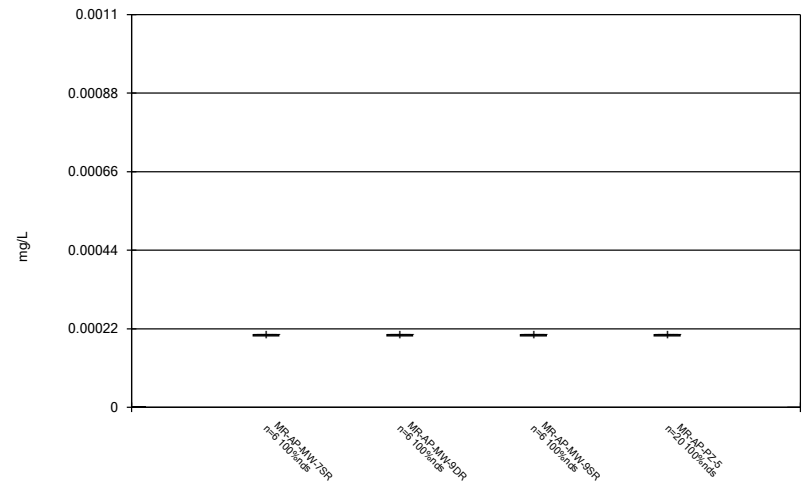
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Box & Whiskers Plot



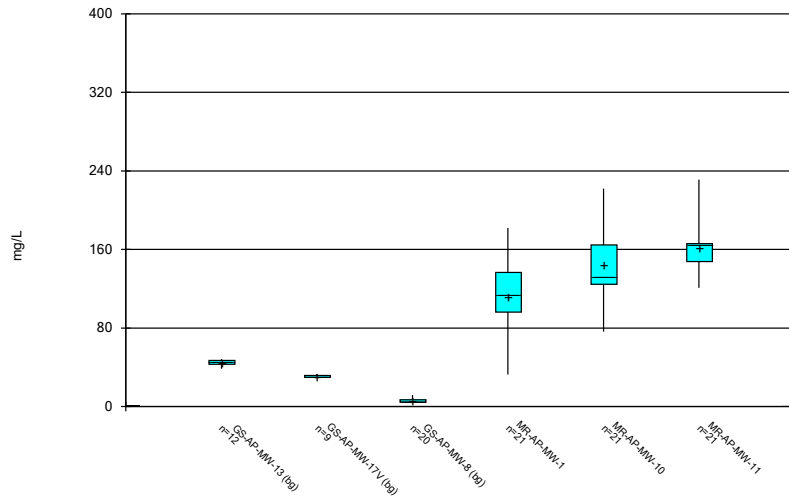
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Box & Whiskers Plot



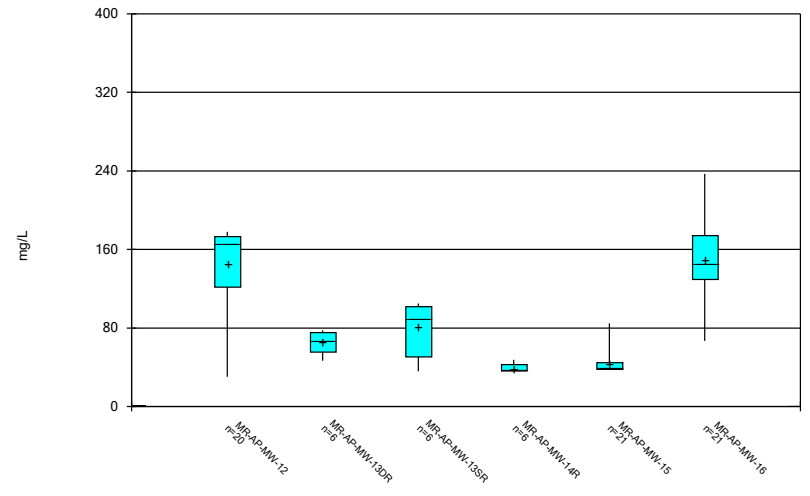
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



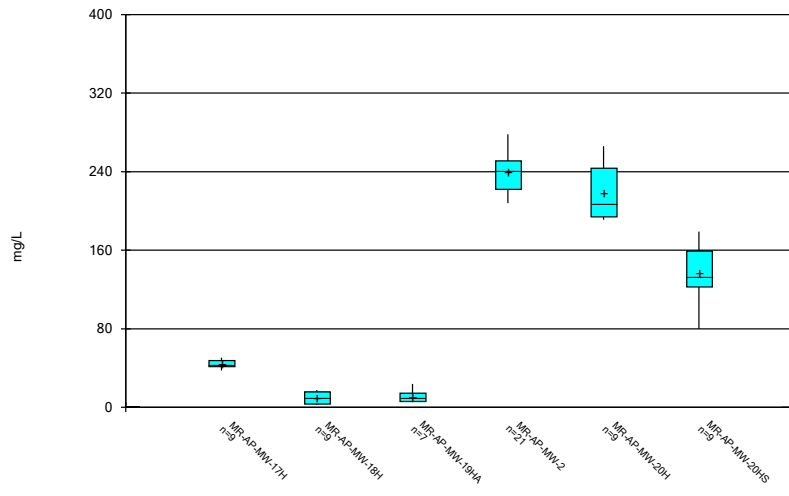
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



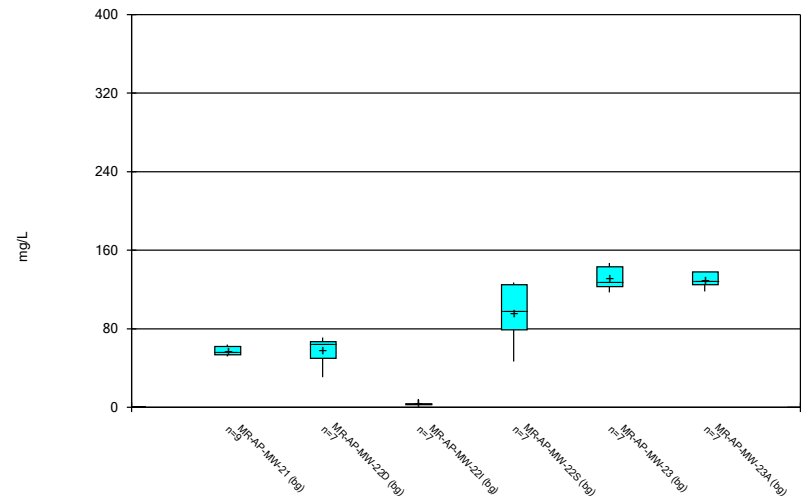
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



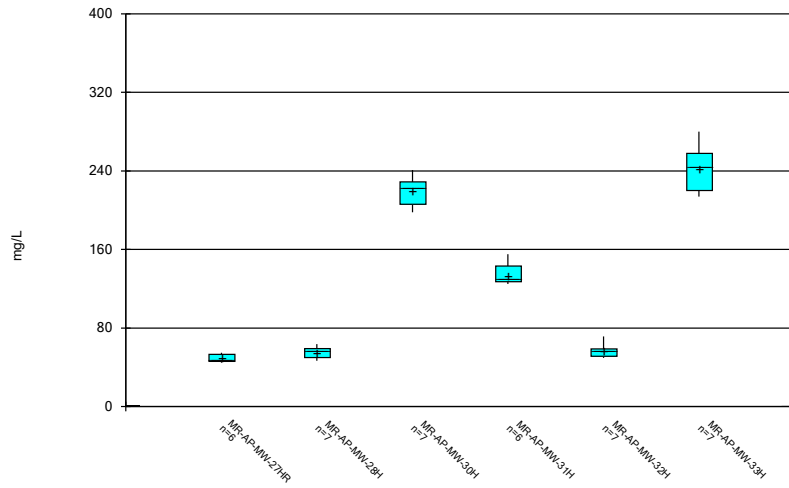
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



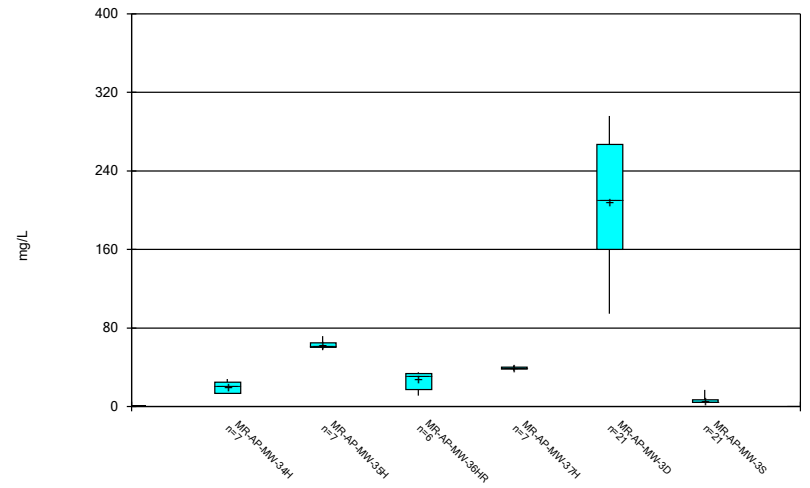
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Box & Whiskers Plot



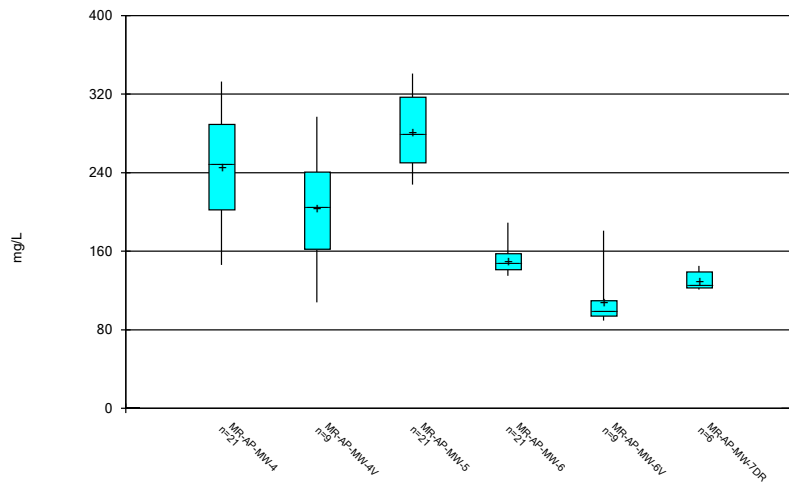
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



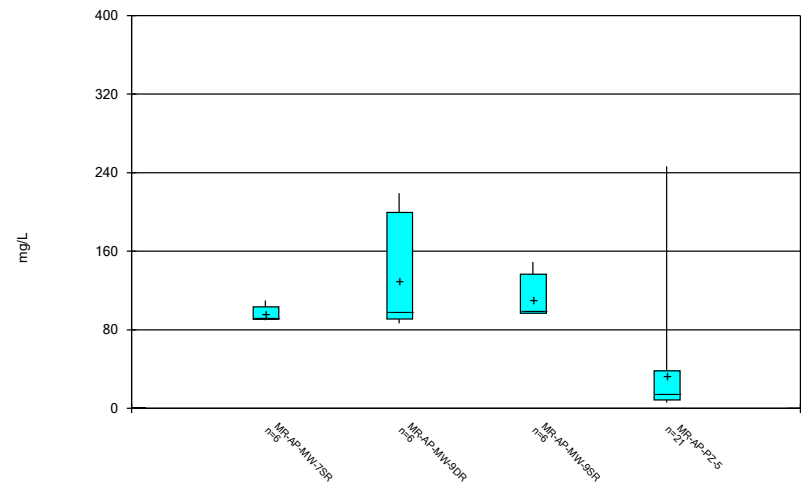
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Box & Whiskers Plot



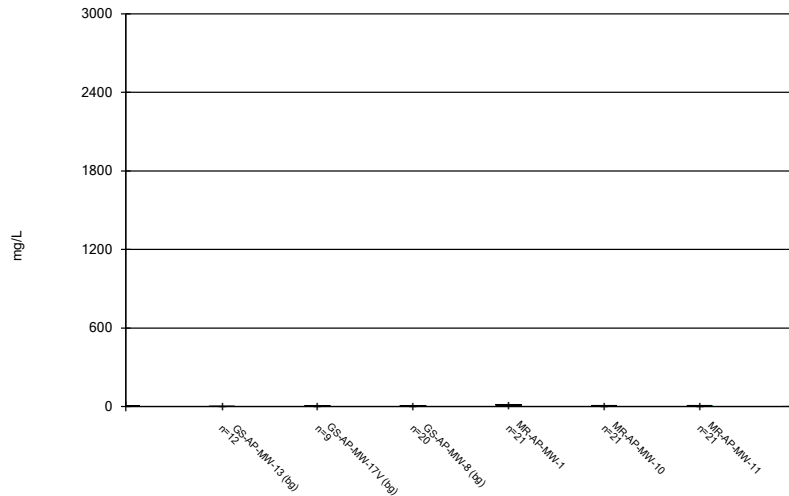
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Box & Whiskers Plot



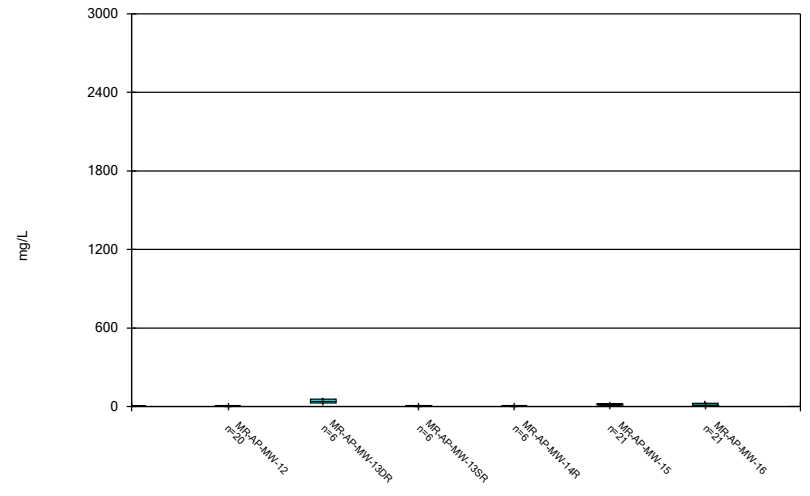
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Box & Whiskers Plot



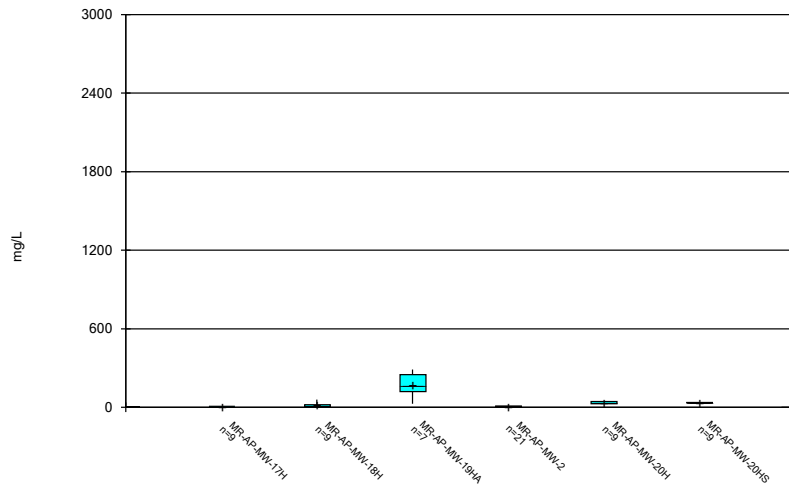
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Box & Whiskers Plot



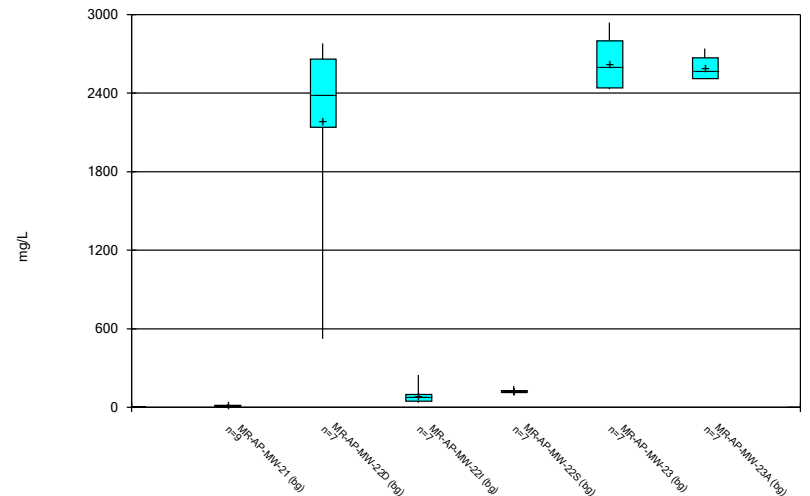
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Box & Whiskers Plot



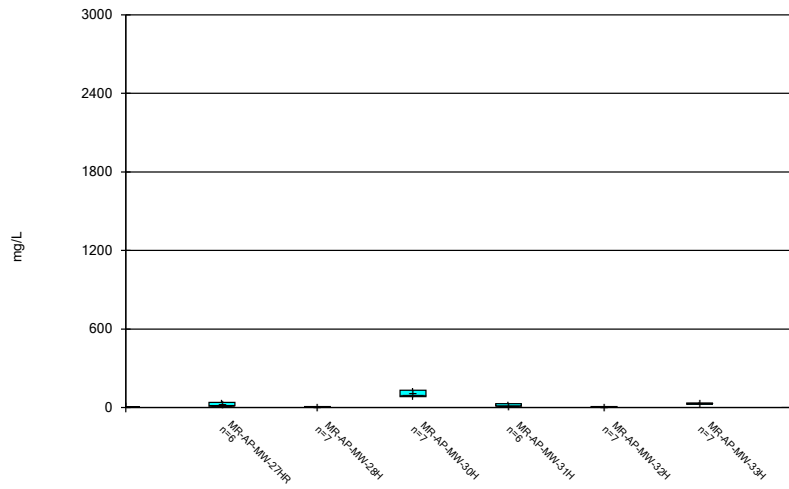
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Box & Whiskers Plot



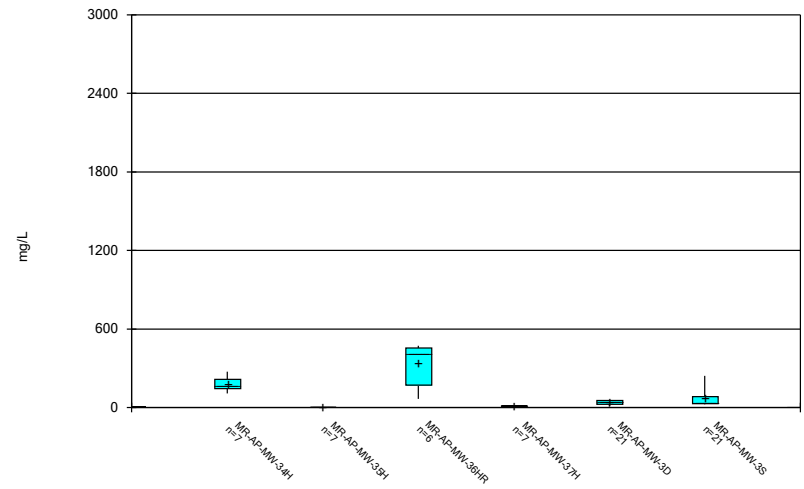
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Box & Whiskers Plot



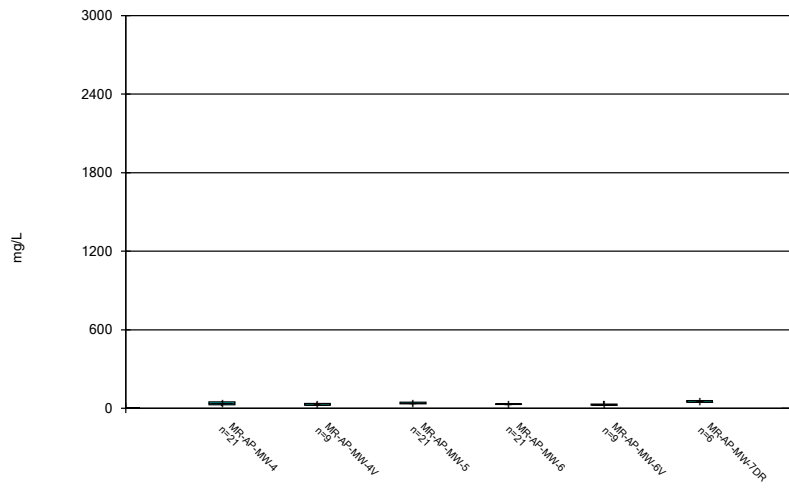
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Box & Whiskers Plot



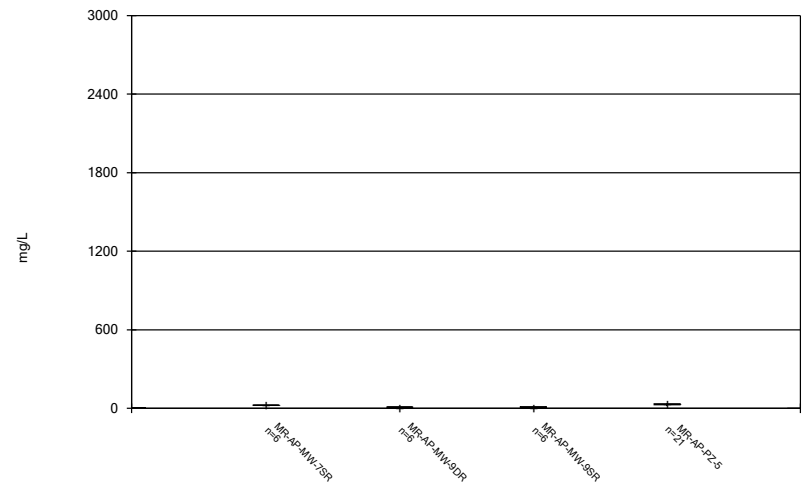
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Box & Whiskers Plot



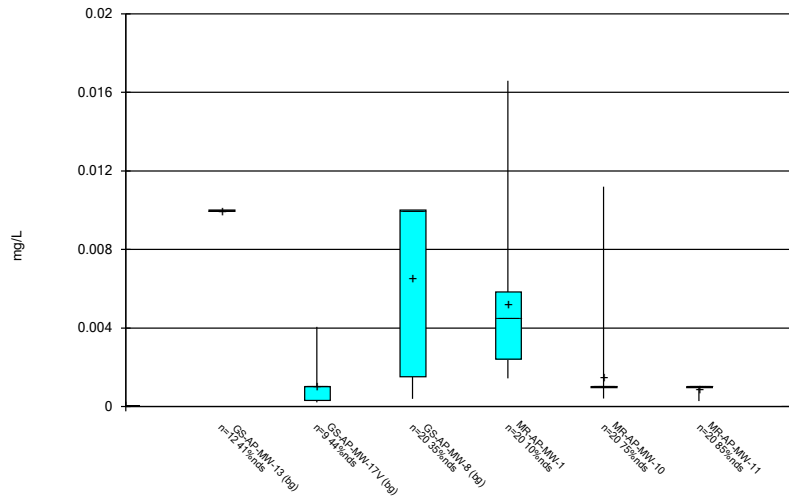
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Box & Whiskers Plot



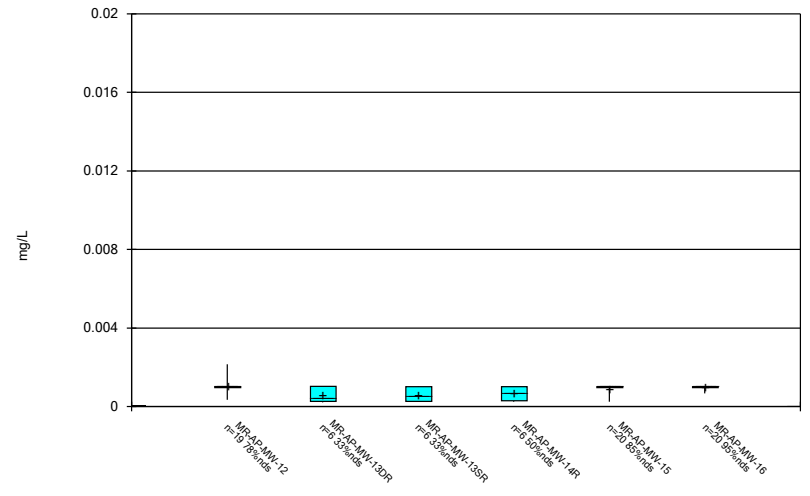
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Box & Whiskers Plot



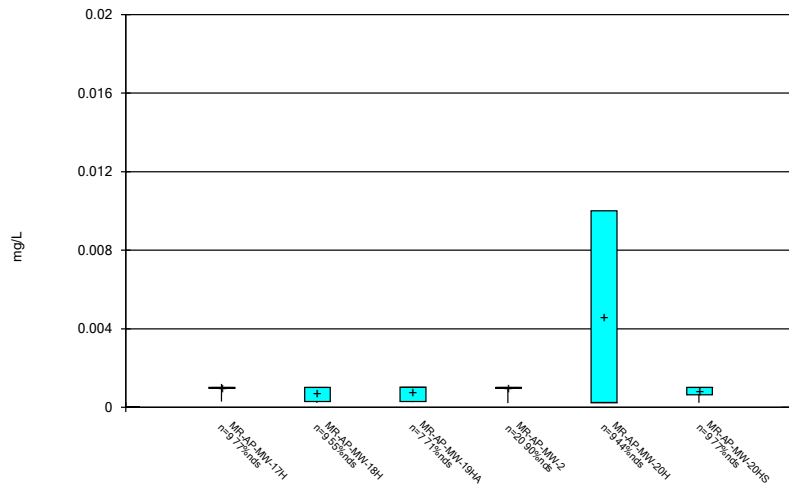
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Box & Whiskers Plot



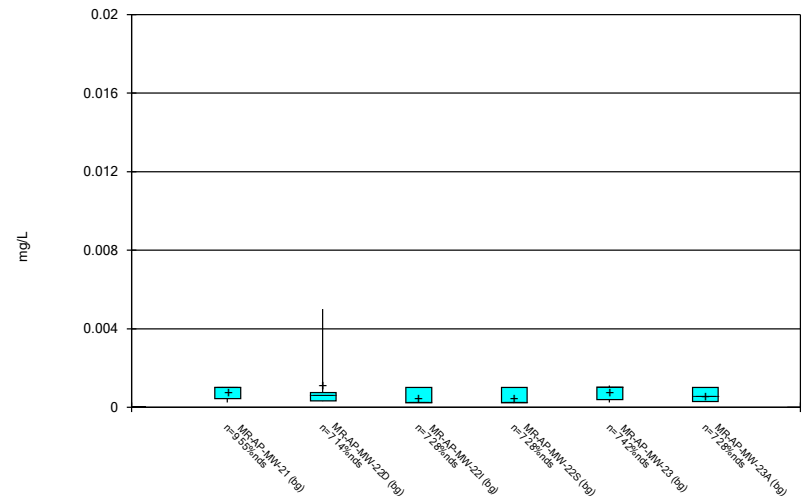
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Box & Whiskers Plot



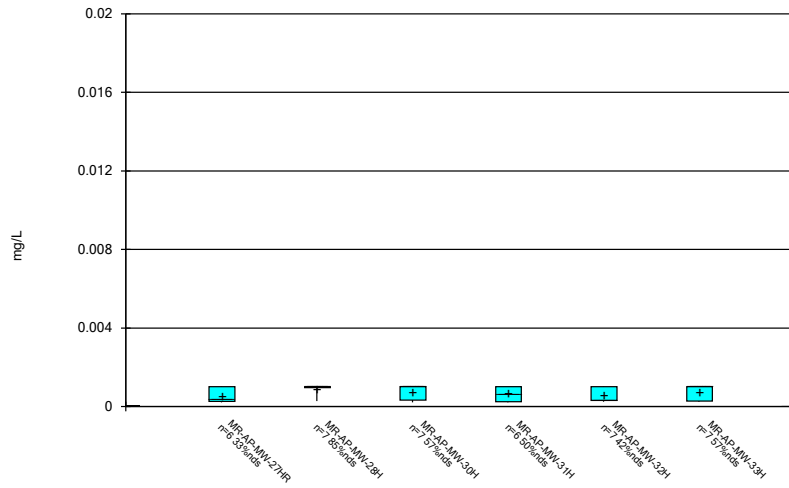
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Box & Whiskers Plot



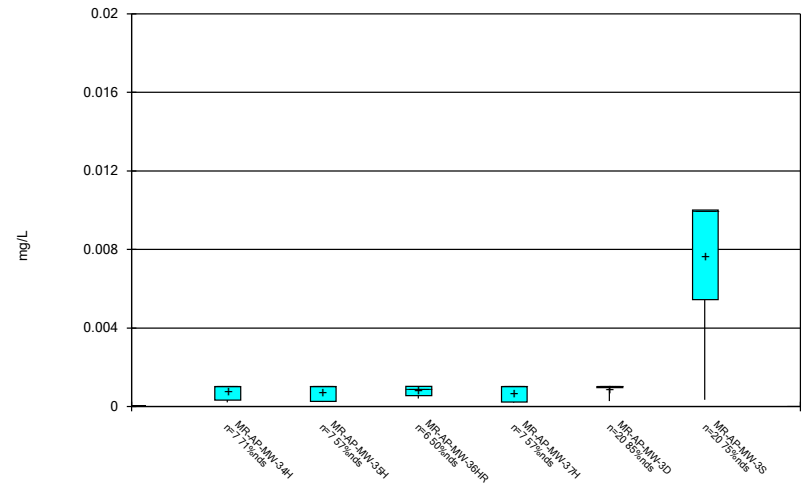
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Box & Whiskers Plot



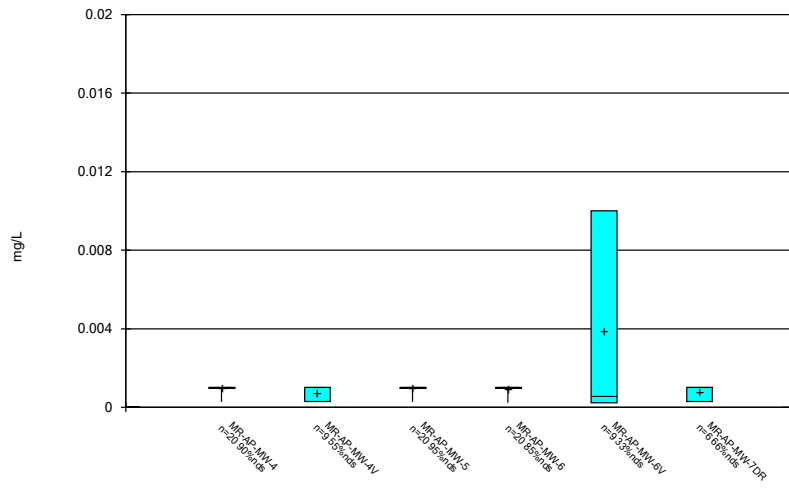
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Box & Whiskers Plot



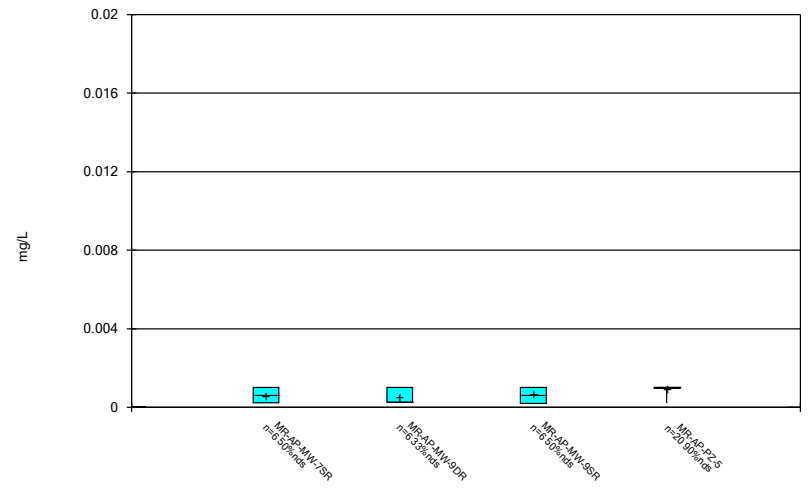
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Box & Whiskers Plot



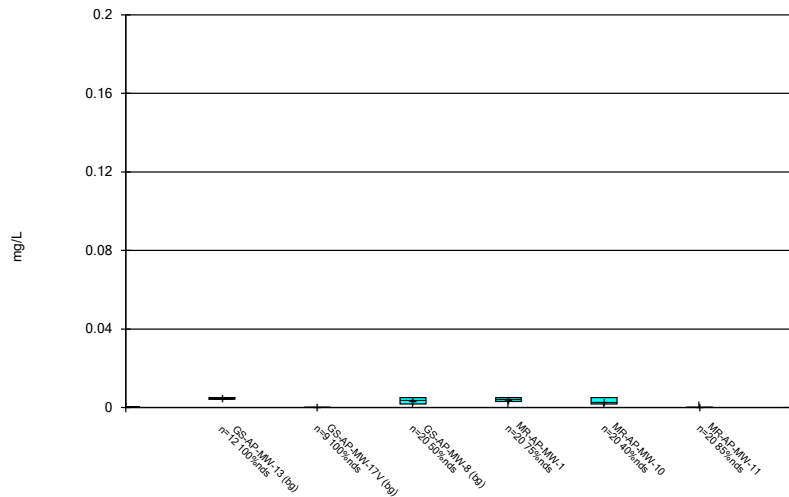
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Box & Whiskers Plot



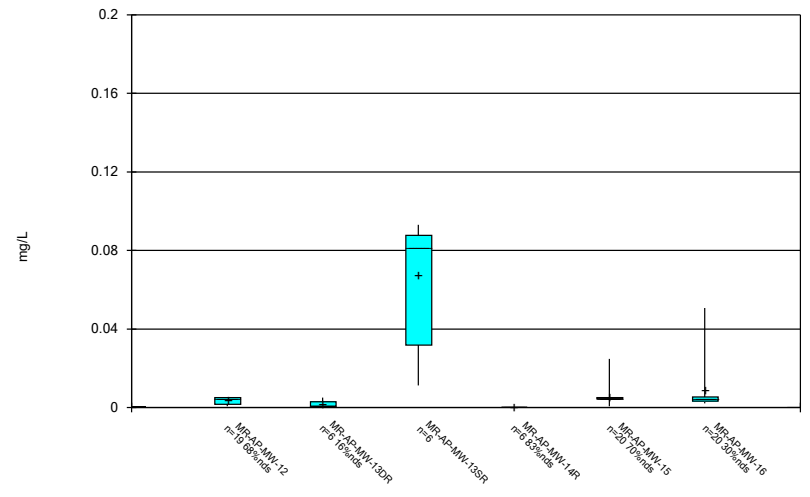
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Box & Whiskers Plot



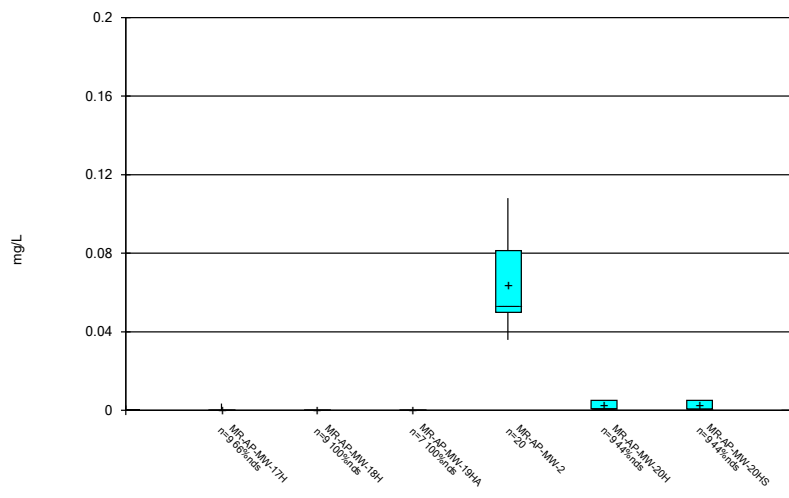
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Box & Whiskers Plot



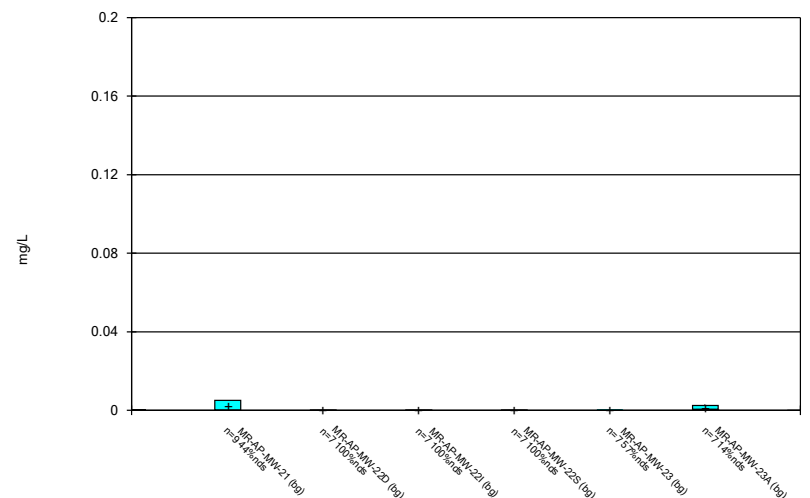
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Box & Whiskers Plot



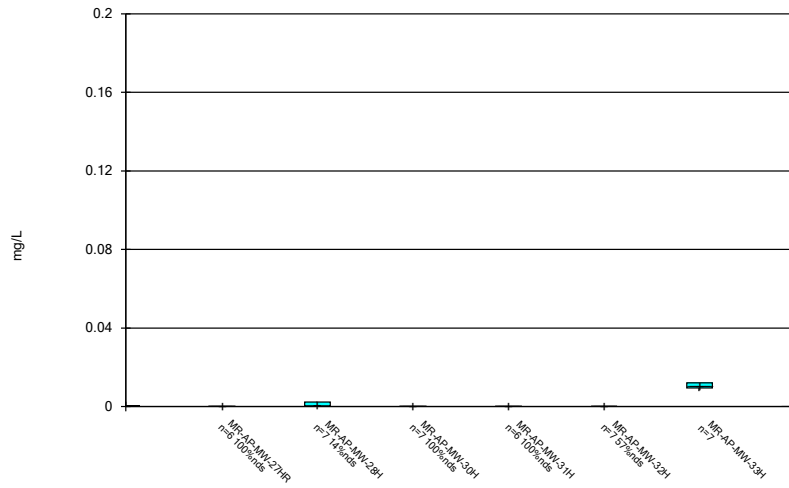
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Box & Whiskers Plot



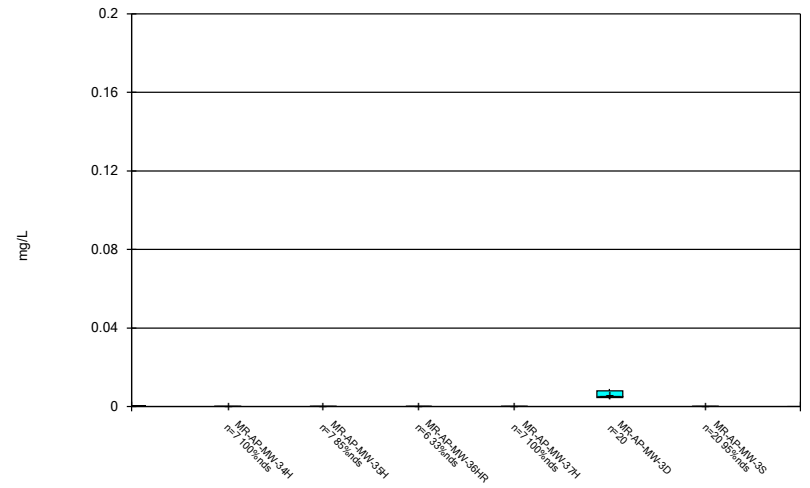
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Box & Whiskers Plot



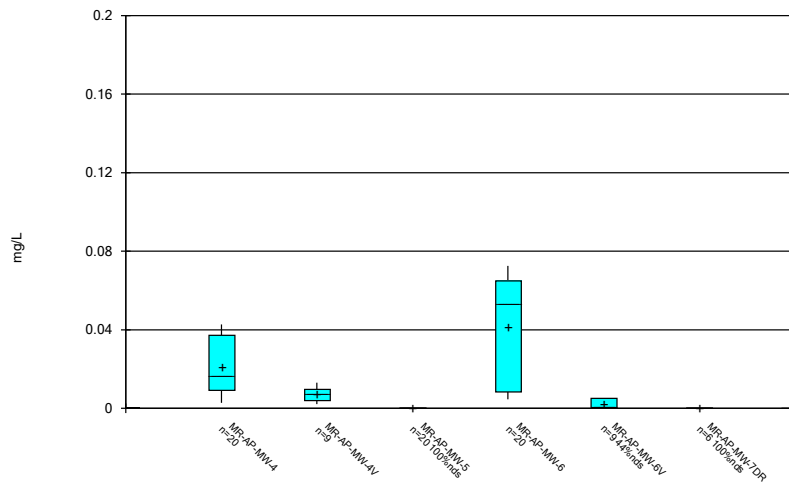
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Box & Whiskers Plot



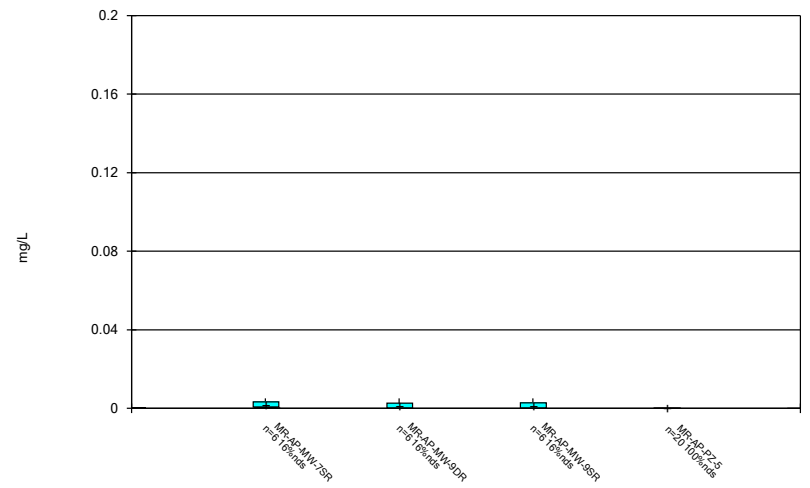
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Box & Whiskers Plot



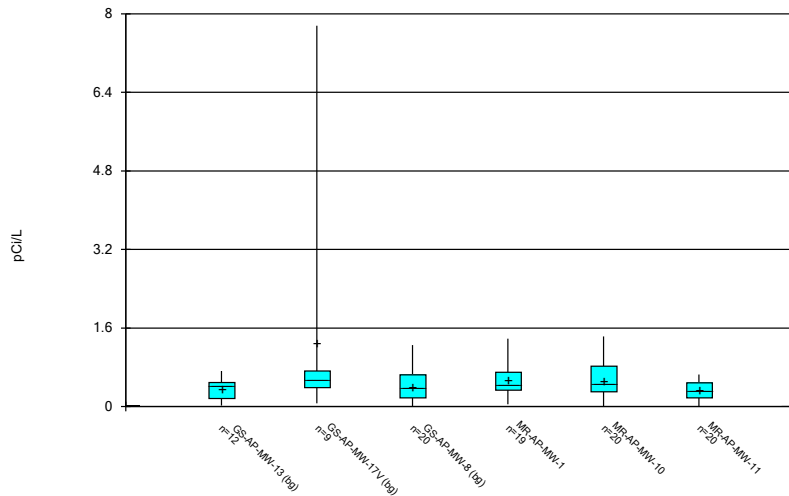
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Box & Whiskers Plot



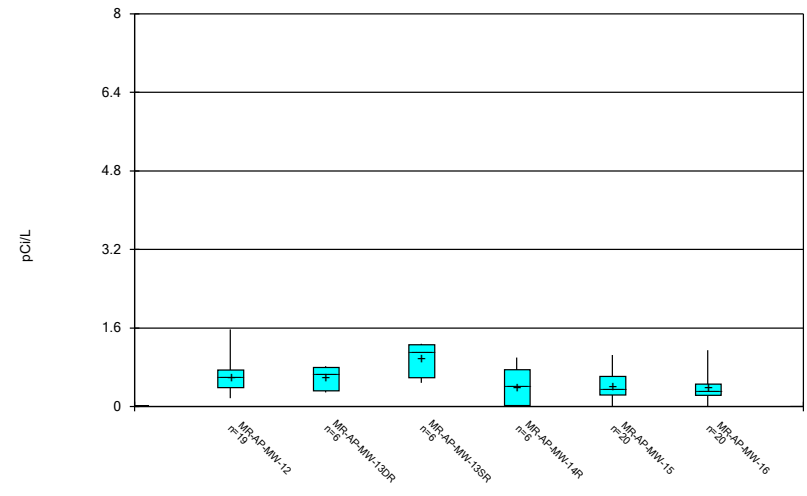
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Box & Whiskers Plot



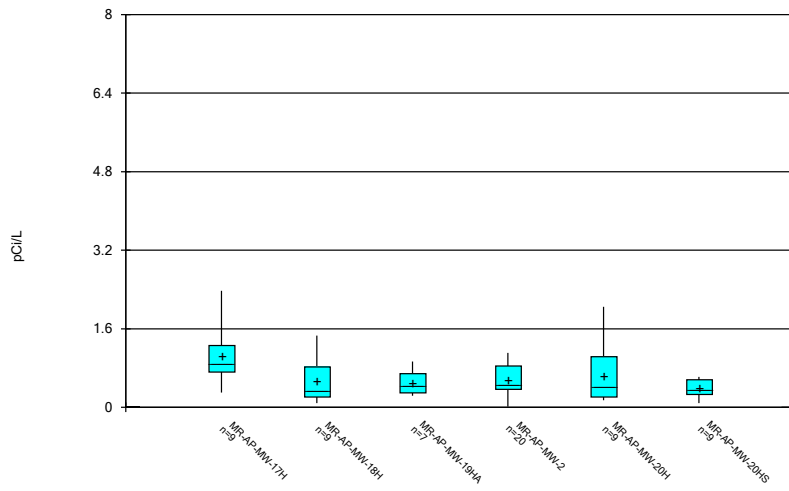
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Box & Whiskers Plot



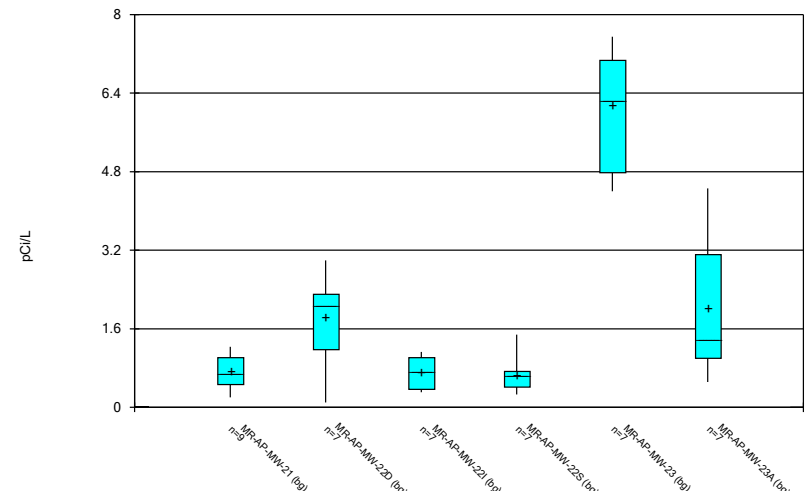
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Box & Whiskers Plot



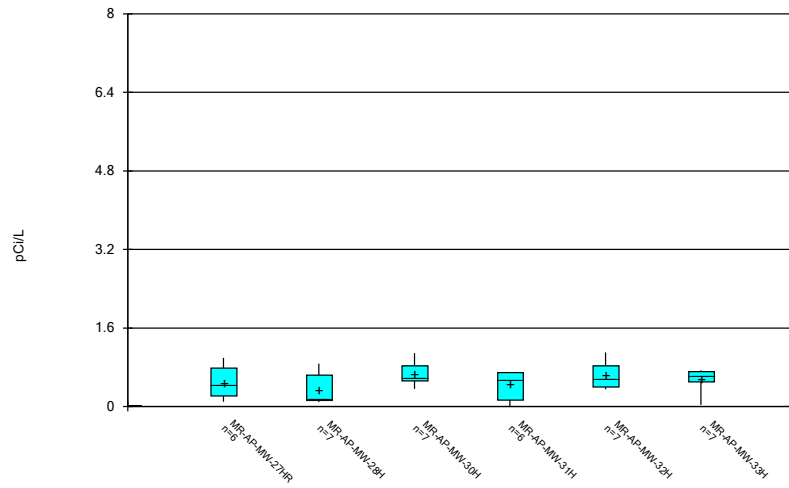
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Box & Whiskers Plot



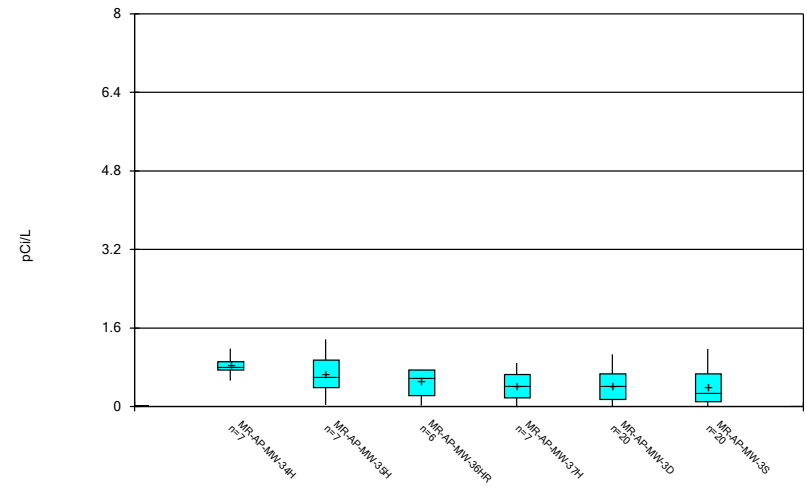
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Box & Whiskers Plot



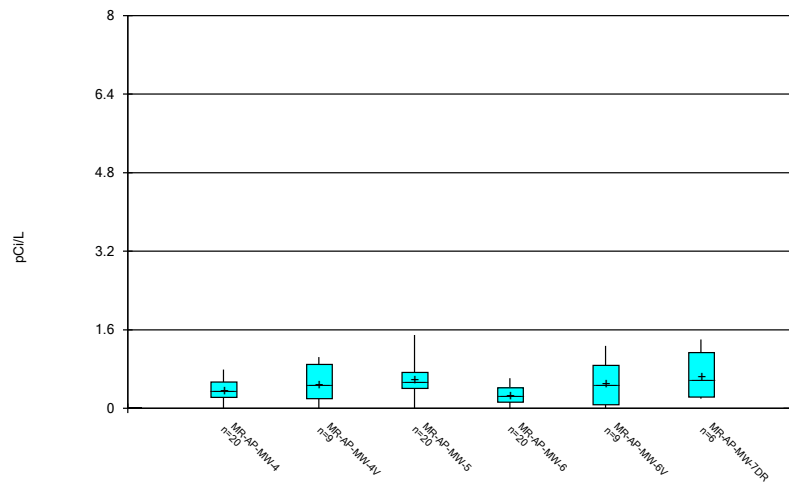
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Box & Whiskers Plot



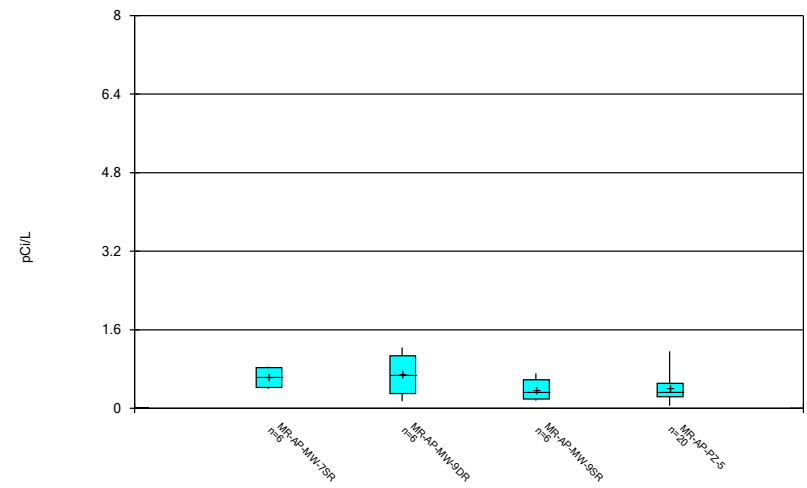
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Box & Whiskers Plot



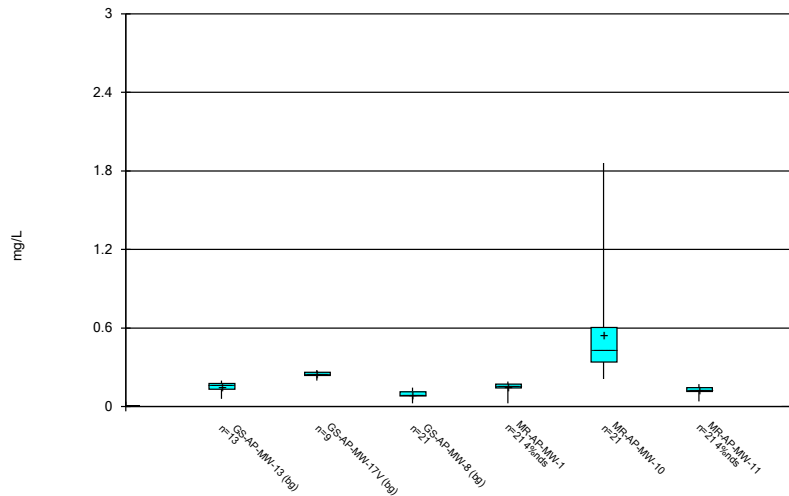
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Box & Whiskers Plot



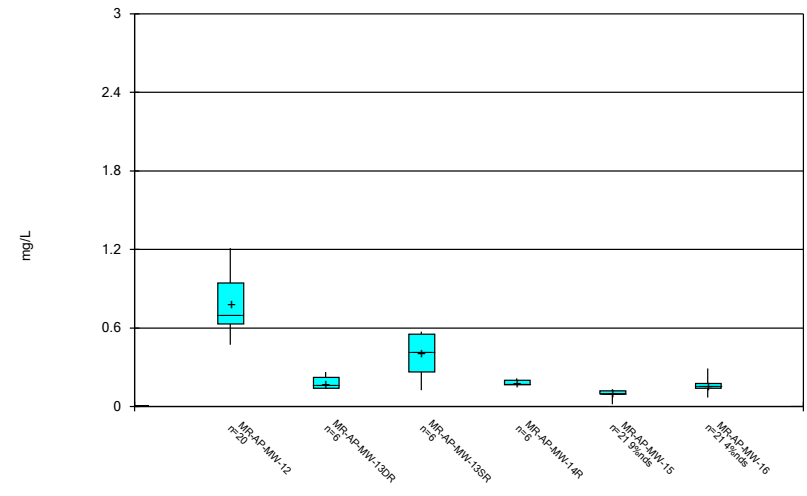
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Box & Whiskers Plot



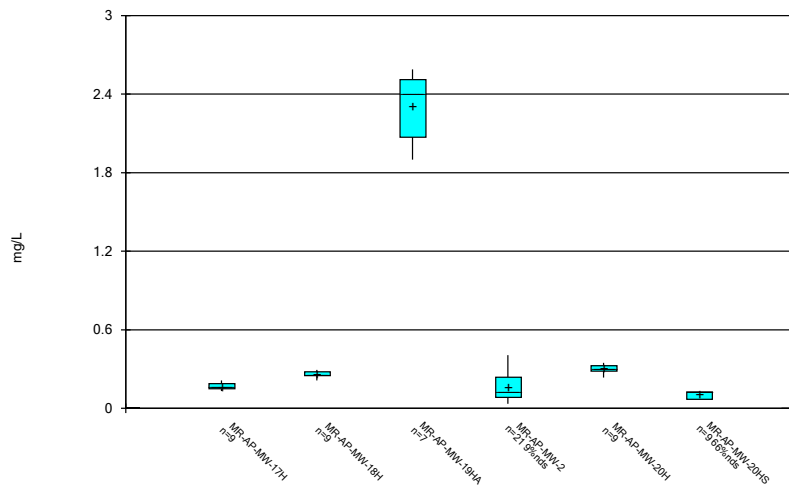
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Box & Whiskers Plot



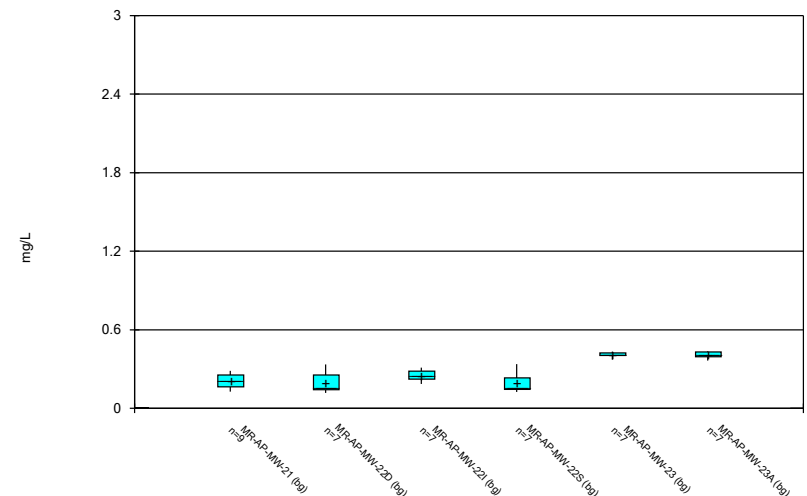
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Box & Whiskers Plot



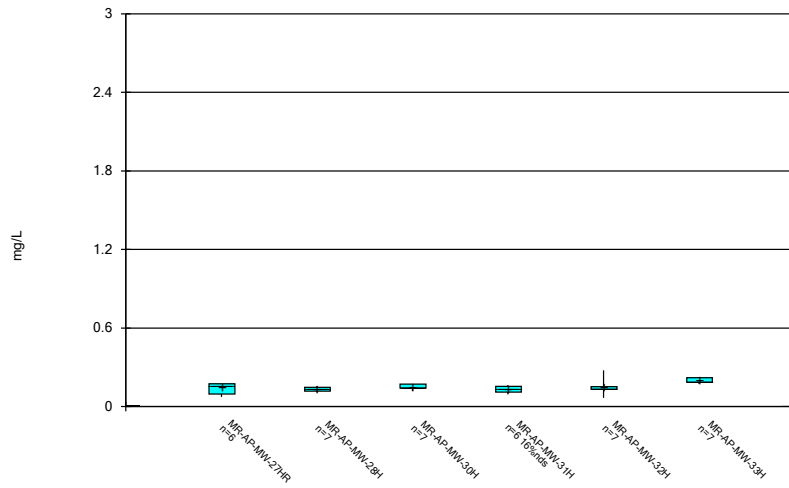
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Box & Whiskers Plot



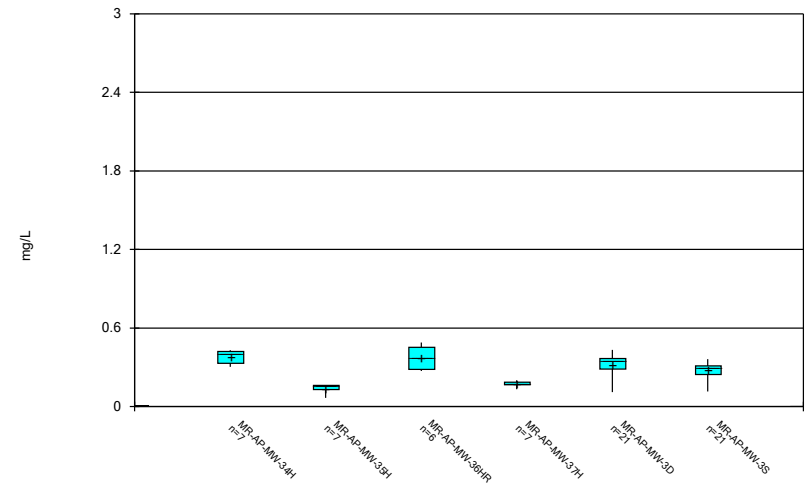
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Box & Whiskers Plot



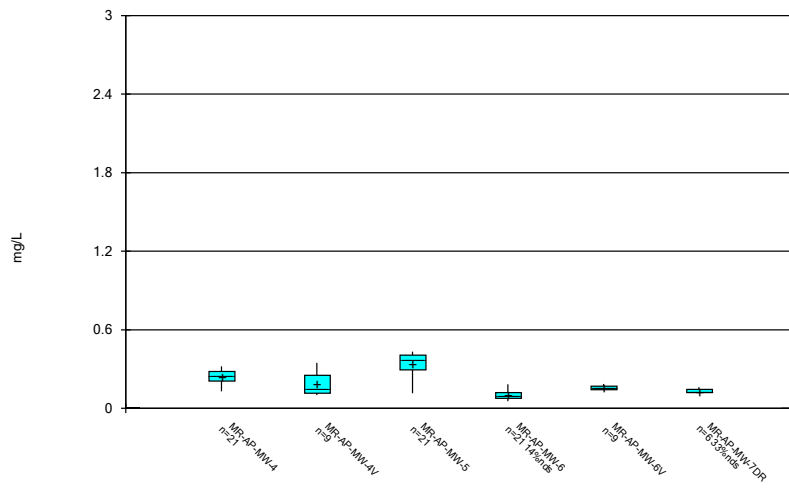
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Box & Whiskers Plot



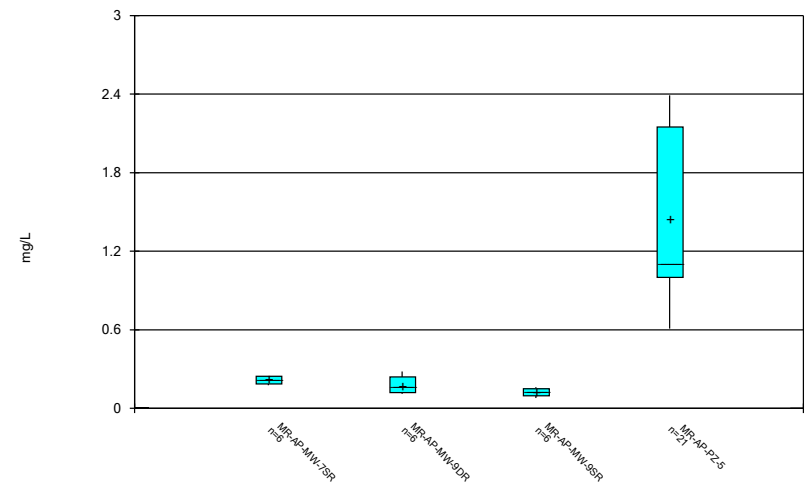
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Box & Whiskers Plot



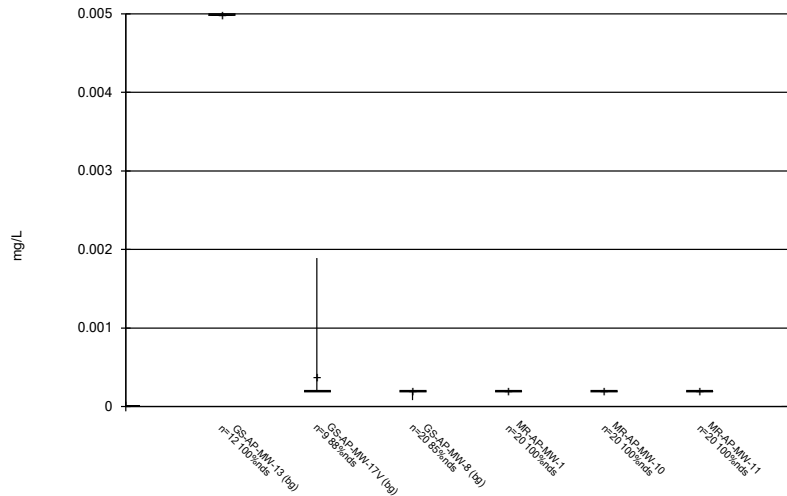
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Box & Whiskers Plot



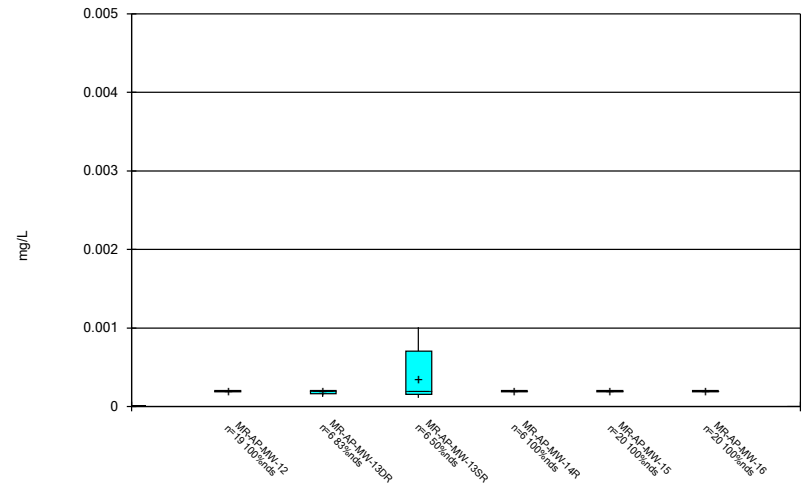
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Box & Whiskers Plot



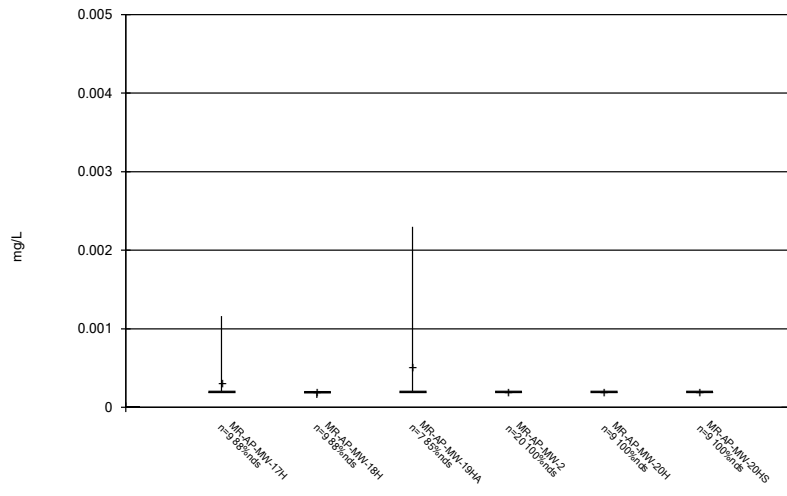
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Box & Whiskers Plot



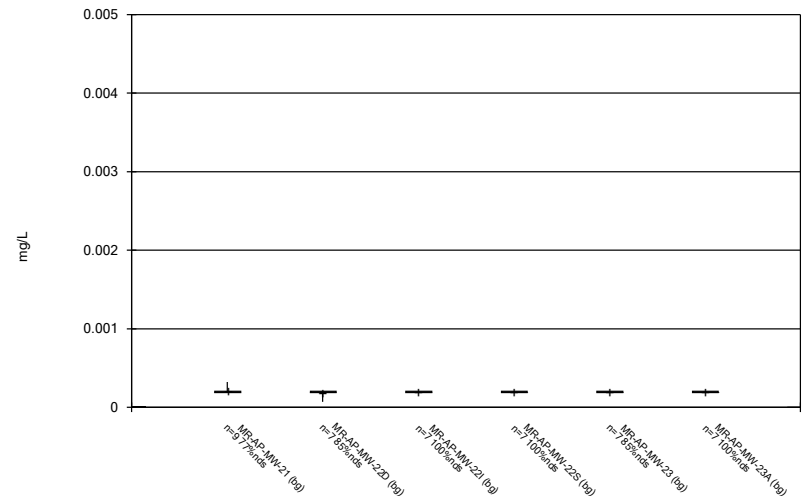
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Box & Whiskers Plot



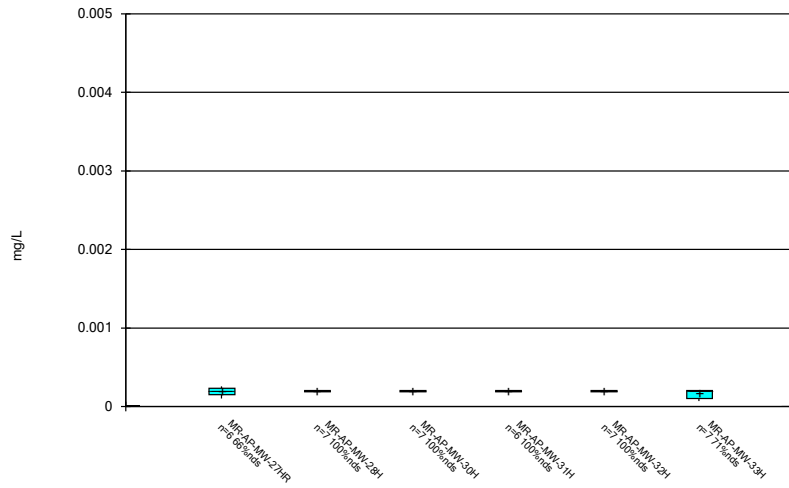
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Box & Whiskers Plot



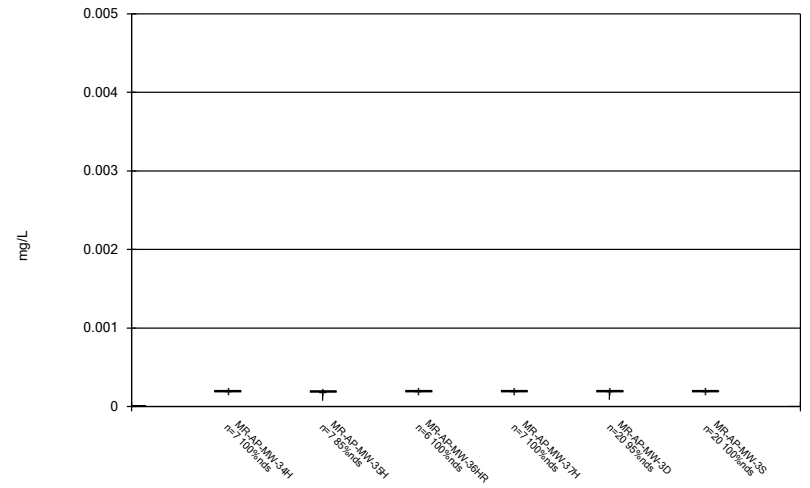
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Box & Whiskers Plot



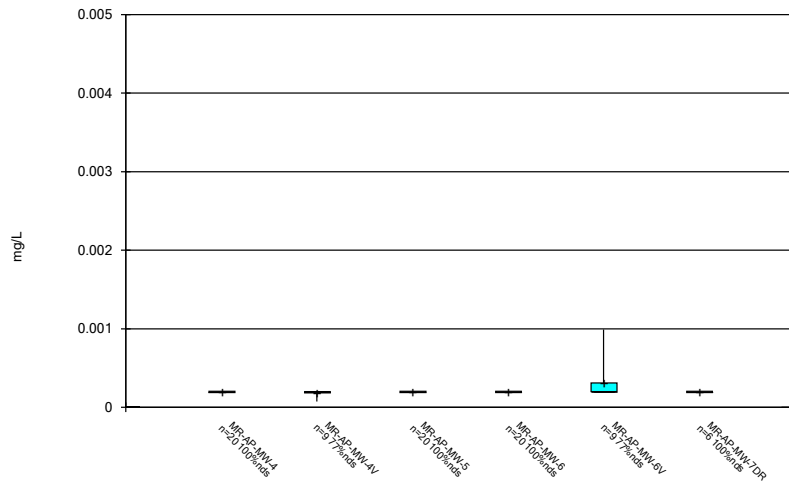
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Box & Whiskers Plot



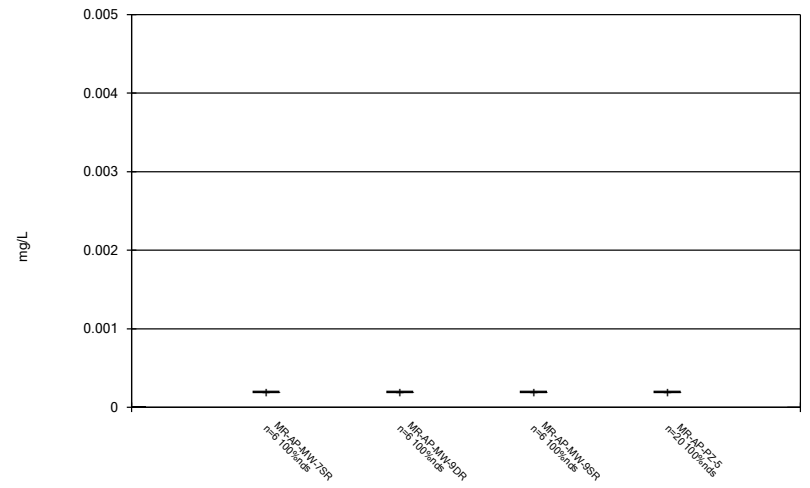
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Box & Whiskers Plot



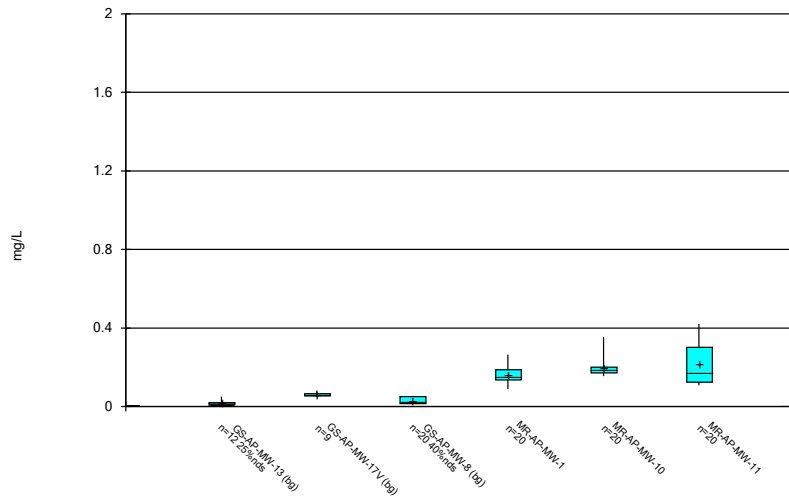
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Box & Whiskers Plot



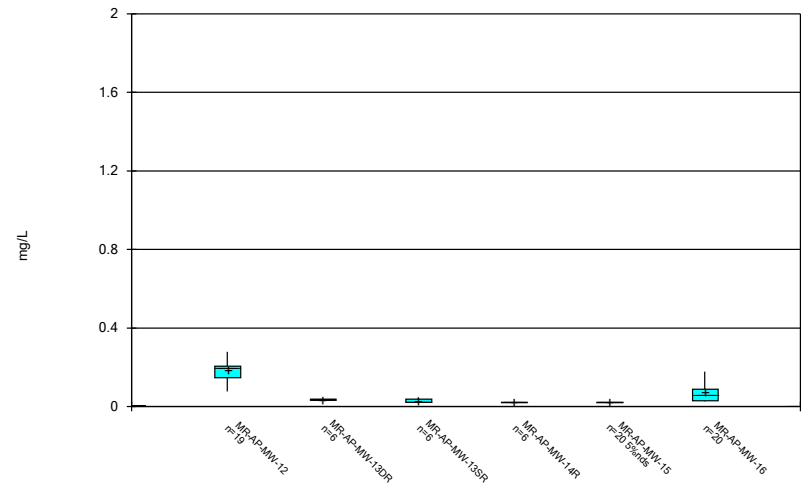
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Box & Whiskers Plot



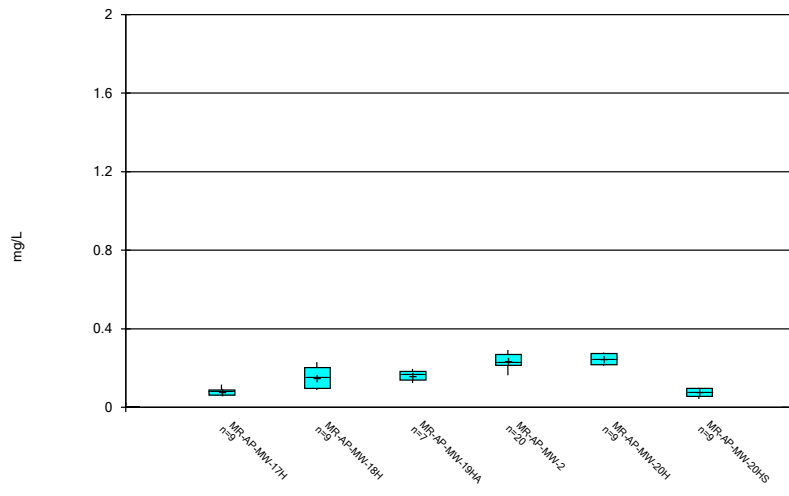
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Box & Whiskers Plot



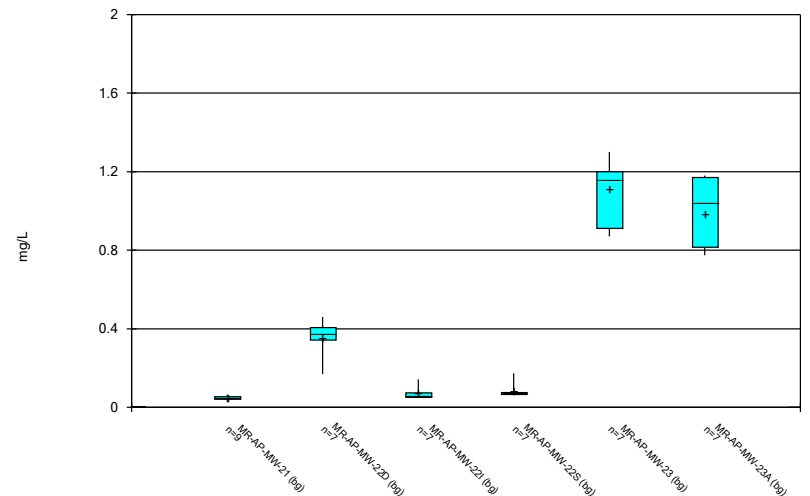
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Box & Whiskers Plot



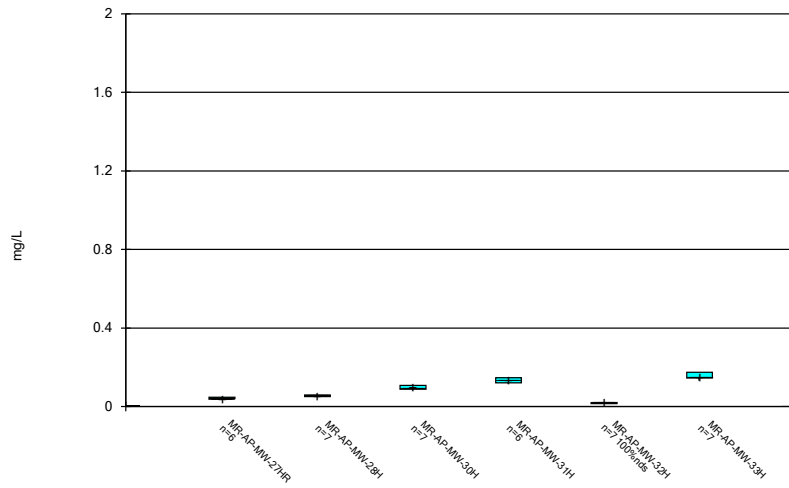
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Box & Whiskers Plot



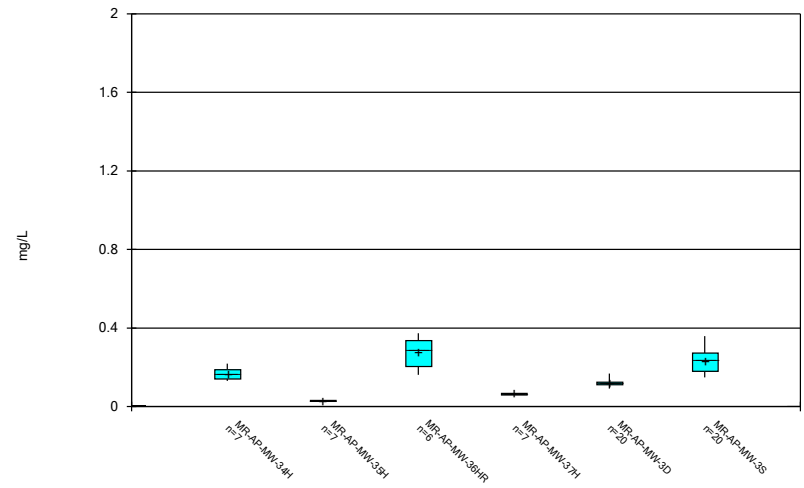
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Box & Whiskers Plot



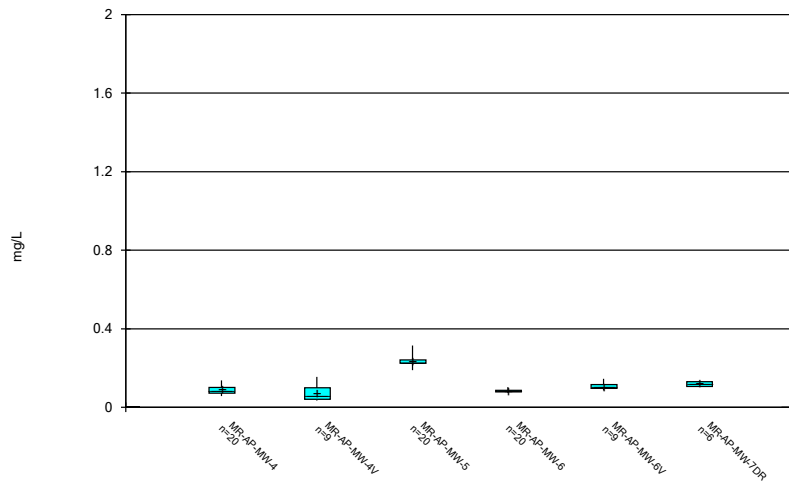
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Box & Whiskers Plot



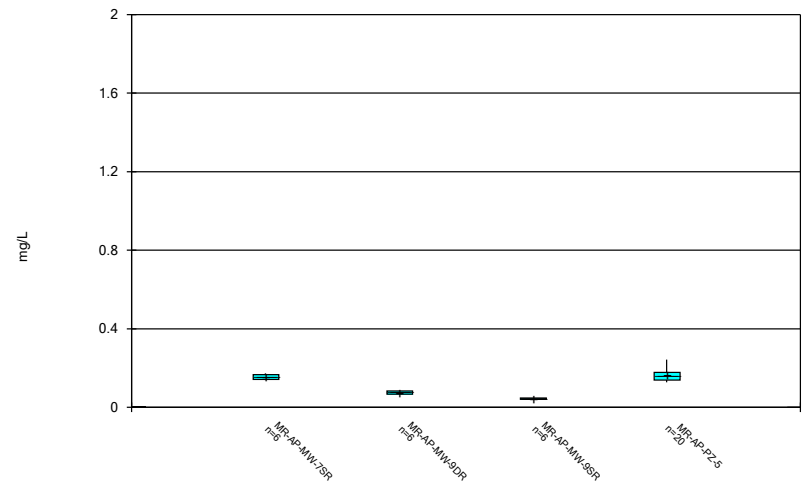
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Box & Whiskers Plot



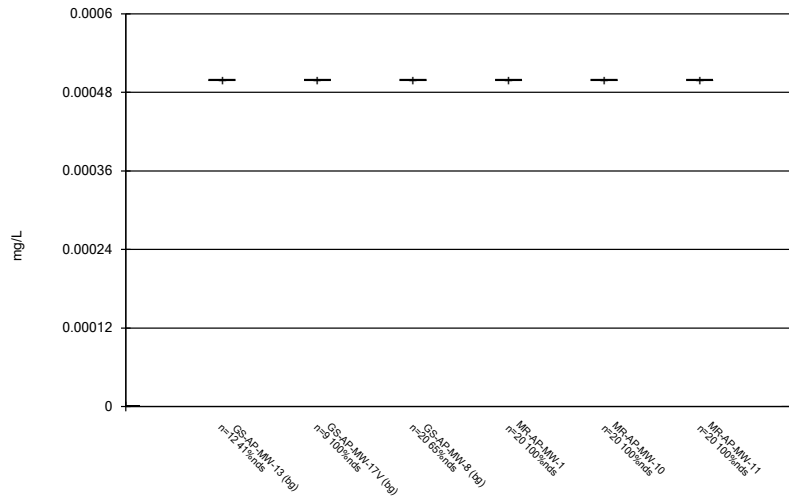
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Box & Whiskers Plot



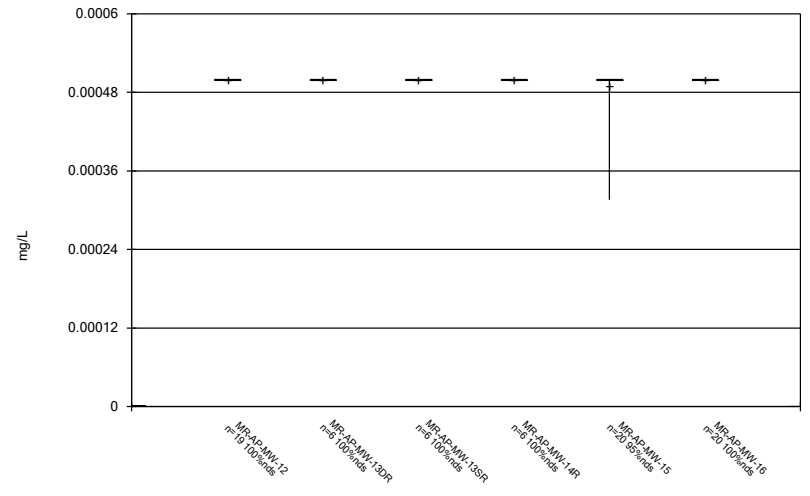
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Box & Whiskers Plot



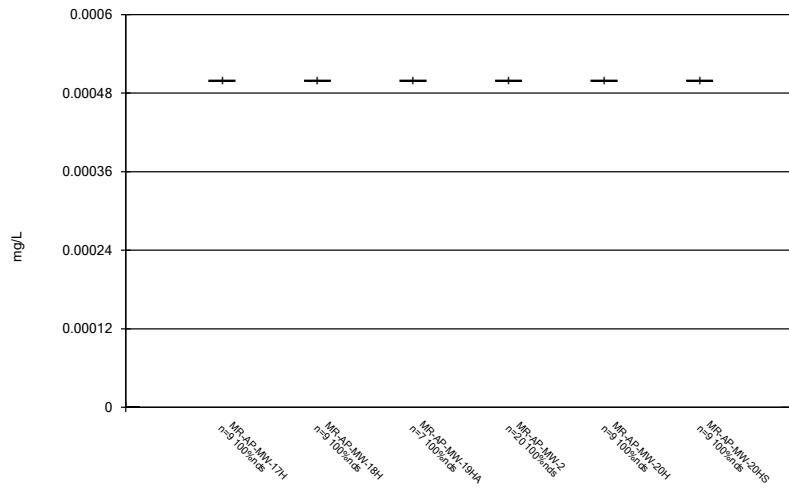
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Box & Whiskers Plot



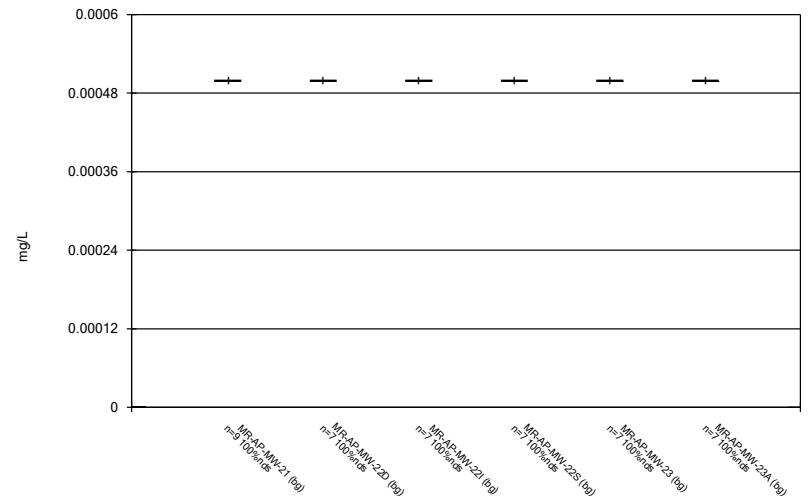
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



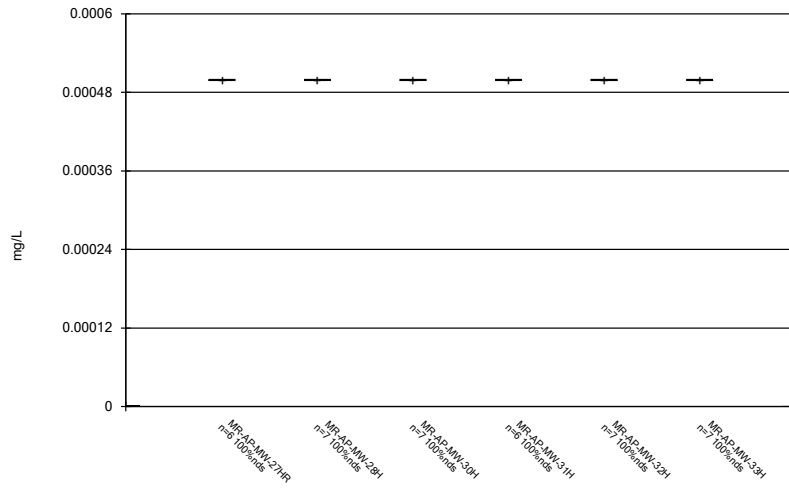
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



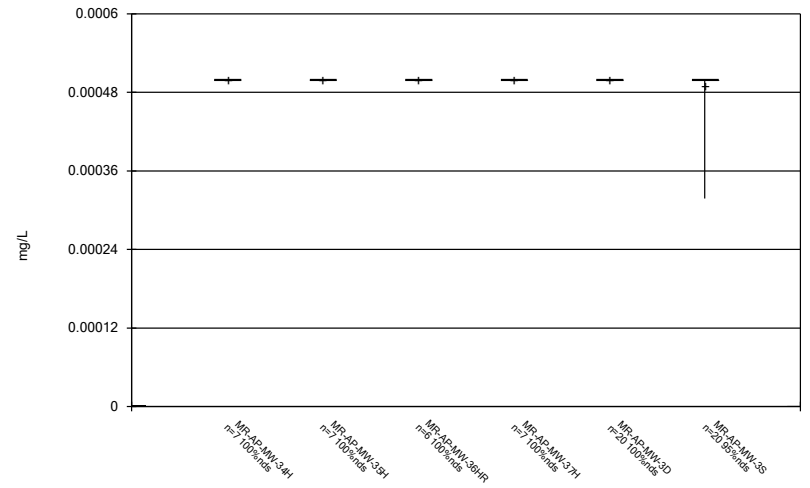
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Box & Whiskers Plot



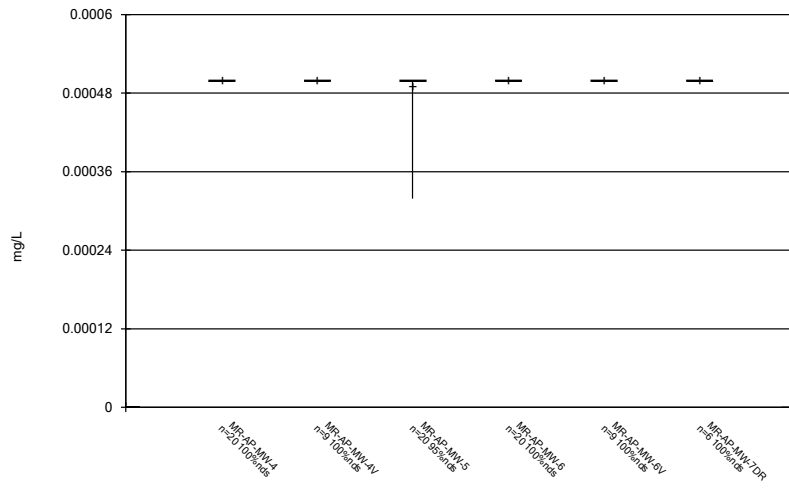
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



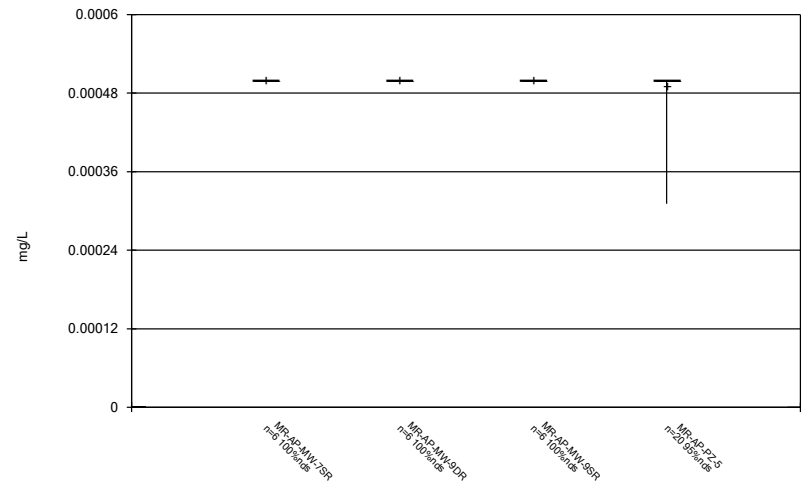
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



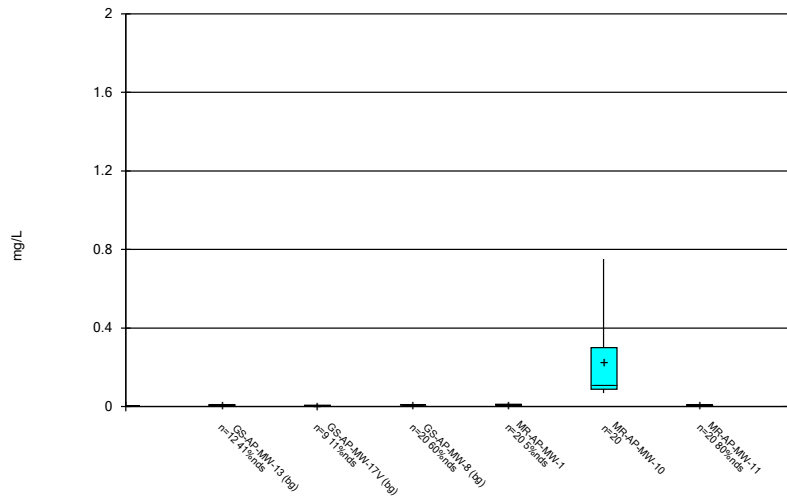
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Box & Whiskers Plot



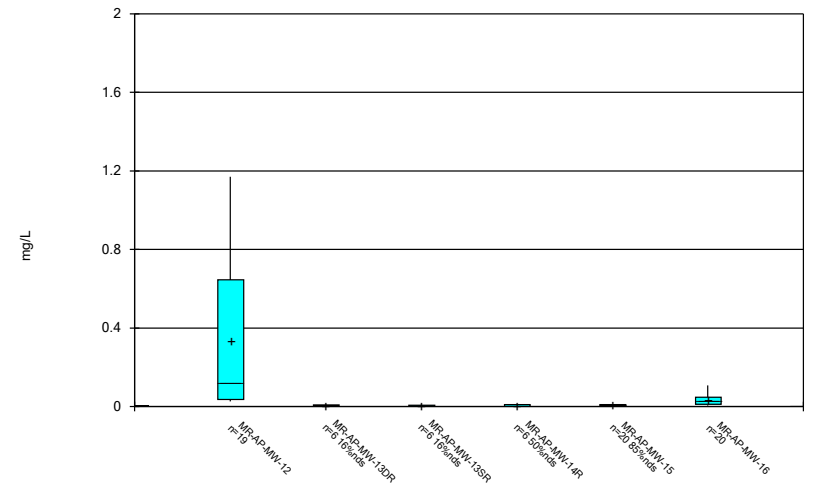
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Box & Whiskers Plot



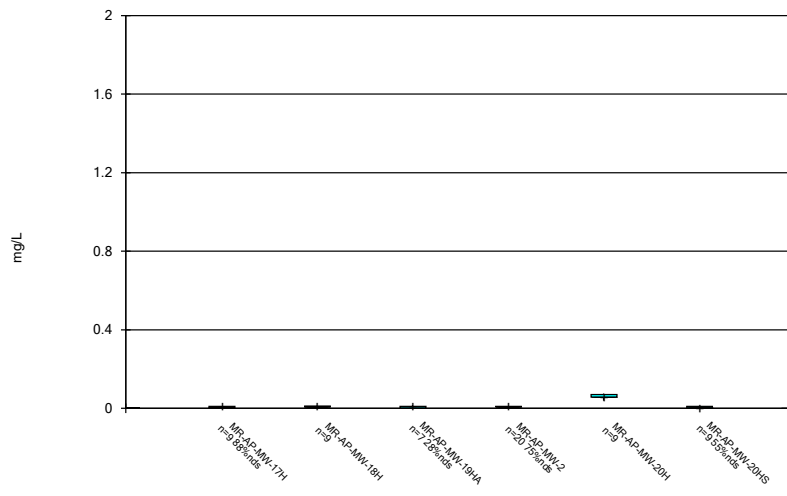
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Box & Whiskers Plot



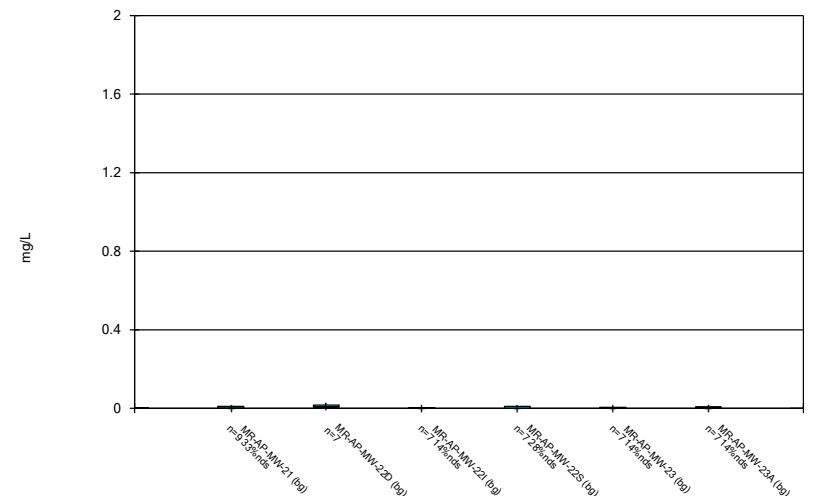
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Box & Whiskers Plot



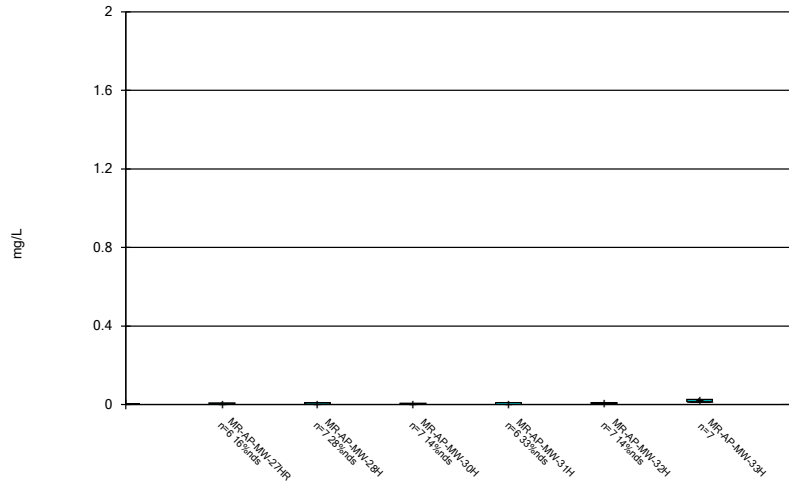
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Box & Whiskers Plot



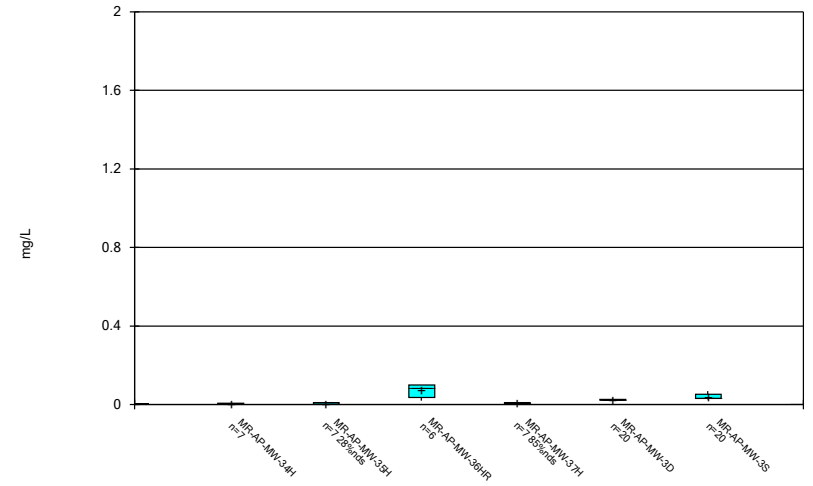
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Box & Whiskers Plot



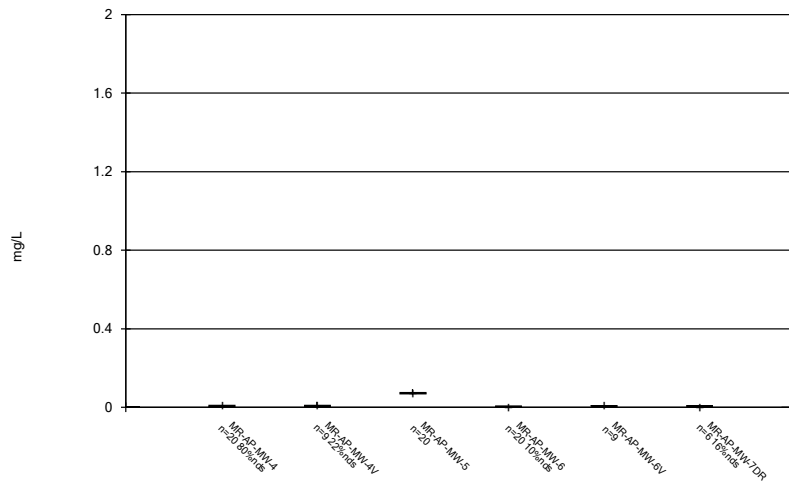
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Box & Whiskers Plot



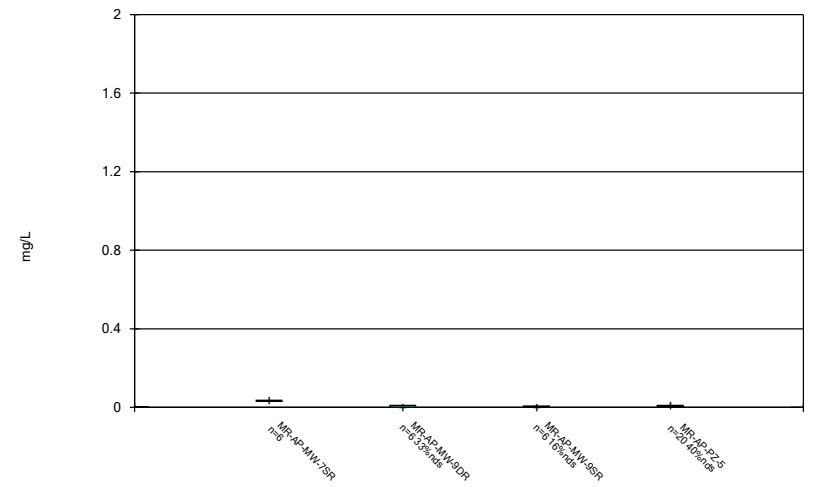
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Box & Whiskers Plot



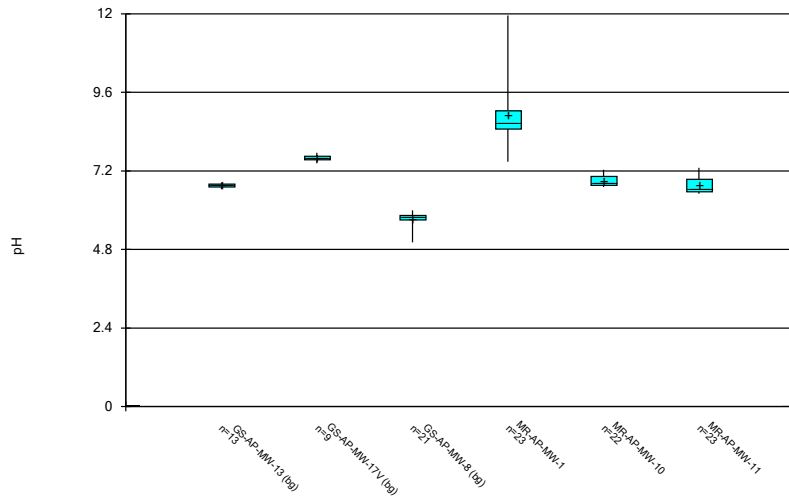
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Box & Whiskers Plot



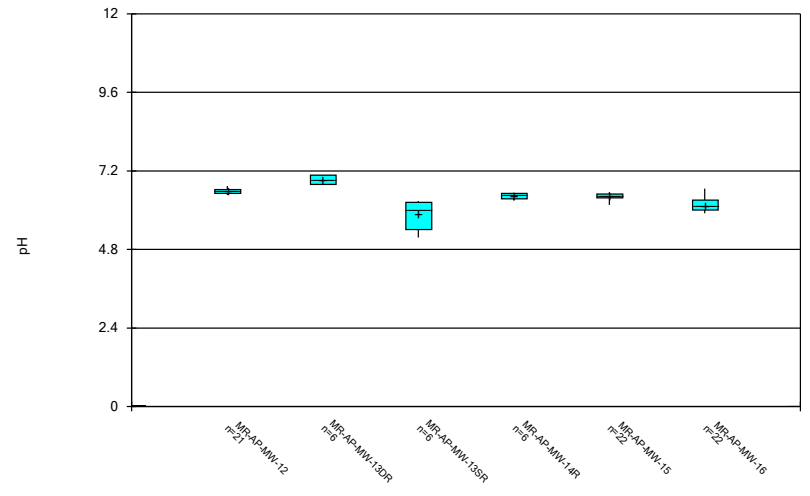
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Box & Whiskers Plot



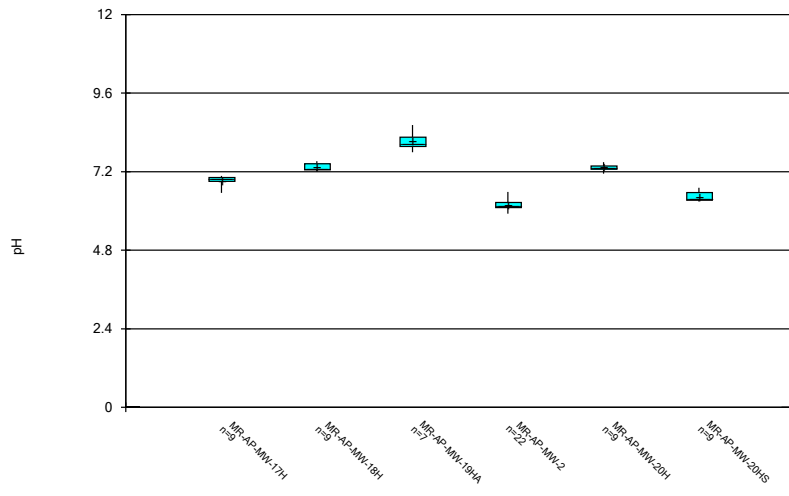
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Box & Whiskers Plot



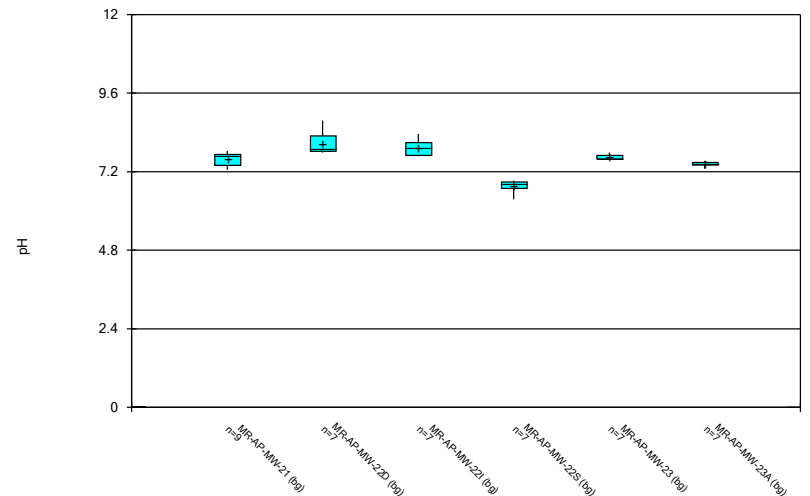
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Box & Whiskers Plot



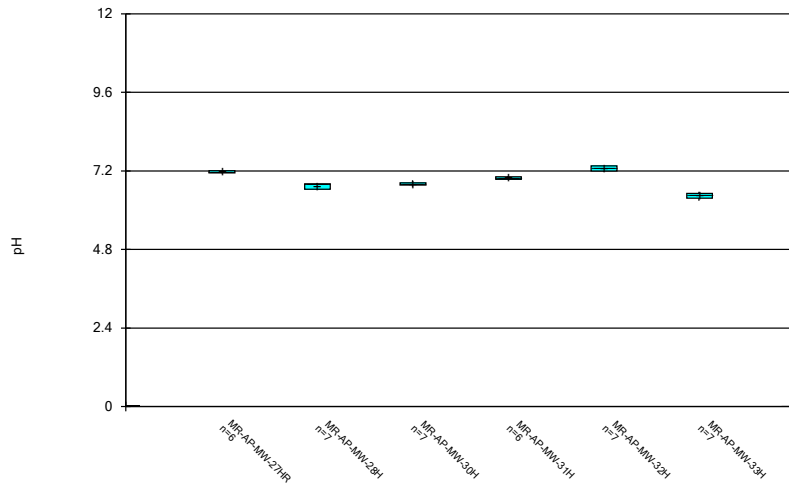
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Box & Whiskers Plot



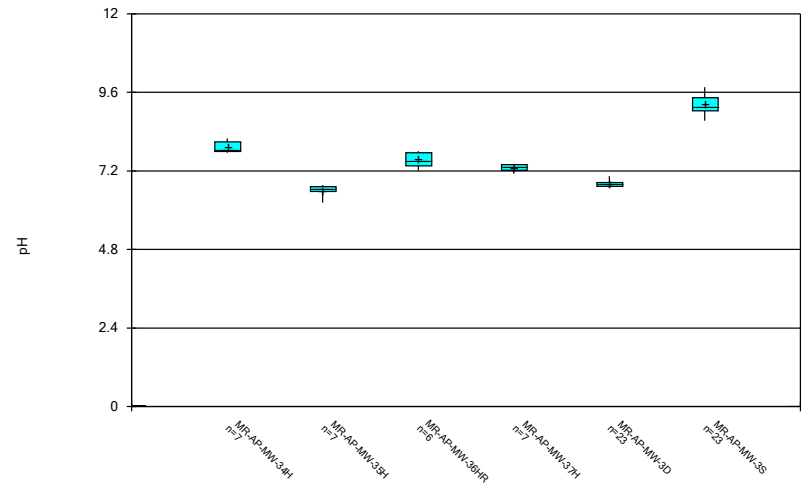
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Box & Whiskers Plot



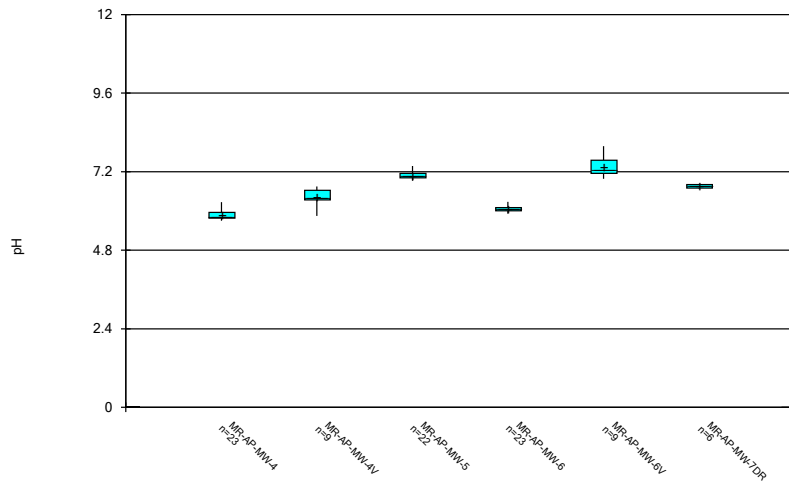
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Box & Whiskers Plot



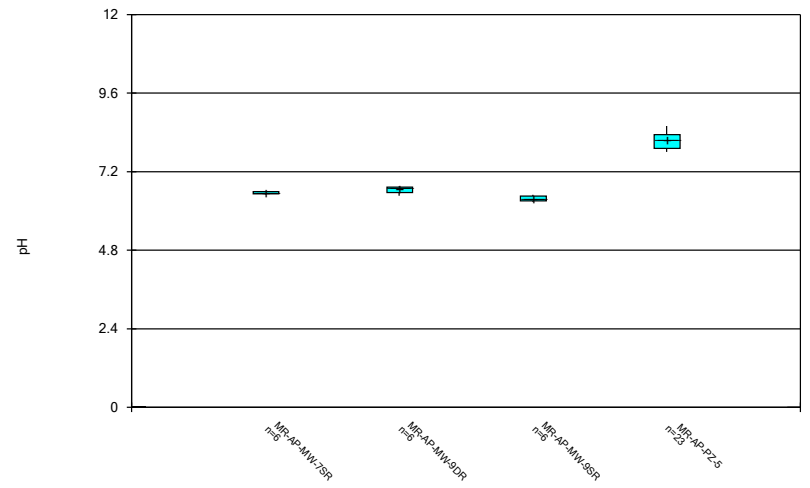
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Box & Whiskers Plot



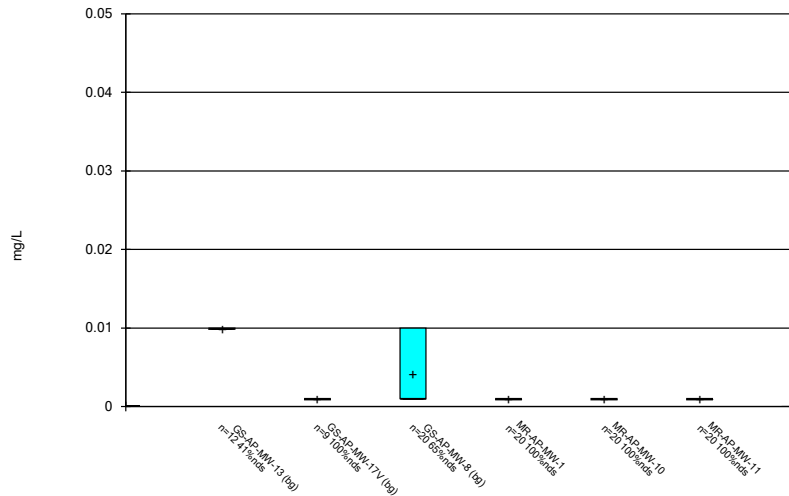
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Box & Whiskers Plot



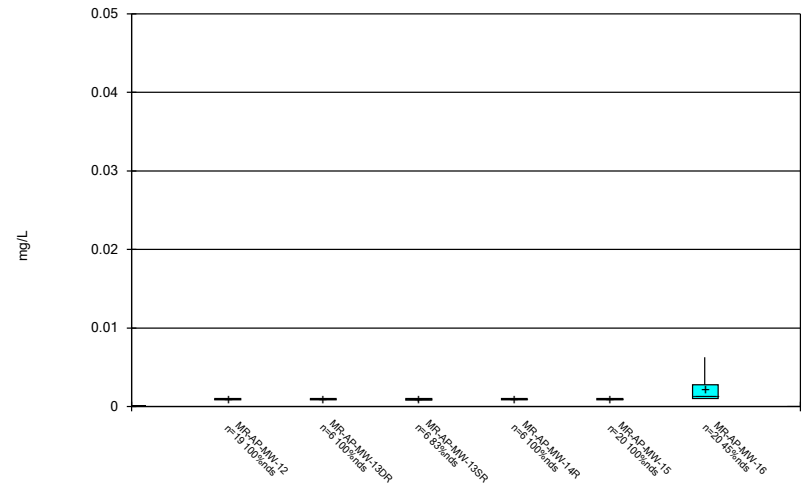
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Box & Whiskers Plot



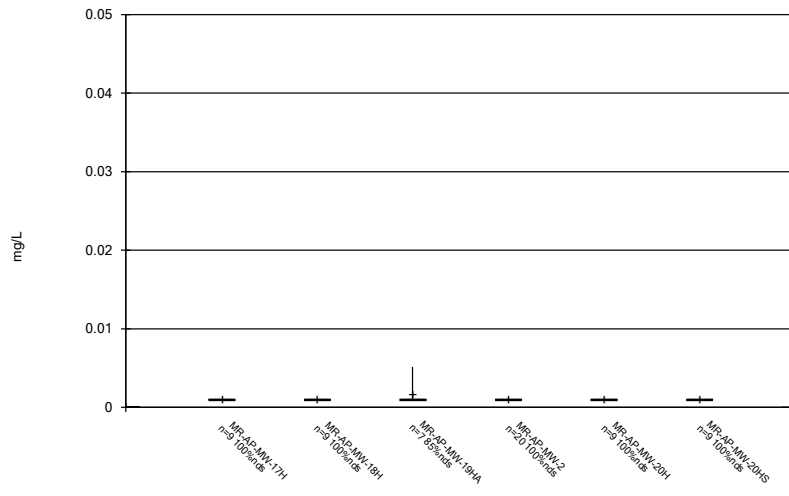
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Box & Whiskers Plot



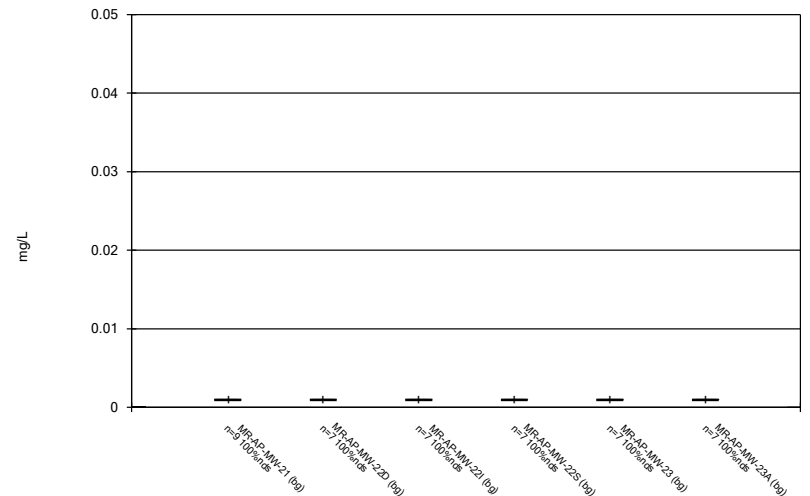
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Box & Whiskers Plot



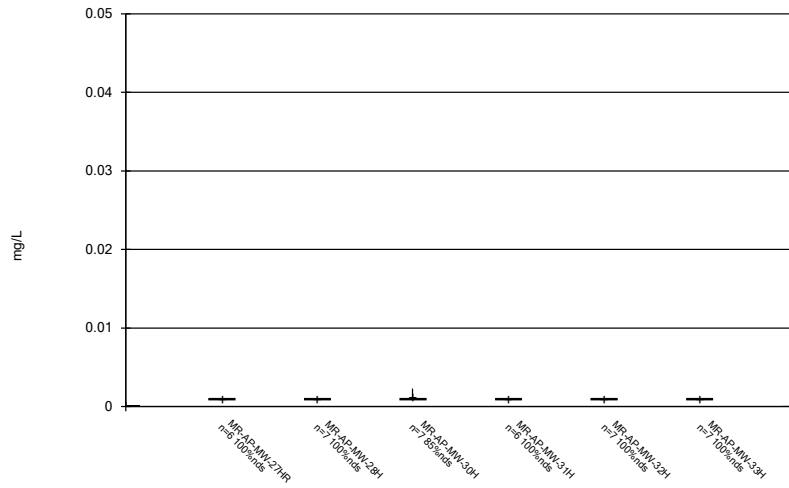
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Box & Whiskers Plot



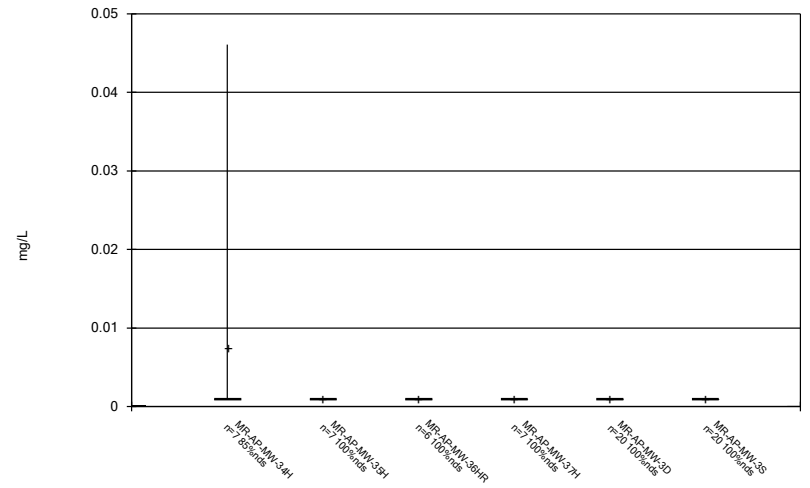
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Box & Whiskers Plot



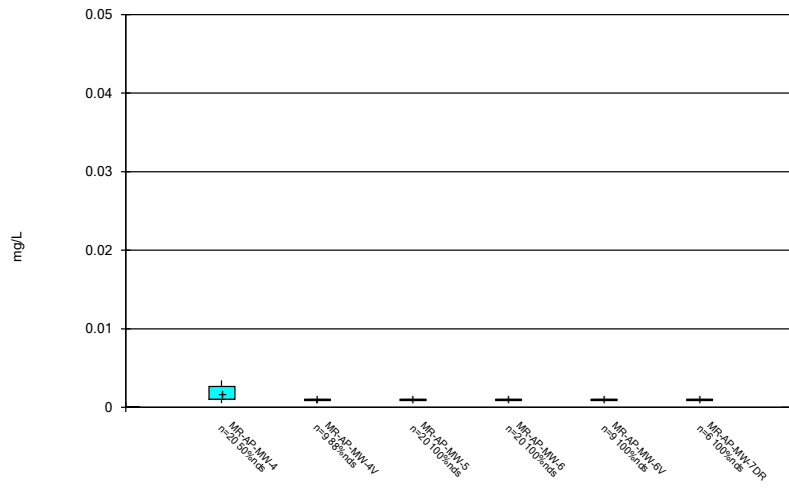
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Box & Whiskers Plot



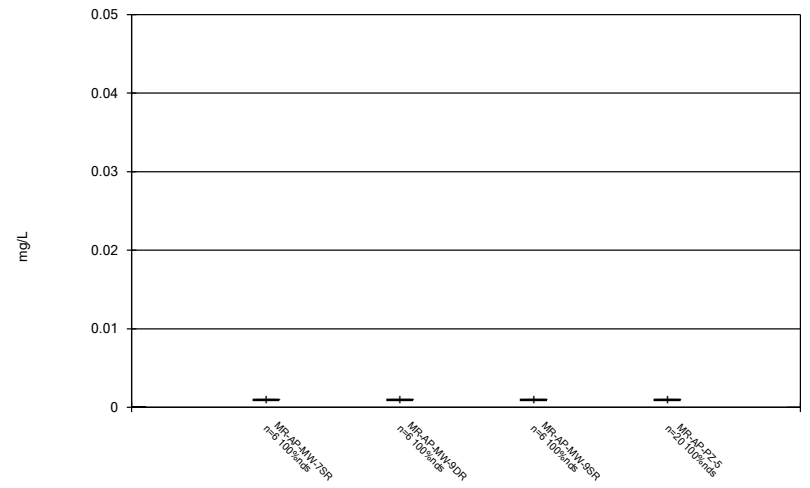
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Box & Whiskers Plot



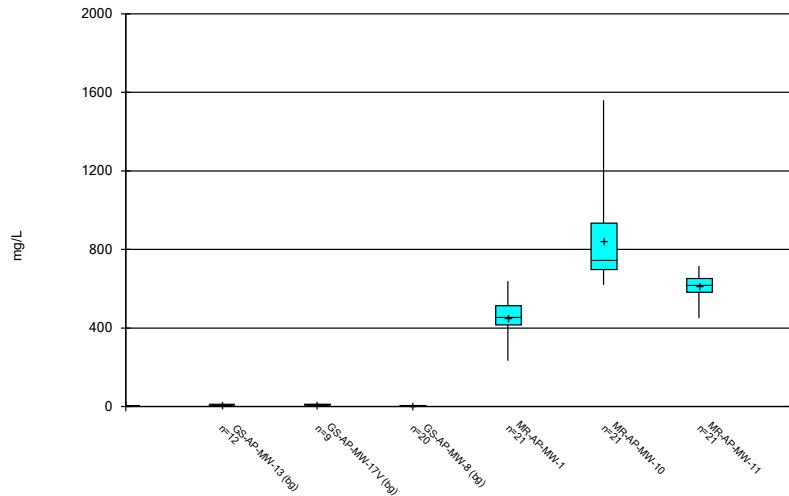
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Box & Whiskers Plot



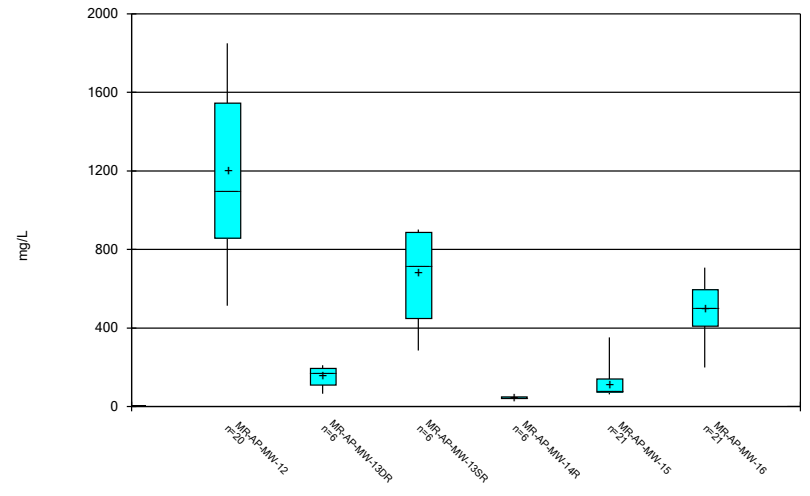
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Box & Whiskers Plot



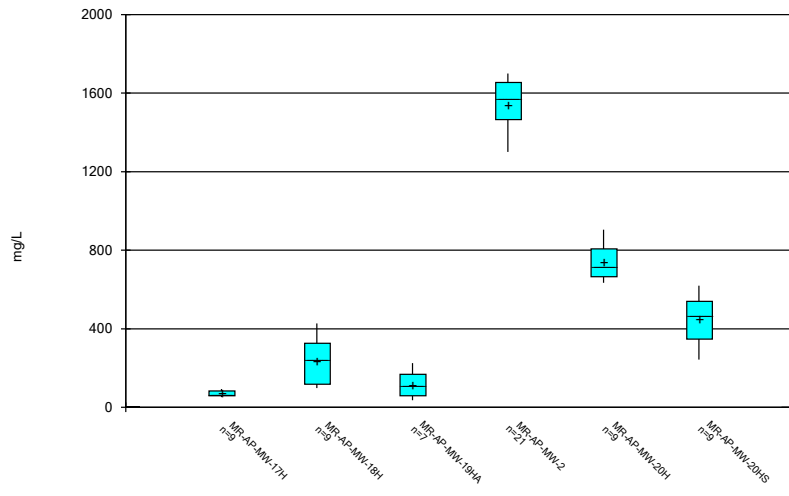
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



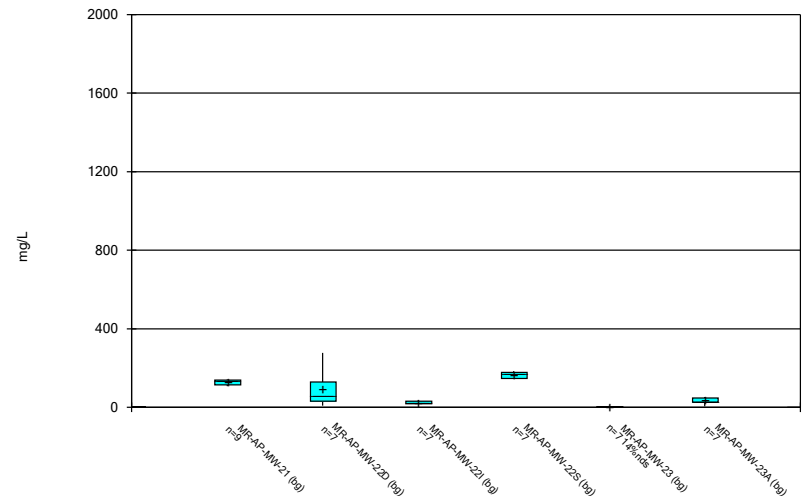
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Box & Whiskers Plot



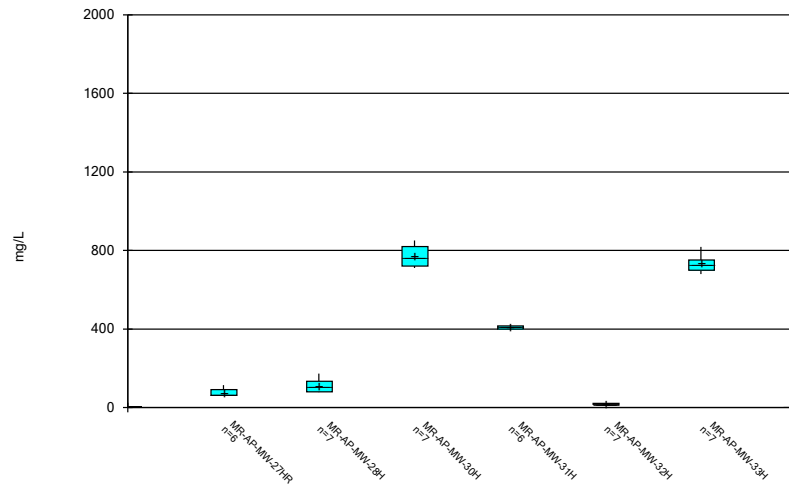
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Box & Whiskers Plot



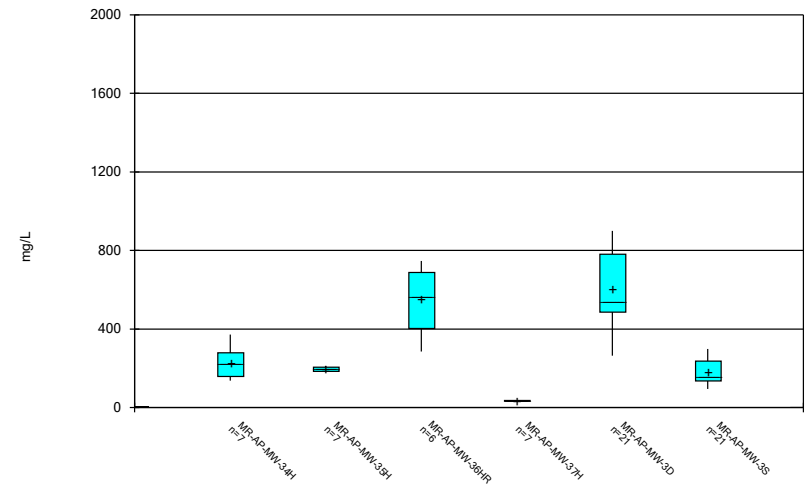
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Box & Whiskers Plot



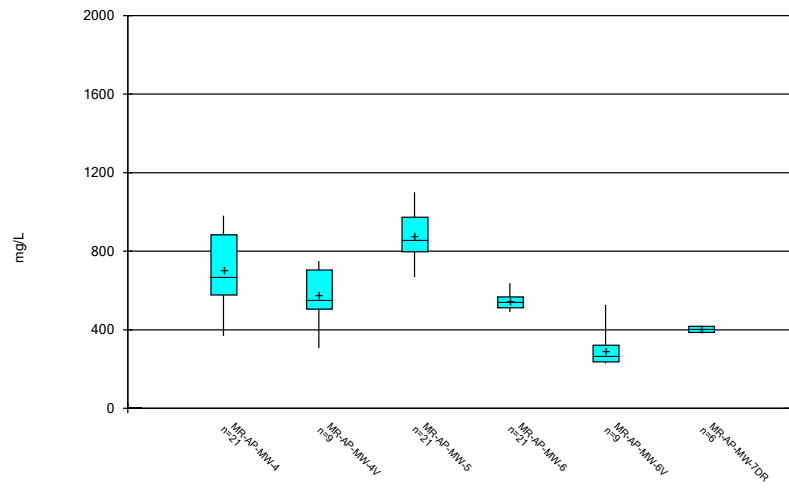
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Box & Whiskers Plot



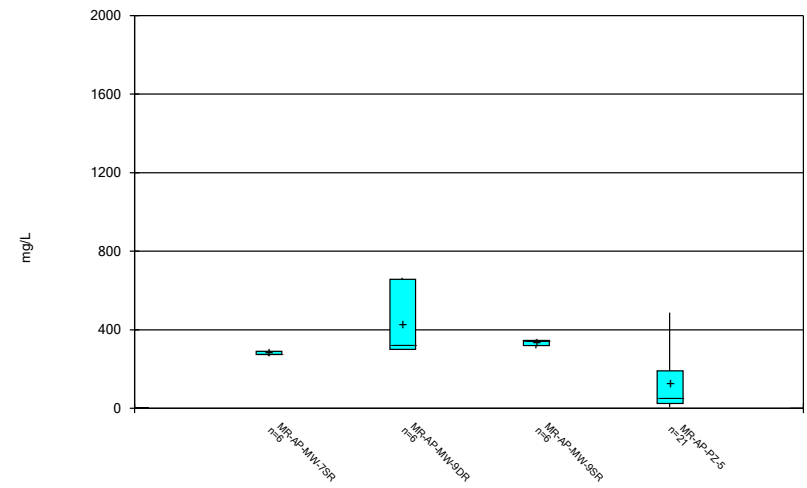
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Box & Whiskers Plot



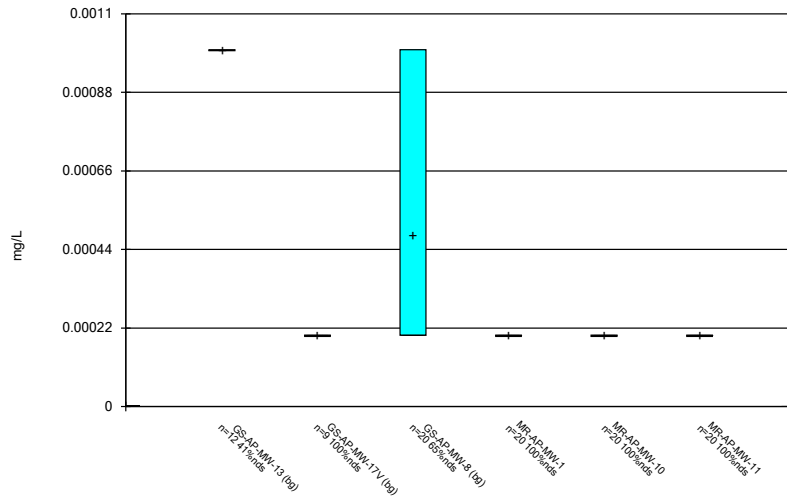
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Box & Whiskers Plot



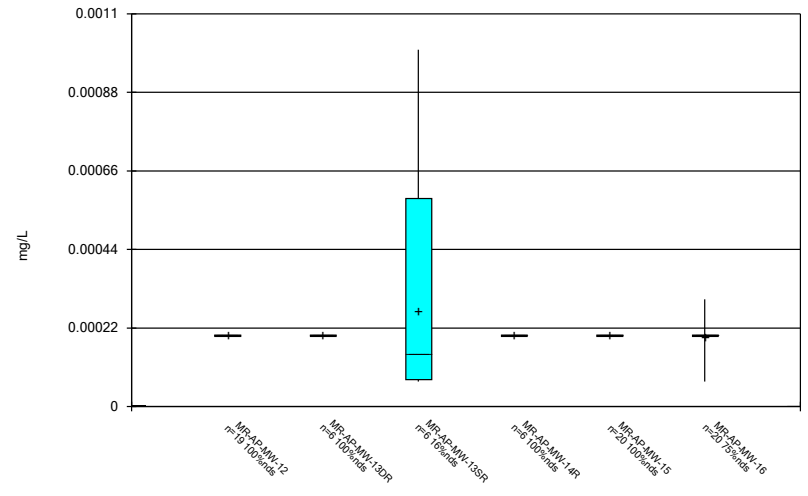
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Box & Whiskers Plot



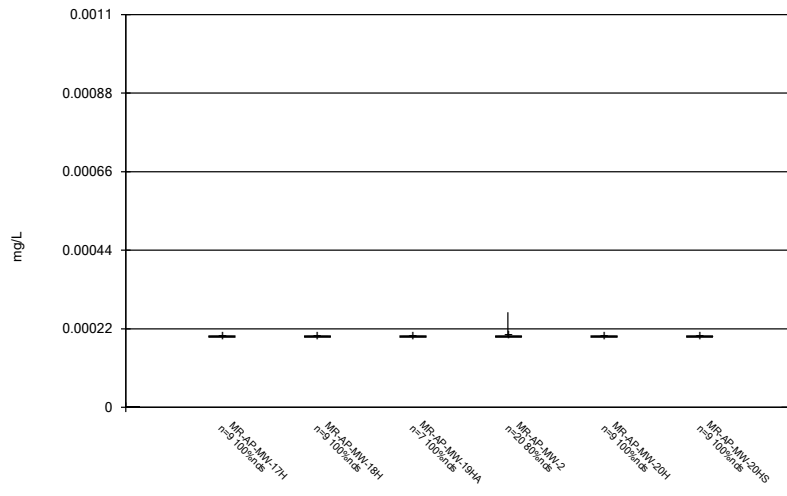
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Box & Whiskers Plot



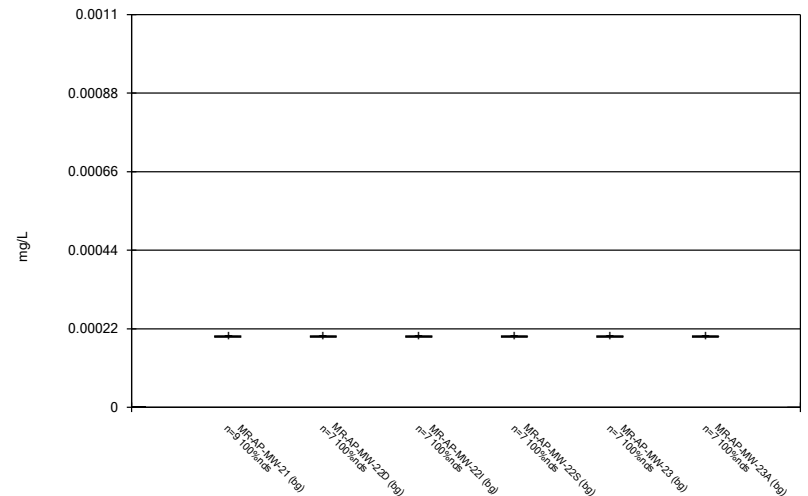
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Box & Whiskers Plot



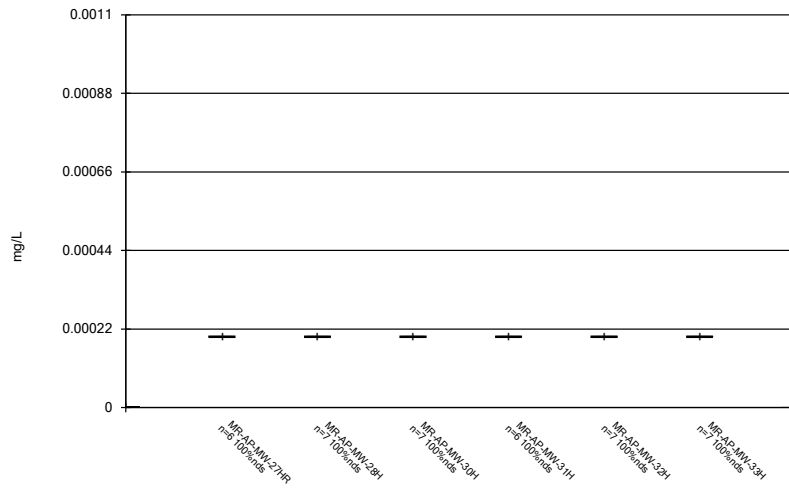
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Box & Whiskers Plot



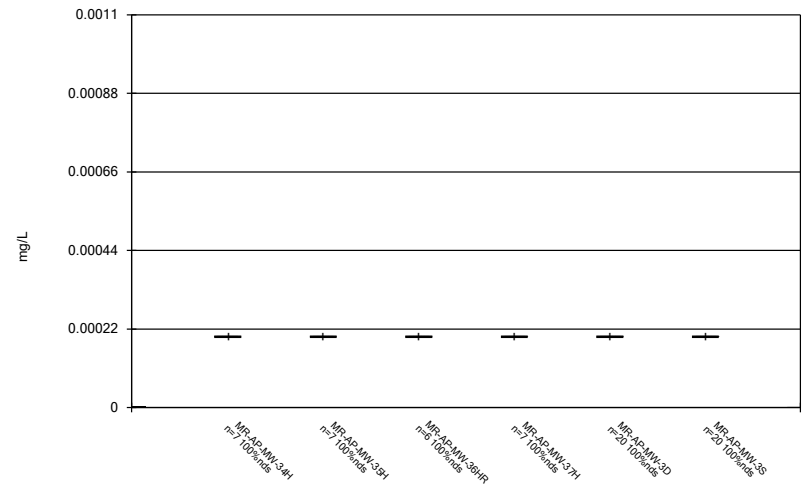
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Box & Whiskers Plot



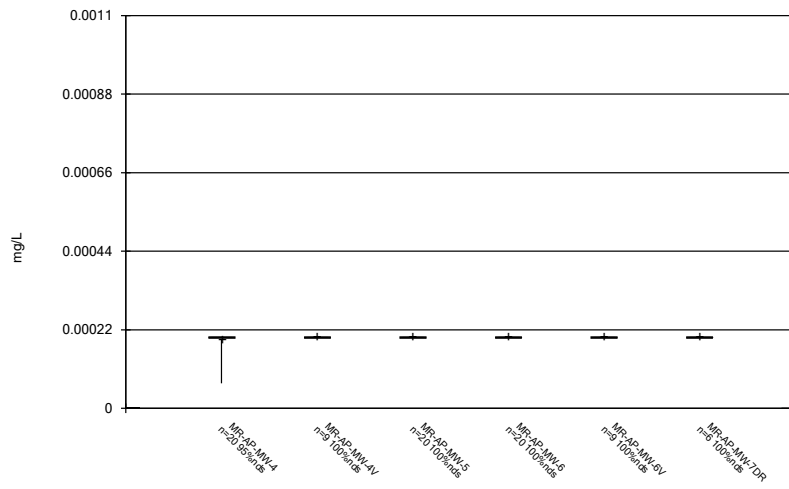
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Box & Whiskers Plot



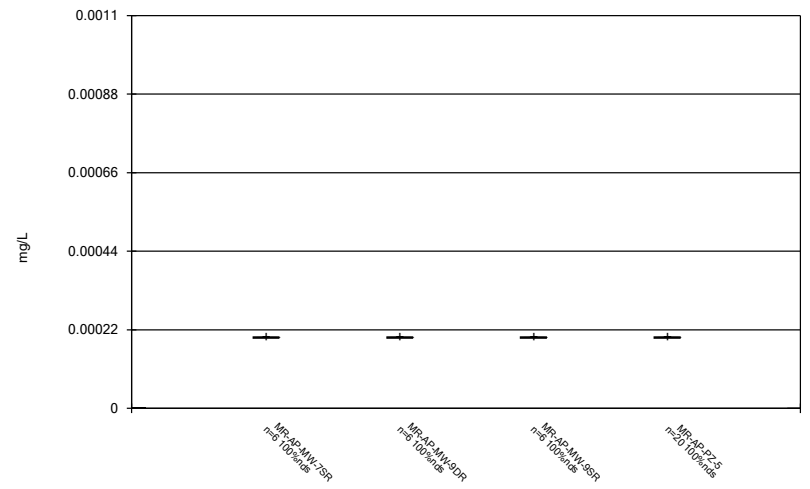
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Box & Whiskers Plot



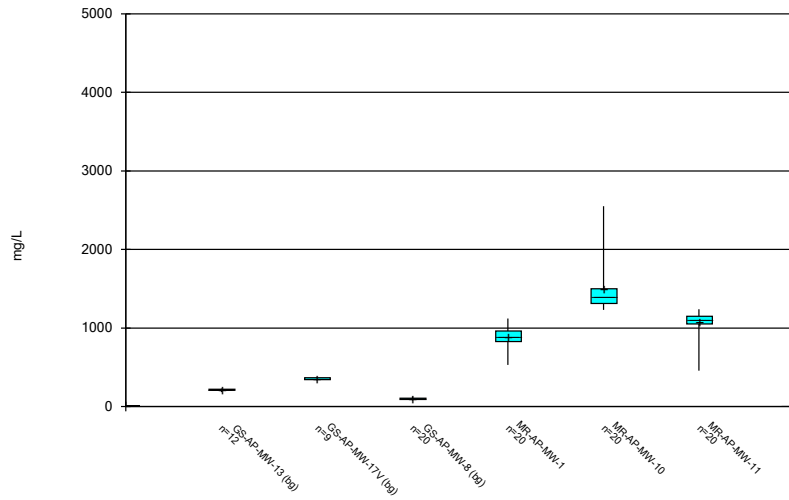
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Box & Whiskers Plot



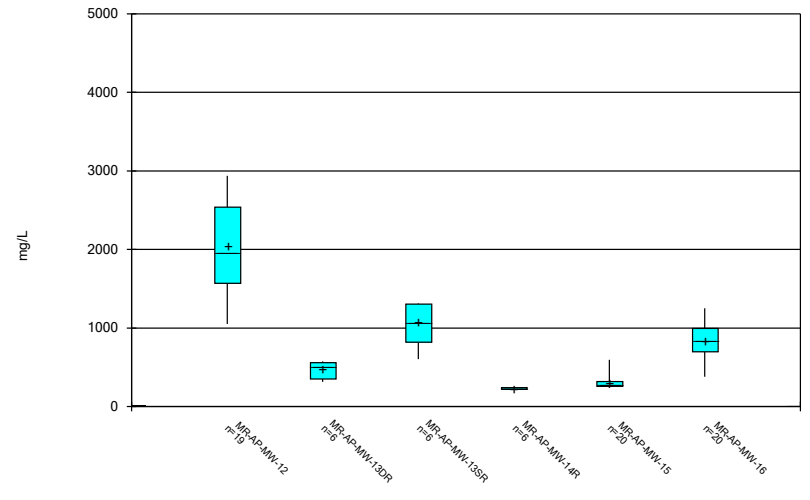
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Box & Whiskers Plot



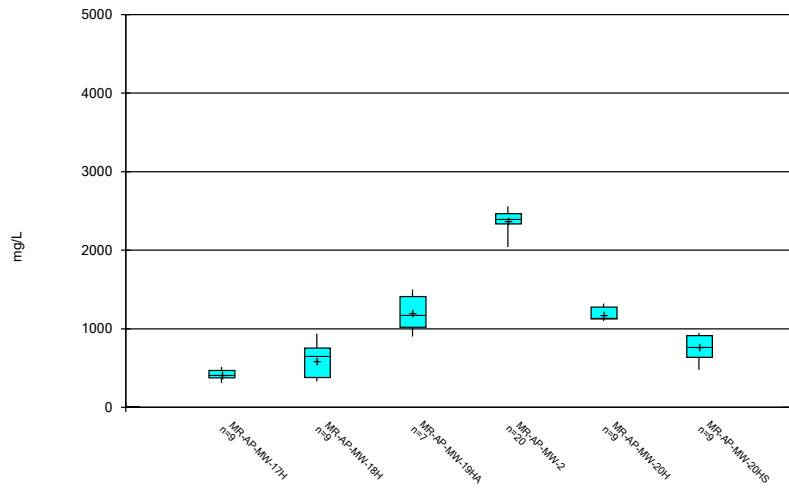
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



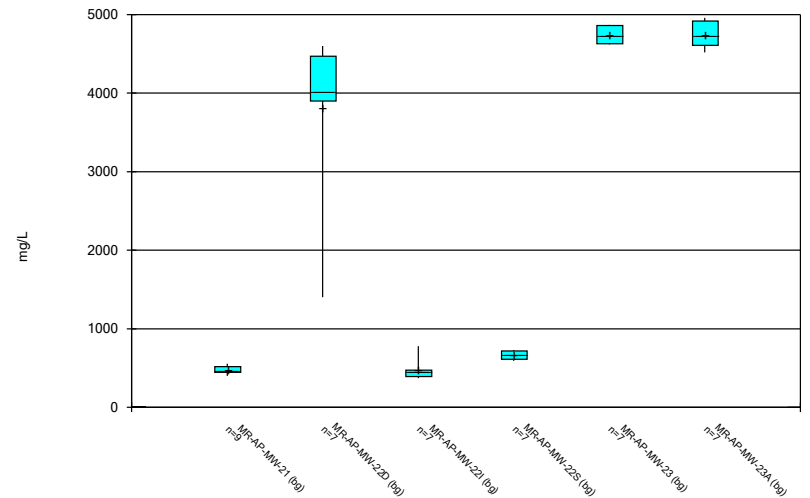
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Box & Whiskers Plot



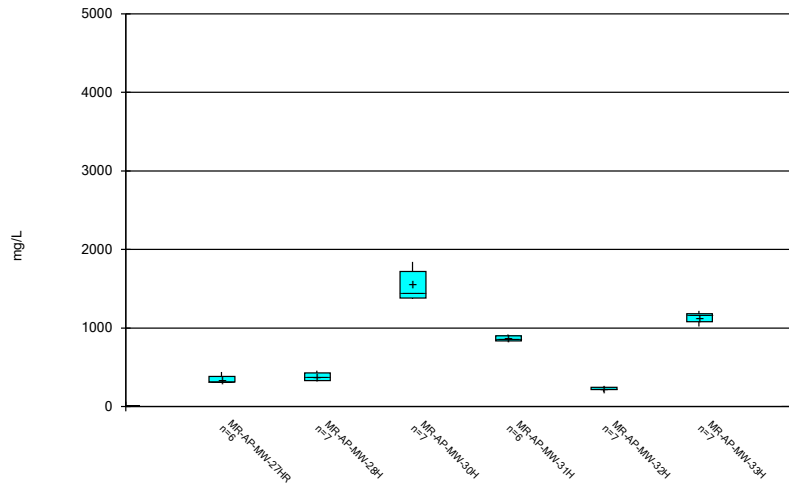
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



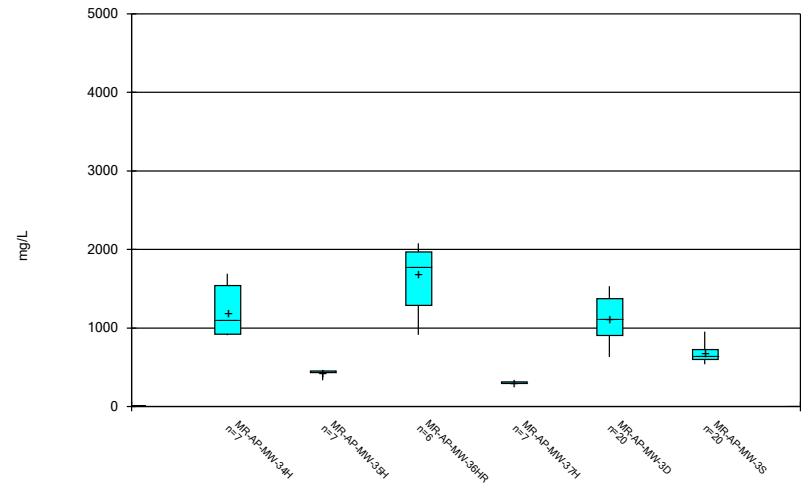
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Box & Whiskers Plot



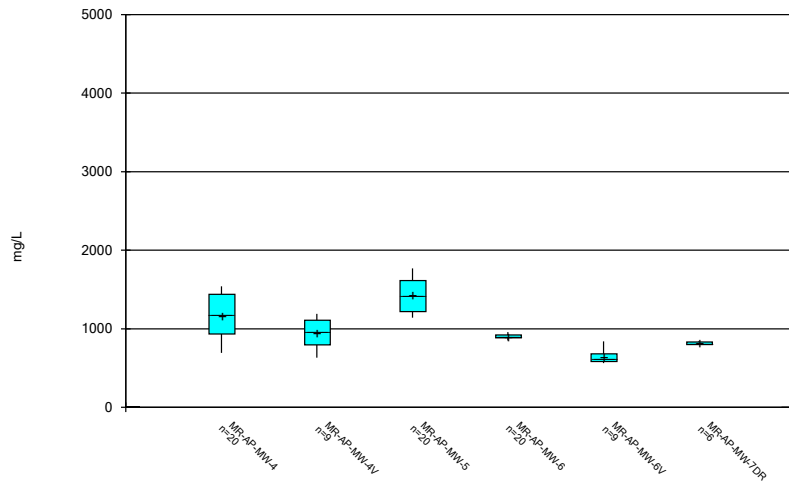
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



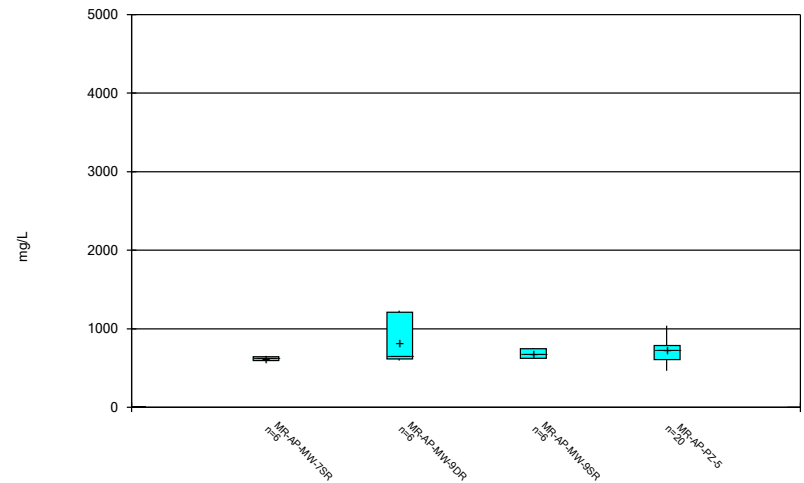
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2023 11:51 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2023 11:51 AM
Plant Miller Client: Southern Company Data: Miller Ash Pond

FIGURE C.

Outlier Summary

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/28/2023, 11:57 AM

No values were flagged as outliers.

FIGURE D.

Intrawell Prediction Limits - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:29 AM

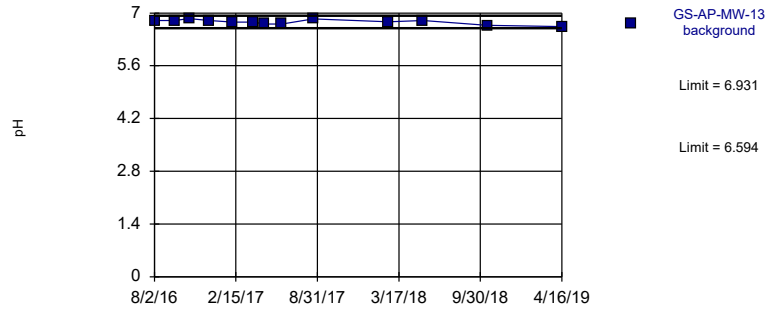
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	MR-AP-MW-10	7.103	6.575	5/3/2023	7.15	Yes	18	6.839	0.1089	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-12	6.685	6.441	5/3/2023	6.74	Yes	17	6.563	0.04982	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-4	6.067	5.624	5/2/2023	6.07	Yes	19	5.846	0.0927	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-5	7.268	6.893	4/25/2023	7.37	Yes	18	7.08	0.07743	0	None	No	0.0002894	Param Intra 1 of 2

Intrawell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:29 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	GS-AP-MW-13	6.931	6.594	n/a	1 future	n/a	13	6.762	0.06353	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	GS-AP-MW-8	6.099	5.378	3/27/2023	5.82	No	17	1110	111.7	0	None	x^4	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-1	9.647	7.368	5/2/2023	8.6	No	14	8.508	0.4386	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-10	7.103	6.575	5/3/2023	7.15	Yes	18	6.839	0.1089	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-11	7.3	6.5	5/3/2023	6.52	No	19	n/a	n/a	0	n/a	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, Field (pH)	MR-AP-MW-12	6.685	6.441	5/3/2023	6.74	Yes	17	6.563	0.04982	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-15	6.587	6.323	4/19/2023	6.33	No	18	6.455	0.05437	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-16	6.436	5.758	4/19/2023	6.35	No	18	6.097	0.1401	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-2	6.422	5.872	5/2/2023	6.12	No	18	6.147	0.1135	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3D	6.954	6.624	5/2/2023	6.82	No	19	6.789	0.06919	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3S	9.882	8.717	5/2/2023	9.28	No	19	9.299	0.2437	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-4	6.067	5.624	5/2/2023	6.07	Yes	19	5.846	0.0927	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-5	7.268	6.893	4/25/2023	7.37	Yes	18	7.08	0.07743	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-6	6.213	5.875	4/25/2023	6.06	No	19	6.044	0.07073	0	None	No	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-PZ-5	8.63	7.584	4/25/2023	8.46	No	19	8.107	0.2188	0	None	No	No	0.0002894	Param Intra 1 of 2

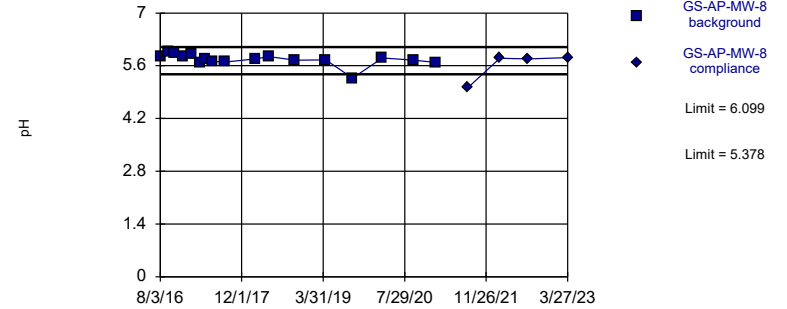
Prediction Limit
Intrawell Parametric, GS-AP-MW-13 (bg)



Background Data Summary: Mean=6.762, Std. Dev.=0.06353, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.934, critical = 0.814. Kappa = 2.656 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787. Assumes 1 future value.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

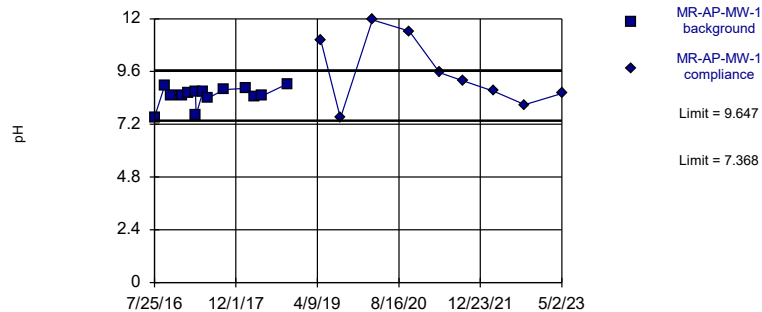
Within Limits Prediction Limit
Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=1110, Std. Dev.=111.7, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.865, critical = 0.851. Kappa = 2.451 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

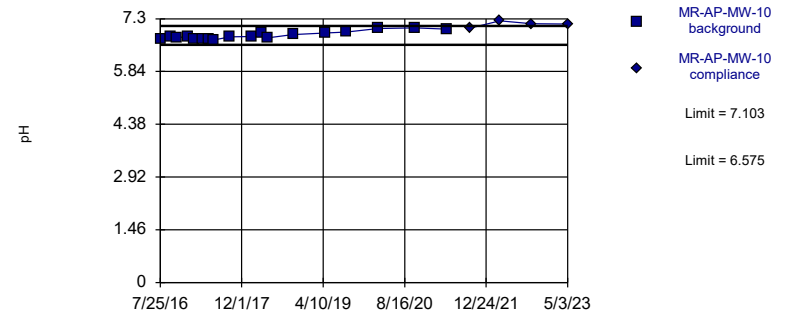
Within Limits Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=8.508, Std. Dev.=0.4386, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8311, critical = 0.825. Kappa = 2.598 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits Prediction Limit
Intrawell Parametric

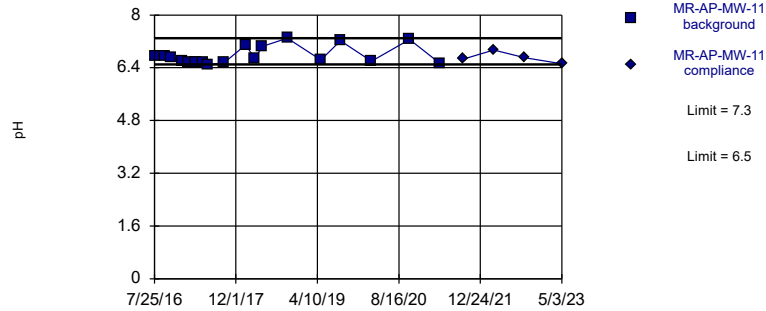


Background Data Summary: Mean=6.839, Std. Dev.=0.1089, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8977, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Non-parametric

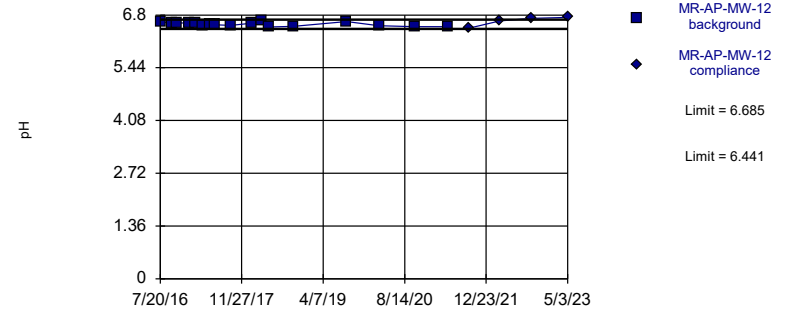


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

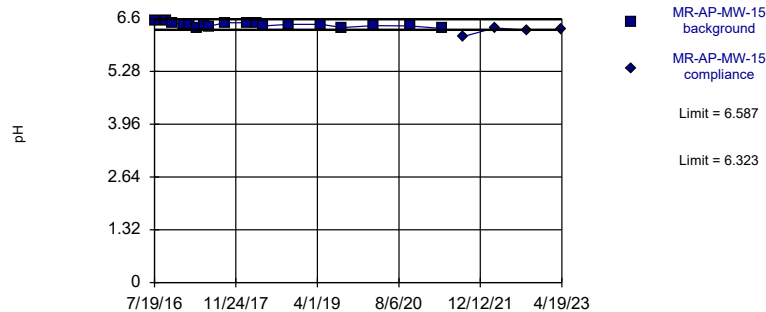


Background Data Summary: Mean=6.563, Std. Dev.=0.04982, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9366, critical = 0.851. Kappa = 2.451 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

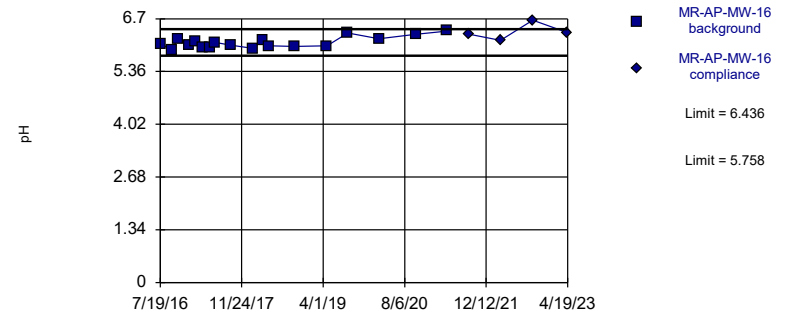


Background Data Summary: Mean=6.455, Std. Dev.=0.05437, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9619, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

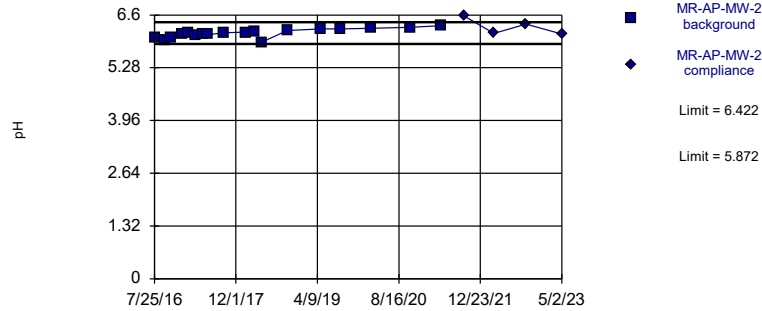


Background Data Summary: Mean=6.097, Std. Dev.=0.1401, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9156, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

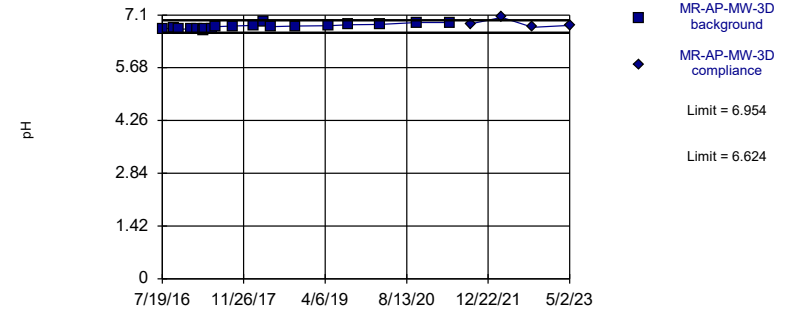


Background Data Summary: Mean=6.147, Std. Dev.=0.1135, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9708, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

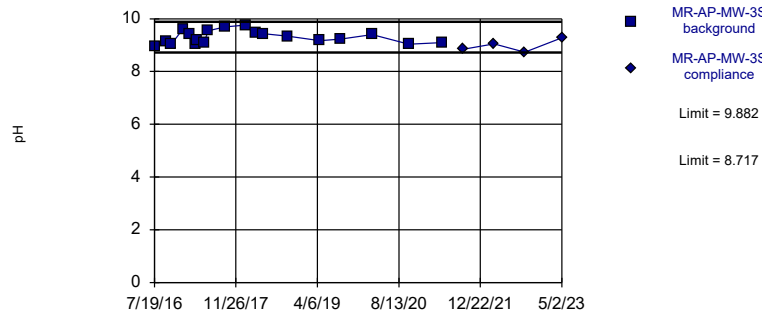


Background Data Summary: Mean=6.789, Std. Dev.=0.06919, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9396, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

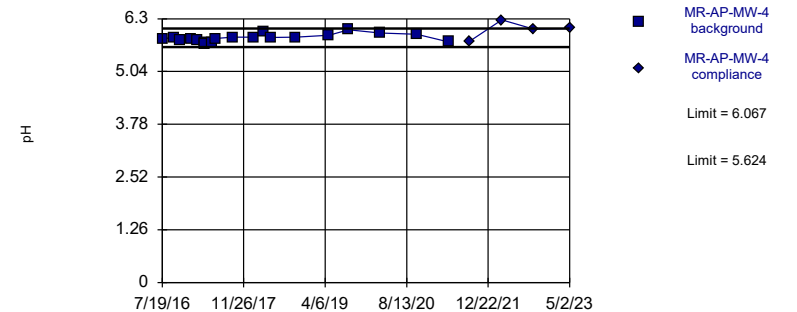


Background Data Summary: Mean=9.299, Std. Dev.=0.2437, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

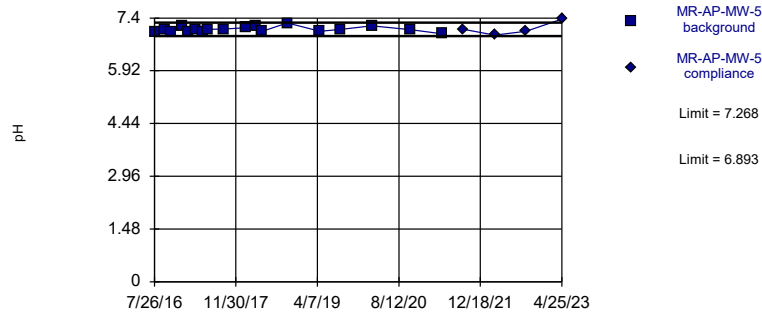


Background Data Summary: Mean=5.846, Std. Dev.=0.0927, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.965, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

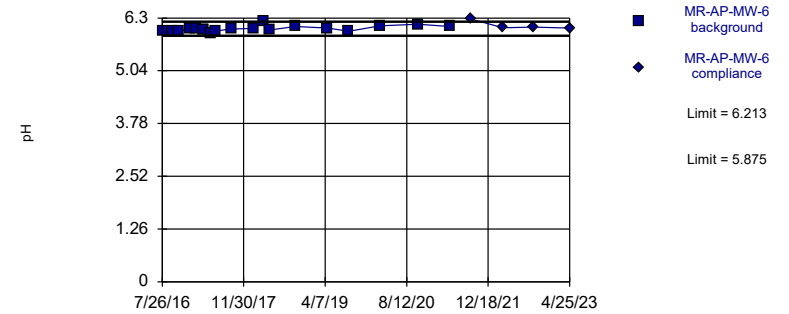


Background Data Summary: Mean=7.08, Std. Dev.=0.07743, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9459, critical = 0.858. Kappa = 2.421 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

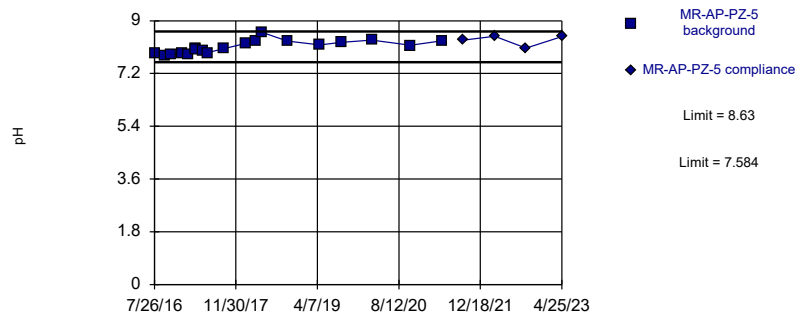


Background Data Summary: Mean=6.044, Std. Dev.=0.07073, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9349, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric



Background Data Summary: Mean=8.107, Std. Dev.=0.2188, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9391, critical = 0.863. Kappa = 2.391 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 6/22/2023 7:26 AM View: Appendix III - Intrawell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:29 AM View: Appendix III - IntraWell
Plant Miller Client: Southern Company Data: Miller Ash Pond

GS-AP-MW-13

8/2/2016	6.8
9/20/2016	6.8
10/25/2016	6.85
12/13/2016	6.8
2/8/2017	6.76
3/29/2017	6.76
4/26/2017	6.71
6/7/2017	6.71
8/22/2017	6.84
2/20/2018	6.77
5/15/2018	6.8
10/17/2018	6.67 (D)
4/16/2019	6.64

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:29 AM View: Appendix III - IntraWell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-8	GS-AP-MW-8
8/3/2016	5.84	
9/21/2016	5.99	
10/25/2016	5.94	
12/13/2016	5.84	
2/6/2017	5.9	
3/28/2017	5.67	
4/24/2017	5.79	
6/7/2017	5.71	
8/21/2017	5.7	
2/19/2018	5.78	
5/15/2018	5.84	
10/16/2018	5.75 (D)	
4/16/2019	5.76	
9/24/2019	5.27	
3/18/2020	5.81	
9/21/2020	5.75	
2/2/2021	5.69	
8/10/2021		5.02
2/16/2022		5.8
8/2/2022		5.78
3/27/2023		5.82

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:29 AM View: Appendix III - Intravel
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-1
7/25/2016	7.52	
9/26/2016	8.96	
11/2/2016	8.51	
1/11/2017	8.5	
2/13/2017	8.63	
3/30/2017	8.67	
4/3/2017	7.63	
5/15/2017	8.67	
6/14/2017	8.39	
9/19/2017	8.78	
1/29/2018	8.84	
3/27/2018	8.48 (D)	
5/9/2018	8.49	
10/9/2018	9.04	
5/1/2019		11.01
8/27/2019		7.48
3/9/2020		11.95
10/19/2020		11.44
4/20/2021		9.55
9/8/2021		9.19
3/15/2022		8.71
9/19/2022		8.09
5/2/2023		8.6

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:29 AM View: Appendix III - Intrawell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-10	MR-AP-MW-10
7/25/2016	6.73	
9/27/2016	6.82	
10/31/2016	6.78	
1/11/2017	6.8	
2/14/2017	6.74	
4/6/2017	6.73	
5/17/2017	6.73	
6/13/2017	6.71	
9/21/2017	6.8	
1/31/2018	6.81	
3/28/2018	6.895 (D)	
5/10/2018	6.77	
10/8/2018	6.86	
4/24/2019	6.91	
8/29/2019	6.93	
3/9/2020	7.03	
10/19/2020	7.05	
5/3/2021	7.01	
9/15/2021		7.04
3/17/2022		7.24
9/26/2022		7.16
5/3/2023		7.15

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:29 AM View: Appendix III - Intrawell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-MW-11
7/25/2016	6.74	
9/27/2016	6.74	
11/1/2016	6.71	
1/12/2017	6.61	
2/13/2017	6.58	
3/30/2017	6.57	
4/4/2017	6.56	
5/16/2017	6.56	
6/14/2017	6.5	
9/19/2017	6.55	
1/30/2018	7.09	
3/27/2018	6.665 (D)	
5/8/2018	7.04	
10/9/2018	7.3	
5/1/2019	6.64	
8/28/2019	7.22	
3/3/2020	6.6	
10/20/2020	7.26	
4/21/2021	6.54	
9/14/2021		6.67
3/16/2022		6.94
9/20/2022		6.7
5/3/2023		6.52

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:30 AM View: Appendix III - Intravel

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-12
7/20/2016	6.63	
9/27/2016	6.59	
11/1/2016	6.6	
1/11/2017	6.59	
2/15/2017	6.59	
4/4/2017	6.54	
5/15/2017	6.56	
6/14/2017	6.55	
9/21/2017	6.53	
1/30/2018	6.59	
3/28/2018	6.645 (D)	
5/8/2018	6.49	
10/8/2018	6.51	
8/28/2019	6.63	
3/10/2020	6.52	
10/19/2020	6.5	
5/5/2021	6.5	
9/7/2021		6.46
3/17/2022		6.65
9/26/2022		6.71
5/3/2023		6.74

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:30 AM View: Appendix III - IntraWell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-15	MR-AP-MW-15
7/19/2016	6.55	
9/26/2016	6.55	
10/31/2016	6.49	
1/9/2017	6.46	
2/14/2017	6.47	
4/4/2017	6.38	
5/16/2017	6.46	
6/12/2017	6.41	
9/19/2017	6.5	
1/31/2018	6.5	
3/28/2018	6.49 (D)	
5/7/2018	6.42	
10/9/2018	6.46	
4/24/2019	6.46	
8/28/2019	6.38	
3/4/2020	6.43	
10/13/2020	6.42	
4/26/2021	6.36	
9/1/2021		6.16
3/9/2022		6.37
9/20/2022		6.32
4/19/2023		6.33

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:30 AM View: Appendix III - IntraWell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-16
7/19/2016	6.07	
9/26/2016	5.91	
10/31/2016	6.19	
1/9/2017	6.03	
2/14/2017	6.13	
4/3/2017	5.97	
5/16/2017	5.97	
6/12/2017	6.1	
9/19/2017	6.03	
1/30/2018	5.95	
3/28/2018	6.14 (D)	
5/7/2018	6.01	
10/9/2018	6	
4/24/2019	6.01	
8/28/2019	6.34	
3/3/2020	6.19	
10/13/2020	6.31	
4/21/2021	6.39	
9/1/2021		6.31
3/8/2022		6.15
9/20/2022		6.66
4/19/2023		6.35

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:30 AM View: Appendix III - Intravel
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-2	MR-AP-MW-2
7/25/2016	6.03	
9/28/2016	5.96	
11/1/2016	6.02	
1/11/2017	6.11	
2/14/2017	6.16	
4/4/2017	6.1	
5/16/2017	6.12	
6/14/2017	6.11	
9/20/2017	6.16	
1/30/2018	6.17	
3/27/2018	6.19 (D)	
5/9/2018	5.92	
10/9/2018	6.21	
5/1/2019	6.25	
8/27/2019	6.25	
3/3/2020	6.27	
10/21/2020	6.29	
4/26/2021	6.33	
9/14/2021		6.58
3/16/2022		6.14
9/26/2022		6.37
5/2/2023		6.12

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:30 AM View: Appendix III - IntraWell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3D	MR-AP-MW-3D
7/19/2016	6.72	
9/26/2016	6.76	
10/31/2016	6.72	
1/9/2017	6.73	
2/13/2017	6.73	
3/29/2017	6.68	
4/3/2017	6.73	
5/16/2017	6.71	
6/12/2017	6.79	
9/20/2017	6.8	
1/29/2018	6.82	
3/27/2018	6.91 (D)	
5/10/2018	6.79	
10/9/2018	6.8	
4/29/2019	6.81	
8/27/2019	6.84	
3/3/2020	6.85	
10/13/2020	6.9	
5/5/2021	6.9	
9/7/2021		6.86
3/16/2022		7.04
9/19/2022		6.77
5/2/2023		6.82

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:30 AM View: Appendix III - IntraWell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3S	MR-AP-MW-3S
7/19/2016	8.95	
9/26/2016	9.13	
10/31/2016	9.04	
1/9/2017	9.62	
2/13/2017	9.43	
3/29/2017	9.04	
4/3/2017	9.18	
5/16/2017	9.11	
6/12/2017	9.54	
9/20/2017	9.69	
1/29/2018	9.76	
3/27/2018	9.475 (D)	
5/10/2018	9.44	
10/9/2018	9.34	
4/22/2019	9.17	
8/27/2019	9.23	
3/3/2020	9.4	
10/13/2020	9.04	
5/5/2021	9.1	
9/7/2021		8.84
3/16/2022		9.05
9/19/2022		8.73
5/2/2023		9.28

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:30 AM View: Appendix III - Intravel

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4
7/19/2016	5.82	
9/27/2016	5.85	
11/1/2016	5.79	
1/9/2017	5.83	
2/13/2017	5.78	
3/30/2017	5.73	
4/4/2017	5.7	
5/16/2017	5.72	
6/12/2017	5.83	
9/20/2017	5.86	
1/29/2018	5.86	
3/27/2018	6 (D)	
5/9/2018	5.85	
10/8/2018	5.86	
4/29/2019	5.91	
8/27/2019	6.04	
3/4/2020	5.96	
10/14/2020	5.93	
4/26/2021	5.75	
9/1/2021		5.76
3/15/2022		6.27
9/26/2022		6.05
5/2/2023		6.07

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:30 AM View: Appendix III - Intrawell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-5	MR-AP-MW-5
7/26/2016	7.01	
9/28/2016	7.06	
11/2/2016	7.02	
1/10/2017	7.17	
2/14/2017	7.01	
4/3/2017	7.09	
5/17/2017	7	
6/12/2017	7.08	
9/18/2017	7.09	
1/31/2018	7.13	
3/27/2018	7.175 (D)	
5/9/2018	7.03	
10/8/2018	7.26	
4/23/2019	7.03	
8/28/2019	7.08	
3/2/2020	7.18	
10/21/2020	7.07	
5/3/2021	6.96	
9/8/2021		7.08
3/14/2022		6.92
9/20/2022		7.03
4/25/2023		7.37

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:30 AM View: Appendix III - Intrawell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-6	MR-AP-MW-6
7/26/2016	5.98	
9/28/2016	6	
11/1/2016	6	
1/9/2017	6.04	
2/13/2017	6.04	
3/29/2017	6.01	
4/3/2017	6.02	
5/16/2017	5.92	
6/12/2017	5.99	
9/18/2017	6.04	
1/31/2018	6.05	
3/27/2018	6.23 (D)	
5/9/2018	6.01	
10/8/2018	6.1	
4/23/2019	6.06	
8/28/2019	5.98	
3/3/2020	6.11	
10/20/2020	6.15	
4/28/2021	6.1	
9/1/2021		6.28
3/16/2022		6.07
9/21/2022		6.08
4/25/2023		6.06

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 6/22/2023 7:30 AM View: Appendix III - IntraWell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-PZ-5	MR-AP-PZ-5
7/26/2016	7.88	
9/28/2016	7.8	
11/2/2016	7.86	
1/12/2017	7.9	
2/13/2017	7.86	
3/30/2017	8.06	
4/3/2017	8	
5/17/2017	7.99	
6/12/2017	7.91	
9/18/2017	8.04	
1/31/2018	8.23	
3/27/2018	8.33 (D)	
5/9/2018	8.6	
10/8/2018	8.31	
4/23/2019	8.18	
8/29/2019	8.26	
3/2/2020	8.34	
10/21/2020	8.16	
5/3/2021	8.32	
9/8/2021		8.34
3/14/2022		8.47
9/20/2022		8.07
4/25/2023		8.46

FIGURE E.

Interwell Prediction Limits - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MR-AP-MW-10	0.1015	n/a	5/3/2023	6.84	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-12	0.1015	n/a	5/3/2023	5.38	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-15	0.1015	n/a	4/19/2023	1.36	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-16	0.1015	n/a	4/19/2023	2.18	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-2	0.1015	n/a	5/2/2023	0.216	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3D	0.1015	n/a	5/2/2023	0.324	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3S	0.1015	n/a	5/2/2023	0.245	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-4	0.1015	n/a	5/2/2023	0.382	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-5	0.1015	n/a	4/25/2023	0.961	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-6	0.1015	n/a	4/25/2023	0.865	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-PZ-5	0.1015	n/a	4/25/2023	0.249	Yes	50	n/a	n/a	36	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-1	63.8	n/a	5/2/2023	130	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-10	63.8	n/a	5/3/2023	118	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-11	63.8	n/a	5/3/2023	231	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-15	63.8	n/a	4/19/2023	66.4	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-16	63.8	n/a	4/19/2023	158	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-2	63.8	n/a	5/2/2023	251	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-3D	63.8	n/a	5/2/2023	94.5	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-4	63.8	n/a	5/2/2023	146	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-5	63.8	n/a	4/25/2023	229	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-6	63.8	n/a	4/25/2023	147	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-3S	21	n/a	5/2/2023	84.3	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-5	21	n/a	4/25/2023	22.2	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-6	21	n/a	4/25/2023	32.7	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-10	0.2978	n/a	5/3/2023	0.902	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-12	0.2978	n/a	5/3/2023	1.18	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-2	0.2978	n/a	5/2/2023	0.321	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-3D	0.2978	n/a	5/2/2023	0.348	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-3S	0.2978	n/a	5/2/2023	0.311	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-5	0.2978	n/a	4/25/2023	0.424	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2978	n/a	4/25/2023	2.23	Yes	52	0.1532	0.06897	0	None	No	0.0005787	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-1	141	n/a	5/2/2023	445	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-10	141	n/a	5/3/2023	1250	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-11	141	n/a	5/3/2023	716	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-12	141	n/a	5/3/2023	513	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-15	141	n/a	4/19/2023	281	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-16	141	n/a	4/19/2023	553	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-2	141	n/a	5/2/2023	1570	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	141	n/a	5/2/2023	264	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	141	n/a	5/2/2023	161	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-4	141	n/a	5/2/2023	368	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-5	141	n/a	4/25/2023	744	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-6	141	n/a	4/25/2023	549	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	552	n/a	5/2/2023	920	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	552	n/a	5/3/2023	2110	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	552	n/a	5/3/2023	1240	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	552	n/a	5/3/2023	1050	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	552	n/a	5/2/2023	2400	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	552	n/a	5/2/2023	630	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	552	n/a	5/2/2023	638	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	552	n/a	5/2/2023	724	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	552	n/a	4/25/2023	1200	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	552	n/a	4/25/2023	896	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	552	n/a	4/25/2023	712	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2

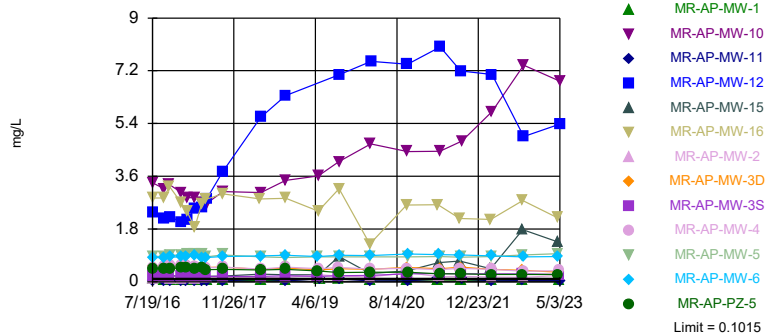
Interwell Prediction Limits - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	MR-AP-MW-1	141	n/a	5/2/2023	445	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-10	141	n/a	5/3/2023	1250	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-11	141	n/a	5/3/2023	716	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-12	141	n/a	5/3/2023	513	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-15	141	n/a	4/19/2023	281	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-16	141	n/a	4/19/2023	553	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-2	141	n/a	5/2/2023	1570	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	141	n/a	5/2/2023	264	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	141	n/a	5/2/2023	161	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-4	141	n/a	5/2/2023	368	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-5	141	n/a	4/25/2023	744	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-6	141	n/a	4/25/2023	549	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-PZ-5	141	n/a	4/25/2023	6.92	No	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	552	n/a	5/2/2023	920	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	552	n/a	5/3/2023	2110	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	552	n/a	5/3/2023	1240	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	552	n/a	5/3/2023	1050	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	552	n/a	4/19/2023	428	No	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	552	n/a	4/19/2023	472	No	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	552	n/a	5/2/2023	2400	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	552	n/a	5/2/2023	630	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	552	n/a	5/2/2023	638	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	552	n/a	5/2/2023	724	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	552	n/a	4/25/2023	1200	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	552	n/a	4/25/2023	896	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	552	n/a	4/25/2023	712	Yes	50	n/a	n/a	0	n/a	n/a	0.0007237	NP Inter (normality) 1 of 2

Exceeds Limit: MR-AP-MW-10, MR-AP-MW-12, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S,...

Prediction Limit
Interwell Non-parametric

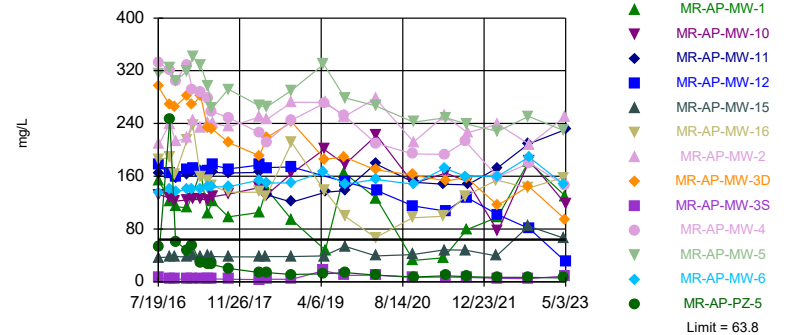


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. 36% NDs. Annual per-constituent alpha = 0.01865. Individual comparison alpha = 0.0007237 (1 of 2). Comparing 13 points to limit.

Constituent: Boron, total Analysis Run 6/22/2023 7:46 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D,...

Prediction Limit
Interwell Non-parametric

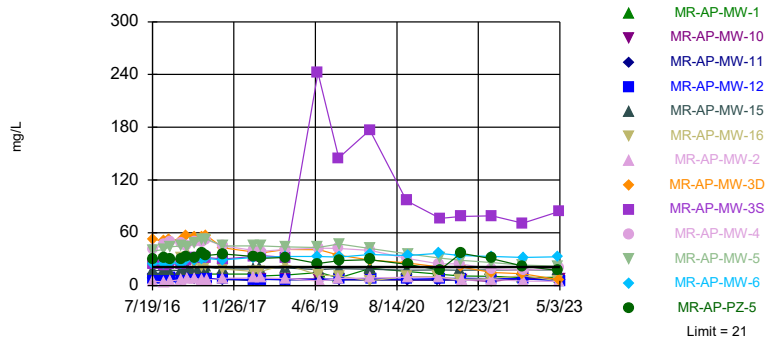


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.01865. Individual comparison alpha = 0.0007237 (1 of 2). Comparing 13 points to limit.

Constituent: Calcium, total Analysis Run 6/22/2023 7:47 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-3S, MR-AP-MW-5, MR-AP-MW-6

Prediction Limit
Interwell Non-parametric

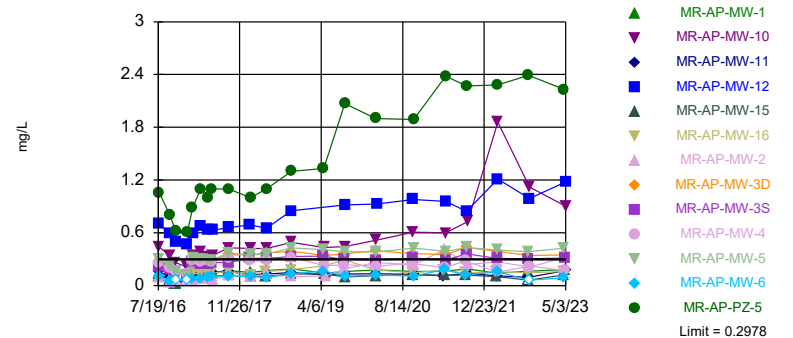


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.01865. Individual comparison alpha = 0.0007237 (1 of 2). Comparing 13 points to limit.

Constituent: Chloride, Total Analysis Run 6/22/2023 7:47 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-10, MR-AP-MW-12, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-PZ-5

Prediction Limit
Interwell Parametric

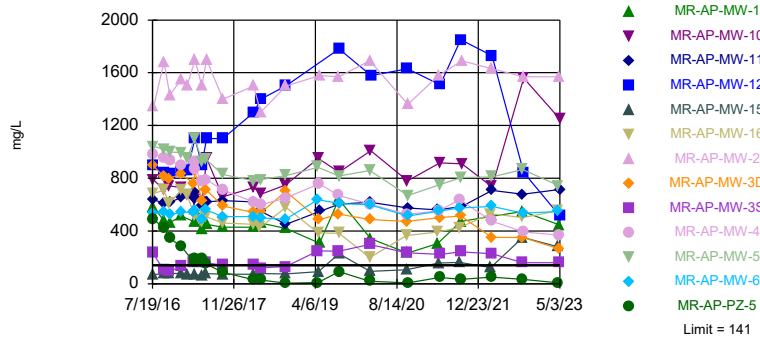


Background Data Summary: Mean=0.1532, Std. Dev.=0.06897, n=52. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9732, critical = 0.937. Kappa = 2.096 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005787. Comparing 13 points to limit.

Constituent: Fluoride, total Analysis Run 6/22/2023 7:47 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2,...

Prediction Limit
Interwell Non-parametric

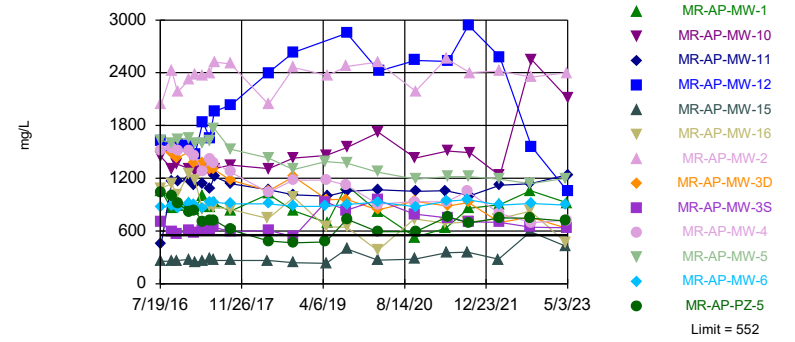


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.01865. Individual comparison alpha = 0.0007237 (1 of 2). Comparing 13 points to limit.

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:47 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S,...

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.01865. Individual comparison alpha = 0.0007237 (1 of 2). Comparing 13 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:47 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-2	MR-AP-MW-10
7/19/2016	2.86	0.15	0.496	0.195	0.527				
7/20/2016						2.36			
7/25/2016							0.0978 (J)	0.0922 (J)	3.36
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016	2.86	0.175		0.179	0.54		0.0625 (J)		
9/27/2016			0.514			2.14			3.18
9/28/2016								0.126	
10/25/2016									
10/31/2016	3.25	0.204		0.19	0.586				3.32
11/1/2016			0.571			2.21		0.0959 (J)	
11/2/2016							0.067 (J)		
12/13/2016									
1/9/2017	2.71	0.192	0.572	0.196	0.584				
1/10/2017									
1/11/2017						2.04	0.0588 (J)	0.0976 (J)	3.05
1/12/2017									
2/6/2017									
2/8/2017									
2/13/2017			0.565	0.187	0.567		0.0561 (J)		
2/14/2017	2.39	0.161						0.147	2.87
2/15/2017						2.12			
3/28/2017									
3/29/2017									
4/3/2017	1.86			0.192	0.527		0.0631 (J)		
4/4/2017		0.147	0.536			2.51		0.121	
4/6/2017									2.87
4/24/2017									
4/26/2017									
5/15/2017						2.54	0.0636 (J)		
5/16/2017	2.67	0.168	0.482	0.178	0.477			0.167	
5/17/2017									2.71
6/7/2017									
6/12/2017	2.81	0.18	0.478	0.181	0.491				
6/13/2017									2.67
6/14/2017						2.83	0.0603 (J)	0.159	
8/21/2017									
8/22/2017									
9/18/2017									
9/19/2017	3	0.192					0.0559 (J)		
9/20/2017			0.506	0.188	0.505			0.148	
9/21/2017						3.76			3.08
5/7/2018	2.83	0.258							
5/8/2018						5.61			
5/9/2018			0.433				0.0437 (J)	0.145	
5/10/2018				0.183	0.425				3.04
5/15/2018									
10/8/2018			0.503			6.35			3.46
10/9/2018	2.85	0.237		0.202	0.471		0.0559 (J)	0.15	

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-2	MR-AP-MW-10
10/16/2018									
10/17/2018									
2/20/2019									
3/6/2019									
4/16/2019									
4/22/2019				0.183 (J)					
4/23/2019									
4/24/2019	2.41	0.243							3.61
4/29/2019			0.444		0.407				
5/1/2019							<0.1015	0.24	
8/27/2019			0.495	0.209	0.443		0.0869 (J)	0.192	
8/28/2019	3.18	0.863				7.06			
8/29/2019									4.1
9/24/2019									
3/2/2020									
3/3/2020	1.29			0.217	0.422			0.167	
3/4/2020		0.285	0.431						
3/9/2020							0.0747 (J)		4.7
3/10/2020						7.52			
3/18/2020									
3/25/2020									
9/21/2020									
9/23/2020									
10/13/2020	2.62	0.375		0.271	0.492				
10/14/2020			0.46						
10/19/2020						7.42	0.0512 (J)		4.44
10/20/2020									
10/21/2020								0.316	
2/2/2021									
4/20/2021							0.0653 (J)		
4/21/2021	2.63								
4/26/2021		0.651	0.412					0.173	
4/28/2021									
5/3/2021									4.45
5/5/2021				0.281	0.451	8.01			
8/2/2021									
8/10/2021									
9/1/2021	2.16	0.705	0.46						
9/7/2021				0.276	0.499	7.19			
9/8/2021							0.0505 (J)		
9/14/2021								0.188	
9/15/2021									4.8
2/14/2022									
2/16/2022									
3/8/2022	2.13								
3/9/2022		0.445							
3/14/2022									
3/15/2022			0.423				0.0528 (J)		
3/16/2022				0.276	0.428			0.165	
3/17/2022						7.07			5.81
8/2/2022									
8/9/2022									

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-2	MR-AP-MW-10
9/19/2022				0.272	0.389		0.0597 (J)		
9/20/2022	2.77	1.78							
9/21/2022									
9/26/2022			0.36			4.96		0.153	7.39
3/22/2023									
3/27/2023									
4/19/2023	2.18	1.36							
4/25/2023									
5/2/2023			0.382	0.245	0.324		0.0572 (J)	0.216	
5/3/2023						5.38			6.84

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-PZ-5	MR-AP-MW-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	0.0282 (J)							
7/26/2016		0.434	0.873	0.835				
8/2/2016					0.1			
8/3/2016						0.0239 (J)		
9/20/2016					0.1			
9/21/2016						0.1		
9/26/2016								
9/27/2016	0.0253 (J)							
9/28/2016		0.454	0.857	0.807				
10/25/2016					0.1	0.1		
10/31/2016								
11/1/2016	0.0266 (J)			0.838				
11/2/2016		0.46	0.909					
12/13/2016					0.1	0.1		
1/9/2017				0.848				
1/10/2017			0.915					
1/11/2017								
1/12/2017	0.0268 (J)	0.471						
2/6/2017						0.1		
2/8/2017					0.1			
2/13/2017	0.0263 (J)	0.473		0.869				
2/14/2017			0.932					
2/15/2017								
3/28/2017						0.1		
3/29/2017					0.1			
4/3/2017		0.424	0.932	0.881				
4/4/2017	0.0252 (J)							
4/6/2017								
4/24/2017						0.1		
4/26/2017					0.1			
5/15/2017								
5/16/2017	0.0319 (J)			0.81				
5/17/2017		0.462	0.953					
6/7/2017					<0.1015	<0.1015		
6/12/2017		0.418	0.854	0.832				
6/13/2017								
6/14/2017	0.026 (J)							
8/21/2017						<0.1015		
8/22/2017					<0.1015			
9/18/2017		0.428	0.921	0.864				
9/19/2017	0.0253 (J)							
9/20/2017								
9/21/2017								
5/7/2018								
5/8/2018	<0.1015							
5/9/2018		0.406	0.851	0.878				
5/10/2018								
5/15/2018					<0.1015	<0.1015		
10/8/2018		0.42	0.833	0.905				
10/9/2018	0.0262 (J)							

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-PZ-5	MR-AP-MW-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
10/16/2018						<0.1015		
10/17/2018					<0.1015			
2/20/2019							0.0337 (J)	
3/6/2019								0.0619 (J)
4/16/2019					<0.1015	<0.1015		
4/22/2019								
4/23/2019		0.372	0.849	0.862				
4/24/2019								
4/29/2019								
5/1/2019	<0.1015							
8/27/2019								
8/28/2019	<0.1015		0.852	0.906				0.0879 (J)
8/29/2019		0.319						
9/24/2019						<0.1015	0.0532 (J)	
3/2/2020		0.328	0.851					
3/3/2020	0.0308 (J)			0.895				
3/4/2020								
3/9/2020								0.101
3/10/2020								
3/18/2020						<0.1015		
3/25/2020							0.0482 (J)	
9/21/2020						<0.1015		
9/23/2020							0.0478 (J)	
10/13/2020								0.0973 (J)
10/14/2020								
10/19/2020								
10/20/2020	0.0357 (J)			0.947				
10/21/2020		0.328	0.847					
2/2/2021						<0.1015	0.0396 (J)	
4/20/2021								
4/21/2021	<0.1015							
4/26/2021								
4/28/2021				0.923				0.0976 (J)
5/3/2021		0.271	0.864					
5/5/2021								
8/2/2021							0.0368 (J)	
8/10/2021						<0.1015		
9/1/2021				0.918				
9/7/2021								
9/8/2021		0.271	0.843					
9/14/2021	<0.1015							0.0892 (J)
9/15/2021								
2/14/2022							0.0386 (J)	
2/16/2022						<0.1015		
3/8/2022								
3/9/2022								
3/14/2022		0.245	0.864					
3/15/2022								
3/16/2022	0.0357 (J)			0.887				
3/17/2022								0.089 (J)
8/2/2022						<0.1015		
8/9/2022							0.0418 (J)	

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-PZ-5	MR-AP-MW-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
9/19/2022								
9/20/2022	0.0457 (J)	0.251	0.915					
9/21/2022				0.851				
9/26/2022								0.0869 (J)
3/22/2023							0.0379 (J)	
3/27/2023						<0.1015		
4/19/2023								
4/25/2023		0.249	0.961	0.865				
5/2/2023								0.0986 (J)
5/3/2023	0.0402 (J)							

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-3S	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-2
10/8/2018		245				174		164	
10/9/2018	242		211	3.78	38.2		94.1		272
10/16/2018									
10/17/2018									
2/20/2019									
3/6/2019									
4/16/2019									
4/22/2019				16.8					
4/23/2019									
4/24/2019			139		39			201	
4/29/2019	186	271							
5/1/2019							47.9		272
8/27/2019	189	252		9.68			165		251
8/28/2019			99.5		53.8	152			
8/29/2019								178	
9/24/2019									
3/2/2020									
3/3/2020	170		66.8	9.94					278
3/4/2020		210			39.3				
3/9/2020							126	222	
3/10/2020						138			
3/18/2020									
3/25/2020									
9/21/2020									
9/23/2020									
10/13/2020	162		96.9	6.81	41.4				
10/14/2020		194							
10/19/2020						115	32.6	149	
10/20/2020									
10/21/2020									212
2/2/2021									
4/20/2021							36.2		
4/21/2021			99.3						
4/26/2021		193			48.3 (RA)				252
4/28/2021									
5/3/2021								165	
5/5/2021	153			7.04		107 (RA)			
8/2/2021									
8/10/2021									
9/1/2021		213	130		47.8				
9/7/2021	158			6.69		128			
9/8/2021							78.8		
9/14/2021									226
9/15/2021								152	
2/14/2022									
2/16/2022									
3/8/2022			154						
3/9/2022					39.1				
3/14/2022									
3/15/2022		159					98.1		
3/16/2022	116			5.38					239
3/17/2022						102		76.4	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-3S	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-2
8/2/2022									
8/9/2022									
9/19/2022	145			4.9			182		
9/20/2022			142		84.599998				
9/21/2022									
9/26/2022		180				80.699997		184	208
3/22/2023									
3/27/2023									
4/19/2023			158		66.400002				
4/25/2023									
5/2/2023	94.5	146		8.78			130		251
5/3/2023						30.299999		118	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-PZ-5	MR-AP-MW-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	164							
7/26/2016		52.8	315	135				
8/2/2016					47.2			
8/3/2016						6.85		
9/20/2016					46.3			
9/21/2016						11.7		
9/26/2016								
9/27/2016	164							
9/28/2016		246.4	324	141				
10/25/2016					46.6	10.8		
10/31/2016								
11/1/2016	158			137				
11/2/2016		61.3	305					
12/13/2016					43.1	5.86		
1/9/2017				140				
1/10/2017			319					
1/11/2017								
1/12/2017	163	47.7						
2/6/2017						9.76		
2/8/2017					47.5			
2/13/2017	166	54		141				
2/14/2017			341					
2/15/2017								
3/28/2017						5.28		
3/29/2017					46.8			
4/3/2017		28.7	329	141				
4/4/2017	166							
4/6/2017								
4/24/2017						6.89		
4/26/2017					48.1			
5/15/2017								
5/16/2017	160			145				
5/17/2017		26.7	296					
6/7/2017					44.4	3.58		
6/12/2017		26.3	263	144				
6/13/2017								
6/14/2017	166							
8/21/2017						3.38		
8/22/2017					42.9			
9/18/2017		20.2	292	144				
9/19/2017	165							
9/20/2017								
9/21/2017								
3/27/2018	166	13.9	267	154				
3/28/2018								
5/7/2018								
5/8/2018	132							
5/9/2018		13.8	265	150				
5/10/2018								
5/15/2018					44.3	4.25		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-PZ-5	MR-AP-MW-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
8/2/2022						5.28		
8/9/2022							31.4	
9/19/2022								
9/20/2022	209	6.51	251					
9/21/2022				189				
9/26/2022								63.799999
3/22/2023							29.6	
3/27/2023						4.77		
4/19/2023								
4/25/2023		5.85	229	147				
5/2/2023								58
5/3/2023	231							

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-3S	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-2
10/8/2018		41				6.9		7.4	
10/9/2018	41		24	32	20		12		8
10/16/2018									
10/17/2018									
2/20/2019									
3/6/2019									
4/16/2019									
4/22/2019				242					
4/23/2019									
4/24/2019			11.9		18.3			7.66	
4/29/2019	40.7	42.4							
5/1/2019							15		5.04
8/27/2019	34.7	42.3		145			8.75		7.95
8/28/2019			10.8		19.3	7.27			
8/29/2019								6.65	
9/24/2019									
3/2/2020									
3/3/2020	29.1		5.33	177					8.59
3/4/2020		40.1			18.5				
3/9/2020							19.6	7.47	
3/10/2020						7.52			
3/18/2020									
3/25/2020									
9/21/2020									
9/23/2020									
10/13/2020	25.9		10	96.3	17.5				
10/14/2020		30.8							
10/19/2020						7.33	16	6.03	
10/20/2020									
10/21/2020									9.47
2/2/2021									
4/20/2021							12.9		
4/21/2021			10.3						
4/26/2021		24.8			17.9				9.31
4/28/2021									
5/3/2021								6.38	
5/5/2021	21			76.5		8.01			
8/2/2021									
8/10/2021									
9/1/2021		24.6	6.87		17.5				
9/7/2021	21.2			78.6		8.14			
9/8/2021							10.8		
9/14/2021									5.88
9/15/2021								6.39	
2/14/2022									
2/16/2022									
3/8/2022			7.81						
3/9/2022					17.6				
3/14/2022									
3/15/2022		19					10.4		
3/16/2022	15			79.4					6.88
3/17/2022						8.05		4.75	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-3S	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-2
8/2/2022									
8/9/2022									
9/19/2022	13.3			70.900002			9.01		
9/20/2022			11.4		17.700001				
9/21/2022									
9/26/2022		17.299999				7.51		8.6	5.2
3/22/2023									
3/27/2023									
4/19/2023			5.39		17.9				
4/25/2023									
5/2/2023	6.52	19.6		84.300003			9.27		4.85
5/3/2023						5.56		7.08	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-PZ-5	MR-AP-MW-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	8.3							
7/26/2016		30.5	39.1	24.8				
8/2/2016					2.91			
8/3/2016						3.21		
9/20/2016					2.94			
9/21/2016						2.95		
9/26/2016								
9/27/2016	7.94							
9/28/2016		31.1	40.9	24.9				
10/25/2016					2.94	3.03		
10/31/2016								
11/1/2016	7.32			26				
11/2/2016		30.2	44.1					
12/13/2016					2.93	3.21		
1/9/2017				25.1				
1/10/2017			45.2					
1/11/2017								
1/12/2017	6.29	29.8						
2/6/2017						3		
2/8/2017					2.85			
2/13/2017	9.1	33		28				
2/14/2017			44					
2/15/2017								
3/28/2017						3.3 (D)		
3/29/2017					3.4 (D)			
4/3/2017		32	48	29				
4/4/2017	7							
4/6/2017								
4/24/2017						3.8 (D)		
4/26/2017					3.7 (D)			
5/15/2017								
5/16/2017	7.1			30				
5/17/2017		37	53					
6/7/2017					3.3	3.5		
6/12/2017		34	53	31				
6/13/2017								
6/14/2017	7.9							
8/21/2017						3.6		
8/22/2017					3.4			
9/18/2017		36	45	29				
9/19/2017	6.8							
9/20/2017								
9/21/2017								
3/27/2018	5.7	33	45	32				
3/28/2018								
5/7/2018								
5/8/2018	7.3							
5/9/2018		31	45	32				
5/10/2018								
5/15/2018					3.2	3.3		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-PZ-5	MR-AP-MW-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
8/2/2022						4.35		
8/9/2022							3.09	
9/19/2022								
9/20/2022	7.52	22.200001	23.1					
9/21/2022				31.9				
9/26/2022								10
3/22/2023							2.8	
3/27/2023						4.17		
4/19/2023								
4/25/2023		17.1	22.200001	32.700001				
5/2/2023								21
5/3/2023	6.53							

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
7/19/2016	0.217 (J)	0.268 (J)	0.252 (J)	0.194 (J)	0.111 (J)				
7/20/2016						0.701			
7/25/2016							0.094 (J)	0.155 (J)	0.439
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016	0.192 (J)	0.213 (J)		0.158 (J)	0.069 (J)				
9/27/2016			0.209 (J)			0.597		0.097 (J)	0.336
9/28/2016							0.035 (J)		
10/25/2016									
10/31/2016	0.157 (J)	0.158 (J)		0.068 (J)	0.018 (J)				0.26 (J)
11/1/2016			0.163 (J)			0.502	<0.125	0.038 (J)	
11/2/2016									
12/13/2016									
1/9/2017	0.115 (J)	0.109 (J)	0.13 (J)	<0.125	<0.125				
1/10/2017									
1/11/2017						0.472	<0.125		0.21 (J)
1/12/2017								<0.125	
2/6/2017									
2/8/2017									
2/13/2017	0.27	0.29	0.28					0.13	
2/14/2017				0.14	0.1		0.05 (J)		0.34
2/15/2017						0.59			
3/28/2017									
3/29/2017									
4/3/2017	0.25	0.28		0.13					
4/4/2017			0.27		0.1	0.67	0.07 (J)	0.14	
4/6/2017									0.38
4/24/2017									
4/26/2017									
5/15/2017						0.63			
5/16/2017	0.24	0.3	0.28	0.13	0.1		0.07 (J)	0.14	
5/17/2017									0.33
6/7/2017									
6/12/2017	0.26	0.29	0.27	0.14	0.1				
6/13/2017									0.34
6/14/2017						0.63	0.06 (J)	0.14	
8/21/2017									
8/22/2017									
9/18/2017									
9/19/2017				0.16	0.12			0.16	
9/20/2017	0.26	0.35	0.31				0.12		
9/21/2017						0.66			0.43
1/29/2018	0.31	0.35	0.28						
1/30/2018						0.69			
1/31/2018					0.1				0.42
2/1/2018				0.12			0.1	0.12	
2/19/2018									
2/20/2018									
5/7/2018				0.16	0.11				

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
5/8/2018						0.65		0.13	
5/9/2018			0.28				0.13		
5/10/2018	0.31	0.37							0.42
5/15/2018									
10/8/2018			0.32			0.85			0.49
10/9/2018	0.33	0.39		0.18	0.13		0.1	0.15	
10/16/2018									
10/17/2018									
2/20/2019									
3/6/2019									
4/16/2019									
4/22/2019	0.335								
4/23/2019									
4/24/2019				0.225	0.133				0.433
4/29/2019		0.343	0.226						
5/1/2019							0.108	0.118	
8/27/2019	0.294	0.361	0.237				0.19		
8/28/2019				0.29	0.0974 (J)	0.916		0.13	
8/29/2019									0.445
9/24/2019									
3/2/2020									
3/3/2020	0.286	0.397		0.179			0.262	0.134	
3/4/2020			0.221		0.111				
3/9/2020									0.517
3/10/2020						0.929			
3/18/2020									
3/25/2020									
9/21/2020									
9/23/2020									
10/13/2020	0.311	0.362		0.145	0.125				
10/14/2020			0.251						
10/19/2020						0.978			0.608
10/20/2020								0.126	
10/21/2020							0.236		
2/2/2021									
4/20/2021									
4/21/2021				0.173				0.111	
4/26/2021			0.204		0.117		0.406		
4/28/2021									
5/3/2021									0.599
5/5/2021	0.291	0.351				0.958			
8/2/2021									
8/10/2021									
9/1/2021			0.281	0.14	0.118				
9/7/2021	0.361	0.433				0.843			
9/8/2021									
9/14/2021							0.24	0.136	
9/15/2021									0.727
2/14/2022									
2/16/2022									
3/8/2022				0.155					
3/9/2022					0.103 (J)				

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
3/14/2022									
3/15/2022			0.154						
3/16/2022	0.309	0.388					0.268	0.107 (J)	
3/17/2022						1.21			1.86
8/2/2022									
8/9/2022									
9/19/2022	0.304	0.341							
9/20/2022				0.145	<0.125			0.0923 (J)	
9/21/2022									
9/26/2022			0.22			0.989	0.211		1.12
3/22/2023									
3/27/2023									
4/19/2023				0.16	0.119 (J)				
4/25/2023									
5/2/2023	0.311	0.348	0.17				0.321		
5/3/2023						1.18		0.172	0.902

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-5	MR-AP-MW-6	MR-AP-PZ-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	0.134 (J)							
7/26/2016		0.296 (J)	0.108 (J)	1.05				
8/2/2016					0.161 (J)			
8/3/2016						0.125 (J)		
9/20/2016					0.122 (J)			
9/21/2016						0.098 (J)		
9/26/2016	0.061 (J)							
9/27/2016								
9/28/2016		0.224 (J)	0.054 (J)	0.799				
10/25/2016					0.058 (J)	0.025 (J)		
10/31/2016								
11/1/2016			<0.125					
11/2/2016	0.024 (J)	0.164 (J)		0.627				
12/13/2016					0.072 (J)	0.045 (J)		
1/9/2017			<0.125					
1/10/2017		0.114 (J)						
1/11/2017	<0.125							
1/12/2017				0.609				
2/6/2017						0.1 (D)		
2/8/2017					0.16 (D)			
2/13/2017	0.13		0.08 (J)	0.88				
2/14/2017		0.31						
2/15/2017								
3/28/2017						0.08 (JD)		
3/29/2017					0.14 (D)			
4/3/2017	0.15	0.3	0.07 (J)	1.1				
4/4/2017								
4/6/2017								
4/24/2017						0.09 (JD)		
4/26/2017					0.16 (D)			
5/15/2017	0.14							
5/16/2017			0.09 (J)					
5/17/2017		0.29		1				
6/7/2017					0.15	0.08 (J)		
6/12/2017		0.29	0.1	1.1				
6/13/2017								
6/14/2017	0.15							
8/21/2017						0.08 (J)		
8/22/2017					0.18			
9/18/2017		0.37	0.11	1.1				
9/19/2017	0.17							
9/20/2017								
9/21/2017								
1/29/2018								
1/30/2018								
1/31/2018								
2/1/2018	0.15	0.35	0.1	1				
2/19/2018						0.08 (J)		
2/20/2018					0.17			
5/7/2018								

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-5	MR-AP-MW-6	MR-AP-PZ-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
3/14/2022		0.405		2.28				
3/15/2022	0.142							
3/16/2022			0.155					
3/17/2022								0.127
8/2/2022						0.0815 (J)		
8/9/2022							0.245	
9/19/2022	0.164							
9/20/2022		0.384		2.39				
9/21/2022			<0.125					
9/26/2022								0.158
3/22/2023							0.198	
3/27/2023						0.112 (J)		
4/19/2023								
4/25/2023		0.424	0.0863 (J)	2.23				
5/2/2023	0.181							0.223
5/3/2023								

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-16	MR-AP-MW-3D	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-10	MR-AP-MW-11
10/8/2018	650					1500		750	
10/9/2018		130	580	700	76		1500		450
10/16/2018									
10/17/2018									
2/20/2019									
3/6/2019									
4/16/2019									
4/22/2019		249							
4/23/2019									
4/24/2019			385		91.9			950	
4/29/2019	758			484					
5/1/2019							1580		549
8/27/2019	670	248		529			1570		
8/28/2019			384		227	1780			605
8/29/2019								847	
9/24/2019									
3/2/2020									
3/3/2020		298	198	488			1690		618
3/4/2020	604				93.9				
3/9/2020								1010	
3/10/2020						1580			
3/18/2020									
3/25/2020									
9/21/2020									
9/23/2020									
10/13/2020		236	366	473	107				
10/14/2020	527								
10/19/2020						1630		781	
10/20/2020									575
10/21/2020							1360		
2/2/2021									
4/20/2021									
4/21/2021			392						559
4/26/2021	554				157		1580		
4/28/2021									
5/3/2021								917	
5/5/2021		224		501		1510			
8/2/2021									
8/10/2021									
9/1/2021	637		427		163				
9/7/2021		243		513		1850			
9/8/2021									
9/14/2021							1690		588
9/15/2021								910	
2/14/2022									
2/16/2022									
3/8/2022			530						
3/9/2022					123				
3/14/2022									
3/15/2022	475								
3/16/2022		227		352			1630		707
3/17/2022						1730		735	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-16	MR-AP-MW-3D	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-10	MR-AP-MW-11
8/2/2022									
8/9/2022									
9/19/2022		159		352					
9/20/2022			503		352				678
9/21/2022									
9/26/2022	393					845	1570	1560	
3/22/2023									
3/27/2023									
4/19/2023			553		281				
4/25/2023									
5/2/2023	368	161		264			1570		
5/3/2023						513		1250	716

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-6	MR-AP-MW-5	MR-AP-PZ-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	585							
7/26/2016		532	1040	487				
8/2/2016					12			
8/3/2016						4.2		
9/20/2016					11.2			
9/21/2016						4.27		
9/26/2016	480							
9/27/2016								
9/28/2016		540	1020	422				
10/25/2016					10.1	2.78		
10/31/2016								
11/1/2016		521						
11/2/2016	462		1000	345				
12/13/2016					11.4	3.18		
1/9/2017		543						
1/10/2017			995					
1/11/2017	515							
1/12/2017				281				
2/6/2017						3.74		
2/8/2017					10.9			
2/14/2017			950					
2/15/2017								
3/28/2017						3.4 (JD)		
3/29/2017		540			11 (D)			
3/30/2017	470			160				
4/3/2017	560	550	1100	190				
4/4/2017								
4/6/2017								
4/24/2017						2.7 (JD)		
4/26/2017					11 (D)			
5/15/2017	410							
5/16/2017		490						
5/17/2017			930	190				
6/7/2017					11	2.7 (J)		
6/12/2017		560	940	150				
6/13/2017								
6/14/2017	450							
8/21/2017						3.9 (J)		
8/22/2017					11			
9/18/2017		510	830	86				
9/19/2017	430							
9/20/2017								
9/21/2017								
3/27/2018	430	510	780	31				
3/28/2018								
5/7/2018								
5/8/2018								
5/9/2018	460	500	790	29				
5/10/2018								
5/15/2018					11	2.5 (J)		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-2	MR-AP-MW-10
7/19/2016	1080	255	1520	704	1530				
7/20/2016						1620			
7/25/2016							1060	2040	1440
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016	1140	259		594	1480		852		
9/27/2016			1540			1560			1310
9/28/2016								2420	
10/25/2016									
10/31/2016	1010	265		572	1430				1360
11/1/2016			1510			1580		2180	
11/2/2016							888		
12/13/2016									
1/9/2017	1250	276	1510	608	1500				
1/10/2017									
1/11/2017						1570	920	2320	1310
1/12/2017									
2/6/2017									
2/8/2017									
2/13/2017			1460	584	1380		848		
2/14/2017	1180	246						2380	1270
2/15/2017						1470			
3/28/2017									
3/29/2017									
4/3/2017	846			606	1370		1000		
4/4/2017		257	1270			1840		2360	
4/6/2017									1320
4/24/2017									
4/26/2017									
5/15/2017						1660	870		
5/16/2017	880	283	1420	608	1300			2400	
5/17/2017									1280
6/7/2017									
6/12/2017	872	266	1380	644	1300				
6/13/2017									1310
6/14/2017						1960	910	2520	
8/21/2017									
8/22/2017									
9/18/2017									
9/19/2017	848	266					824		
9/20/2017			1270	592	1180			2500	
9/21/2017						2030			1350
5/7/2018	742	264							
5/8/2018						2400			
5/9/2018			1040				1020	2040	
5/10/2018				606	1060				1310
5/15/2018									
10/8/2018			1180 (D)			2630 (D)			1430 (D)
10/9/2018	982 (D)	239 (D)		536 (D)	1220 (D)		830 (D)	2460 (D)	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-2	MR-AP-MW-10
9/19/2022				644	756		1060		
9/20/2022	826	594							
9/21/2022									
9/26/2022			694			1560		2350	2550
3/22/2023									
3/27/2023									
4/19/2023	472	428							
4/25/2023									
5/2/2023			724	638	630		920	2400	
5/3/2023						1050			2110

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-PZ-5	MR-AP-MW-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	456							
7/26/2016		1040	1630	868				
8/2/2016					221			
8/3/2016						113		
9/20/2016					221			
9/21/2016						128		
9/26/2016								
9/27/2016	1170							
9/28/2016		1000	1600	884				
10/25/2016					226	121		
10/31/2016								
11/1/2016	1160			862				
11/2/2016		920	1640					
12/13/2016					211	101		
1/9/2017				918				
1/10/2017			1660					
1/11/2017								
1/12/2017	1180	812						
2/6/2017						108		
2/8/2017					212			
2/13/2017	1130	832		896				
2/14/2017			1600					
2/15/2017								
3/28/2017						91		
3/29/2017					217			
4/3/2017		710	1600	852				
4/4/2017	1140							
4/6/2017								
4/24/2017						89.3		
4/26/2017					202			
5/15/2017								
5/16/2017	1080			924				
5/17/2017		718	1630					
6/7/2017					218	84		
6/12/2017		724	1770	928				
6/13/2017								
6/14/2017	1220							
8/21/2017						91.3		
8/22/2017					224			
9/18/2017		616	1530	908				
9/19/2017	1140							
9/20/2017								
9/21/2017								
5/7/2018								
5/8/2018	1070							
5/9/2018		486	1430	908				
5/10/2018								
5/15/2018					209	94.7		
10/8/2018		464 (D)	1300 (D)	882 (D)				
10/9/2018	1010 (D)							

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/22/2023 7:49 AM View: Appendix III - Interwell
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-PZ-5	MR-AP-MW-5	MR-AP-MW-6	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
9/19/2022								
9/20/2022	1140	746	1140					
9/21/2022				914				
9/26/2022								459
3/22/2023							344	
3/27/2023						100		
4/19/2023								
4/25/2023		712	1200	896				
5/2/2023								552
5/3/2023	1240							

FIGURE F.

Trend Tests - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:54 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0.0002361	97	81	Yes	20	65	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-10	0.4412	115	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-12	0.9402	107	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-15	0.06903	139	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-2	0.01298	109	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-221 (bg)	-0.01548	-19	-18	Yes	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3D	-0.02718	-115	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3S	0.01214	98	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-4	-0.02278	-127	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-6	0.01273	86	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-PZ-5	-0.03554	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-15	1.249	127	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-16	-12.98	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-3D	-26.36	-177	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-4	-25.16	-174	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-5	-14.33	-131	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-6	4.73	141	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1849	113	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3S	9.72	134	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-5	-2.931	-99	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-6	1.556	148	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-10	0.08583	156	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-12	0.08774	133	81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-2	0.03571	127	87	Yes	21	9.524	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3D	0.02561	116	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3S	0.01818	119	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-5	0.02684	131	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2706	159	87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-10	0.06711	157	92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-4	0.0386	114	98	Yes	23	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-12	158.8	91	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-15	12.69	133	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-16	-38.5	-95	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	-81.4	-168	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-4	-88.28	-174	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-5	-42.97	-128	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	-130.8	-169	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	-128.5	-161	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	-84.12	-140	-81	Yes	20	0	n/a	n/a	0.01	NP

Trend Tests - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:54 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron, total (mg/L)	GS-AP-MW-13 (bg)	5.9e-10	0	38	No	12	41.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-17V (bg)	-0.002946	-10	-25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0.0002361	97	81	Yes	20	65	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-10	0.4412	115	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-12	0.9402	107	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-15	0.06903	139	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-16	-0.06903	-57	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-2	0.01298	109	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-21 (bg)	0.0005035	4	25	No	9	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22D (bg)	-0.01106	-4	-18	No	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22I (bg)	-0.01548	-19	-18	Yes	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22S (bg)	-0.0006685	-1	-18	No	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23 (bg)	-0.01668	-9	-18	No	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23A (bg)	-0.02678	-17	-18	No	7	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3D	-0.02718	-115	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3S	0.01214	98	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-4	-0.02278	-127	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-5	-0.002017	-24	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-6	0.01273	86	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-PZ-5	-0.03554	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-13 (bg)	-2.607	-32	-38	No	12	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-17V (bg)	0.1233	2	25	No	9	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-8 (bg)	-0.414	-55	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-1	-6.554	-41	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-10	6.703	71	87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-11	1.62	23	87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-15	1.249	127	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-16	-12.98	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-2	2.846	53	87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-21 (bg)	0.9182	4	25	No	9	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22D (bg)	6.273	5	18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22I (bg)	-0.9894	-17	-18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22S (bg)	28.63	15	18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23 (bg)	5.19	6	18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23A (bg)	6.465	12	18	No	7	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-3D	-26.36	-177	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-4	-25.16	-174	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-5	-14.33	-131	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-6	4.73	141	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-13 (bg)	0.1178	10	38	No	12	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-17V (bg)	-0.2328	-22	-25	No	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1849	113	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-21 (bg)	0.5809	7	25	No	9	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22D (bg)	308.1	9	18	No	7	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22I (bg)	-35.95	-11	-18	No	7	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22S (bg)	-1.337	-4	-18	No	7	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23 (bg)	62.86	9	18	No	7	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23A (bg)	31.29	8	18	No	7	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3S	9.72	134	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-5	-2.931	-99	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-6	1.556	148	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-17V (bg)	-0.001533	-5	-25	No	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-8 (bg)	0.002916	39	87	No	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-10	0.08583	156	87	Yes	21	0	n/a	n/a	0.01	NP

Trend Tests - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:54 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	MR-AP-MW-12	0.08774	133	81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-2	0.03571	127	87	Yes	21	9.524	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-21 (bg)	-0.009852	-6	-25	No	9	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22D (bg)	0.01582	2	18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22I (bg)	-0.03429	-13	-18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22S (bg)	-0.07253	-13	-18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23 (bg)	-0.008649	-9	-18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23A (bg)	-0.002005	-2	-18	No	7	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3D	0.02561	116	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-3S	0.01818	119	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-5	0.02684	131	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2706	159	87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-13 (bg)	-0.05825	-34	-43	No	13	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-17V (bg)	-0.03831	-15	-25	No	9	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-8 (bg)	-0.02608	-65	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-10	0.06711	157	92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-12	-0.009366	-22	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-21 (bg)	0.04529	8	25	No	9	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22D (bg)	0.141	9	18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22I (bg)	0.2644	17	18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22S (bg)	0.0711	5	18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-23 (bg)	-0.01772	-6	-18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-23A (bg)	-0.01872	-5	-18	No	7	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-4	0.0386	114	98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-5	0.004042	21	92	No	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-13 (bg)	0.01849	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-17V (bg)	-1.088	-18	-25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-8 (bg)	0.1674	43	81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-1	-20.26	-49	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-10	47.78	85	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-11	-1.614	-11	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-12	158.8	91	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-15	12.69	133	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-16	-38.5	-95	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-2	13.04	36	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-21 (bg)	6.468	22	25	No	9	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22D (bg)	70.02	17	18	No	7	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22I (bg)	-5.109	-7	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22S (bg)	12.81	5	18	No	7	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23 (bg)	0.32	5	18	No	7	14.29	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23A (bg)	15.88	17	18	No	7	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	-81.4	-168	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3S	10.46	54	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-4	-88.28	-174	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-5	-42.97	-128	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-6	5.614	39	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-13 (bg)	-7.182	-29	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-17V (bg)	-3.729	-10	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-8 (bg)	-1.48	-32	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	-10.78	-20	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	48.21	79	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	-7.237	-25	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	196.4	66	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	17.27	44	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-21 (bg)	17.6	12	25	No	9	0	n/a	n/a	0.01	NP

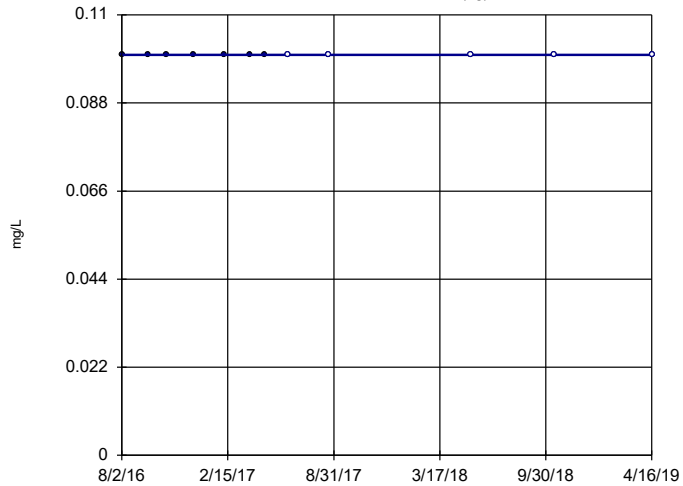
Trend Tests - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/22/2023, 7:54 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22D (bg)	241.6	5	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22I (bg)	-91.8	-17	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22S (bg)	48.13	7	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23 (bg)	44.51	7	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23A (bg)	149	11	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	-130.8	-169	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	17.17	49	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	-128.5	-161	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	-84.12	-140	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	4.811	45	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	-33.87	-61	-81	No	20	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GS-AP-MW-13 (bg)

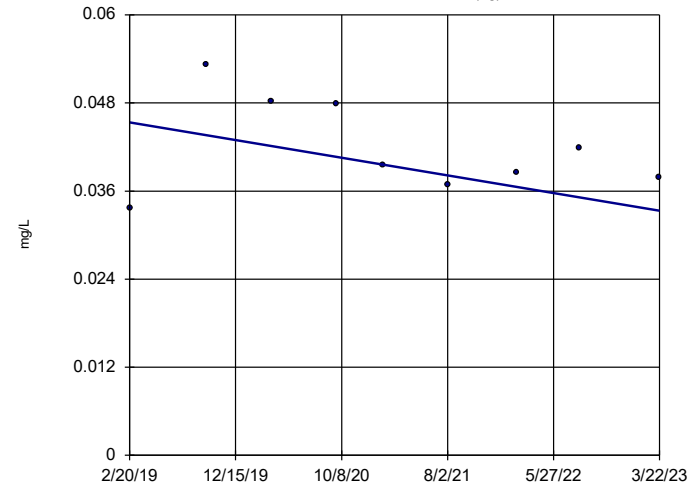


n = 12
Slope = 5.9e-10
units per year.
Mann-Kendall
statistic = 0
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

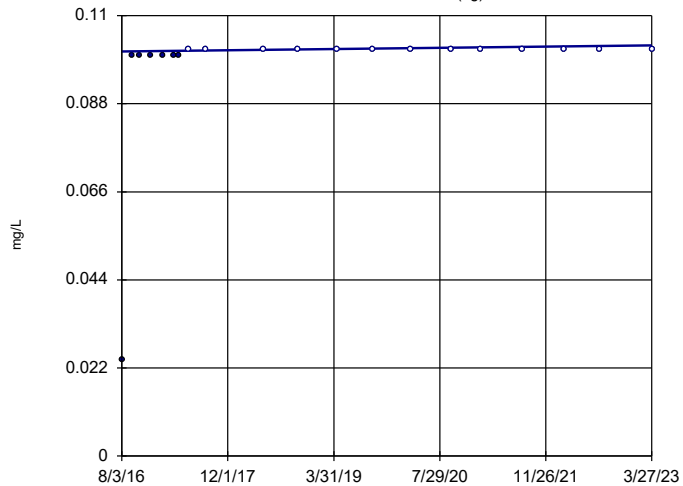


n = 9
Slope = -0.002946
units per year.
Mann-Kendall
statistic = -10
critical = -25
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

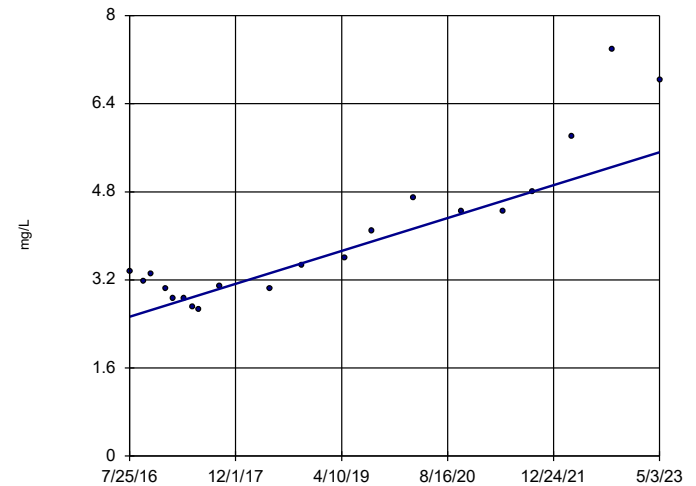


n = 20
Slope = 0.0002361
units per year.
Mann-Kendall
statistic = 97
critical = 81
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-10

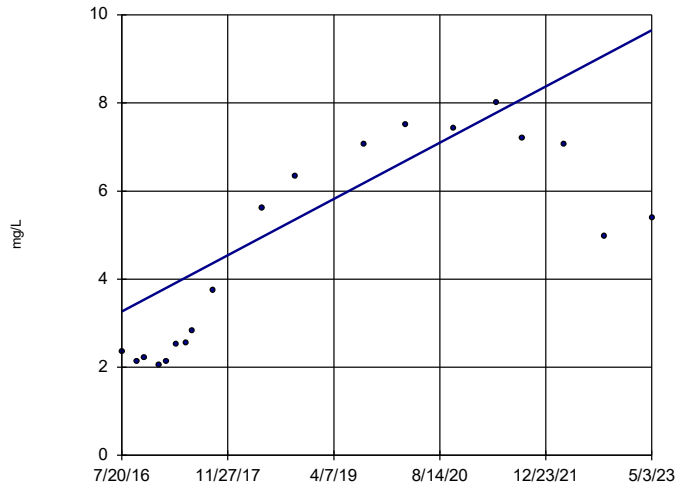


n = 20
Slope = 0.4412
units per year.
Mann-Kendall
statistic = 115
critical = 81
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-12

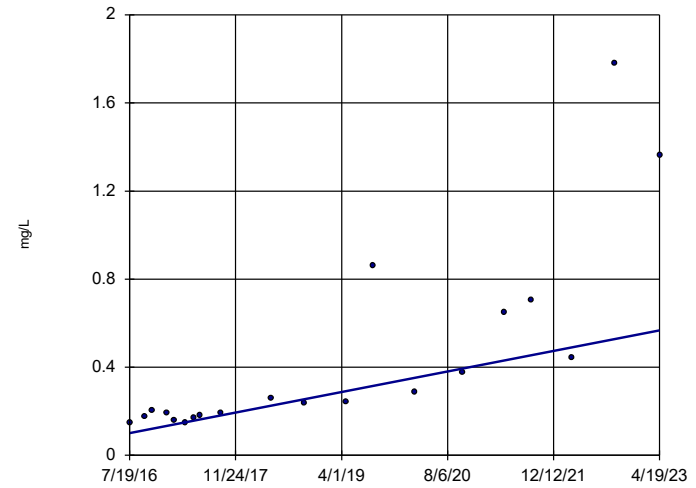


n = 19
 Slope = 0.9402
 units per year.
 Mann-Kendall
 statistic = 107
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-15

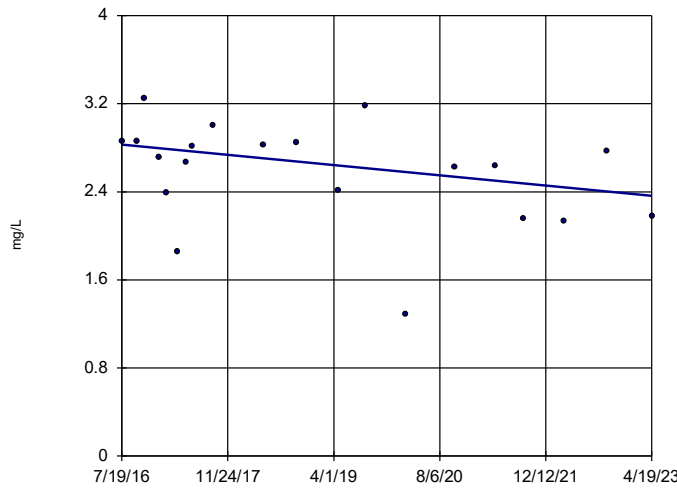


n = 20
 Slope = 0.06903
 units per year.
 Mann-Kendall
 statistic = 139
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-16

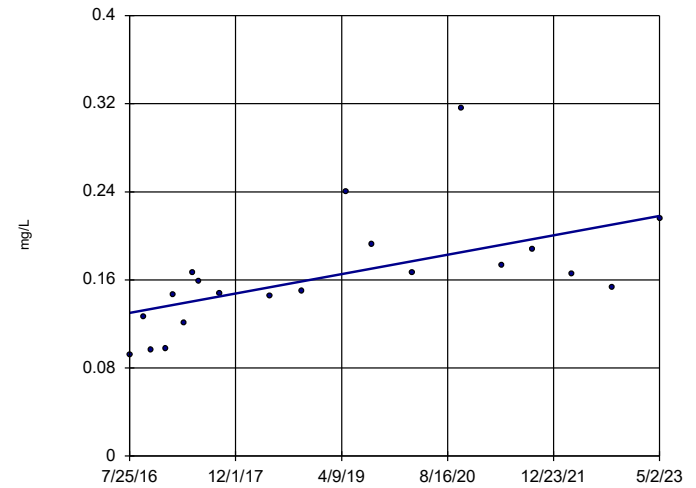


n = 20
 Slope = -0.06903
 units per year.
 Mann-Kendall
 statistic = -57
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-2

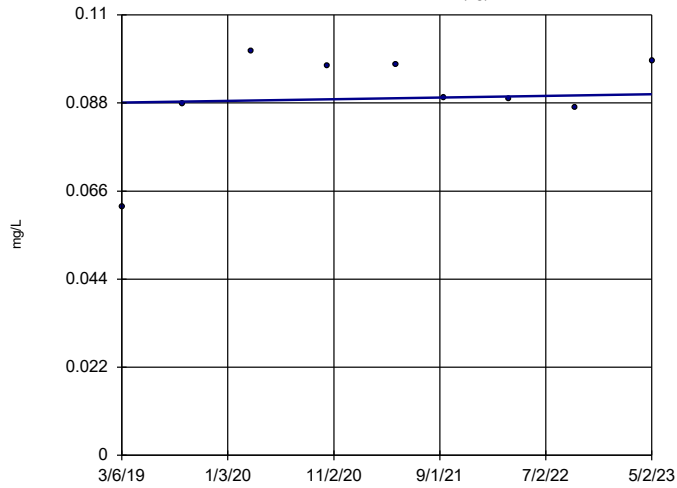


n = 20
 Slope = 0.01298
 units per year.
 Mann-Kendall
 statistic = 109
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

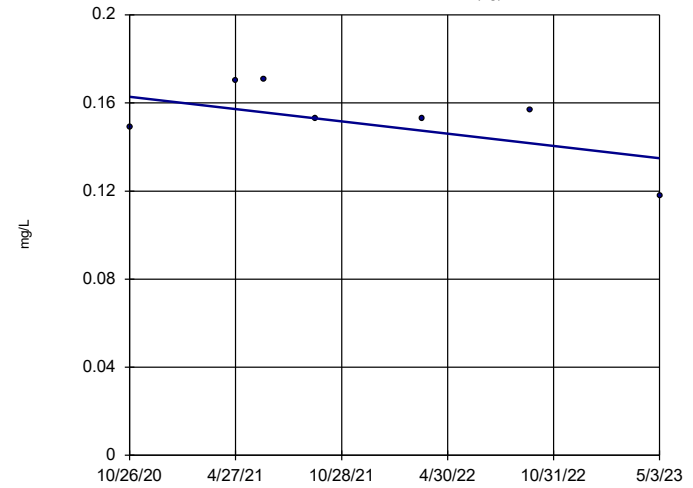


n = 9
 Slope = 0.0005035 units per year.
 Mann-Kendall statistic = 4
 critical = 25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22D (bg)

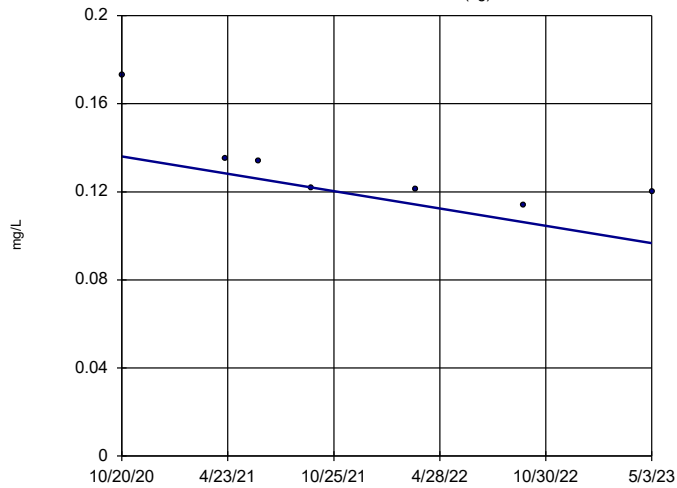


n = 7
 Slope = -0.01106 units per year.
 Mann-Kendall statistic = -4
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22I (bg)

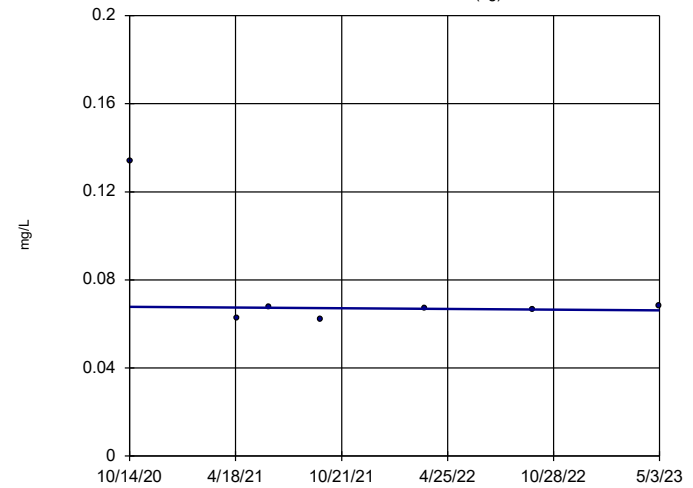


n = 7
 Slope = -0.01548 units per year.
 Mann-Kendall statistic = -19
 critical = -18
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

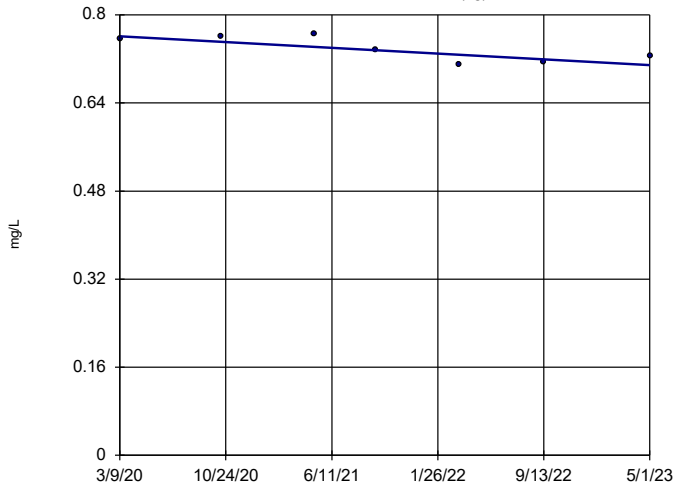


n = 7
 Slope = -0.0006885 units per year.
 Mann-Kendall statistic = -1
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

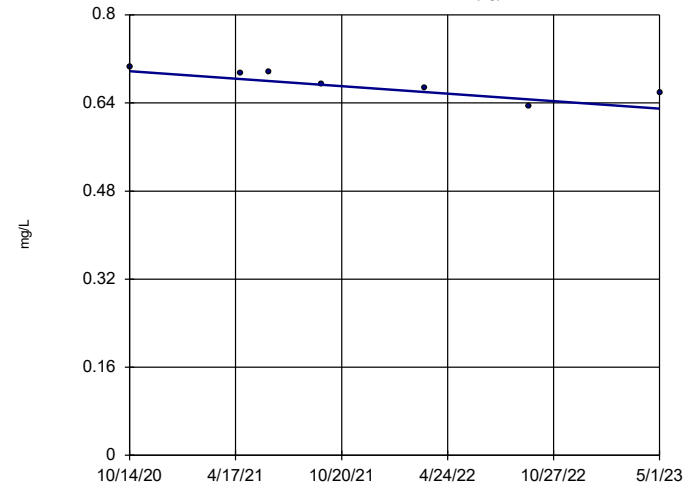


n = 7
 Slope = -0.01668
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

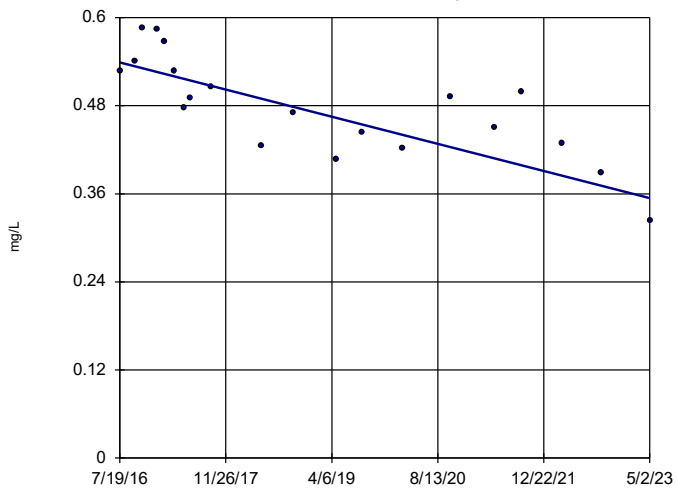


n = 7
 Slope = -0.02678
 units per year.
 Mann-Kendall
 statistic = -17
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

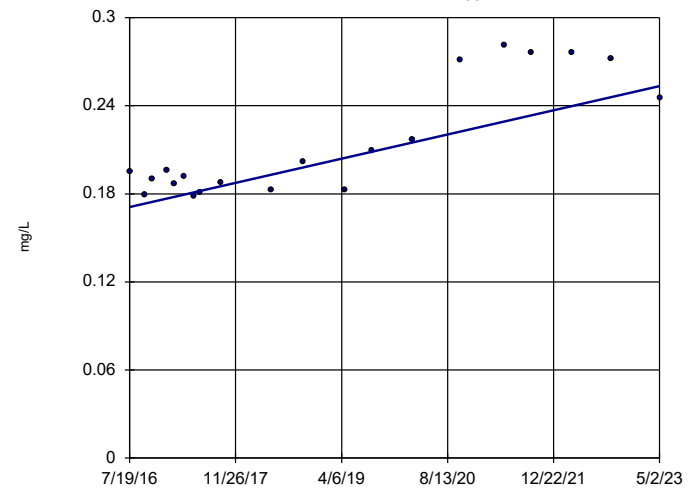


n = 20
 Slope = -0.02718
 units per year.
 Mann-Kendall
 statistic = -115
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3S

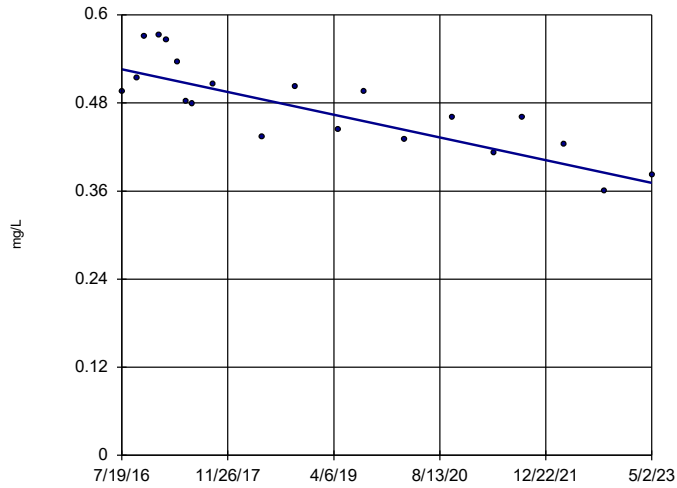


n = 20
 Slope = 0.01214
 units per year.
 Mann-Kendall
 statistic = 98
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

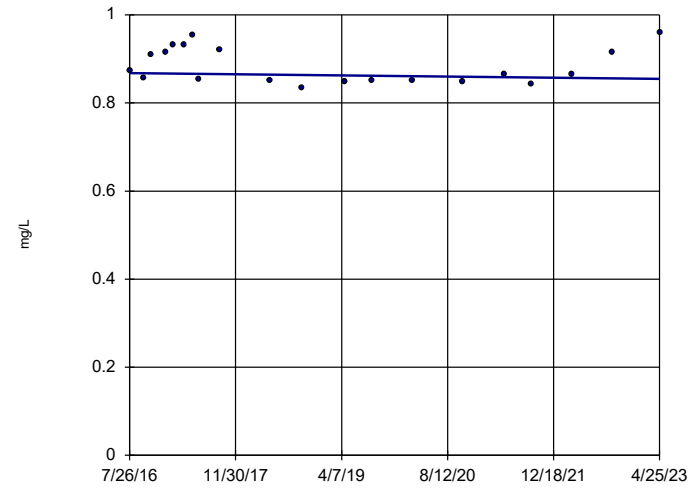


n = 20
 Slope = -0.02278
 units per year.
 Mann-Kendall
 statistic = -127
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

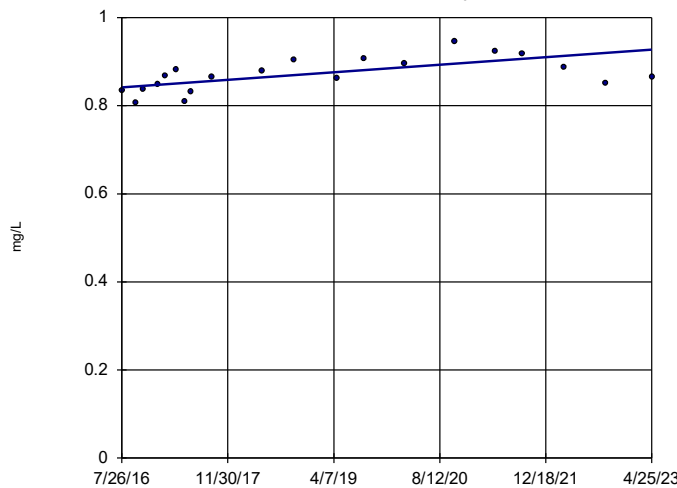


n = 20
 Slope = -0.002017
 units per year.
 Mann-Kendall
 statistic = -24
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-6

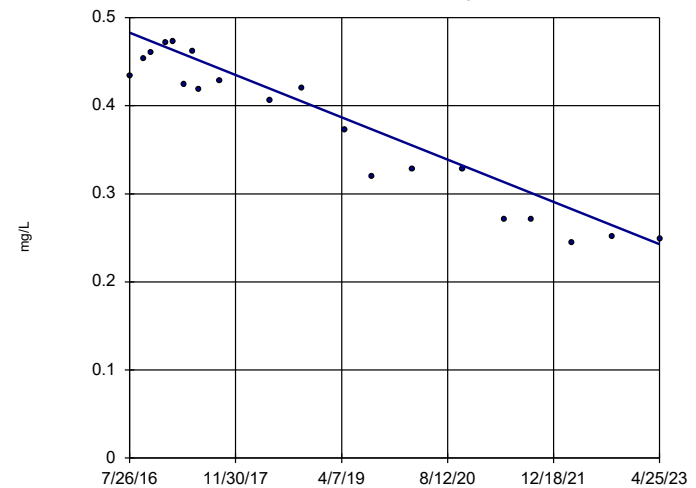


n = 20
 Slope = 0.01273
 units per year.
 Mann-Kendall
 statistic = 86
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-PZ-5

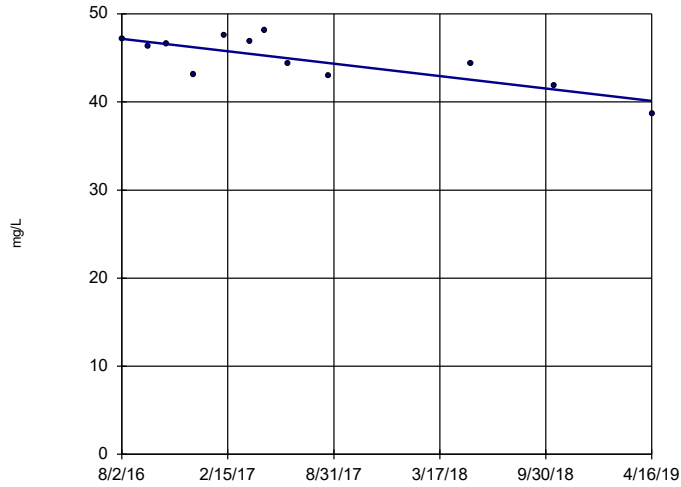


n = 20
 Slope = -0.03554
 units per year.
 Mann-Kendall
 statistic = -144
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/22/2023 7:51 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

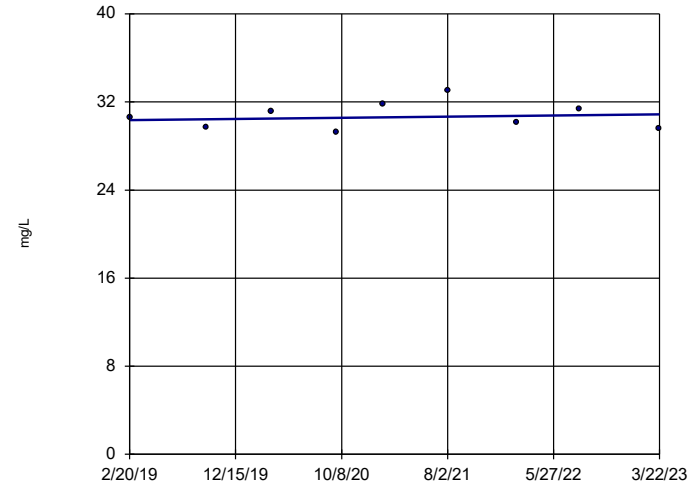


n = 12
 Slope = -2.607 units per year.
 Mann-Kendall statistic = -32
 critical = -38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

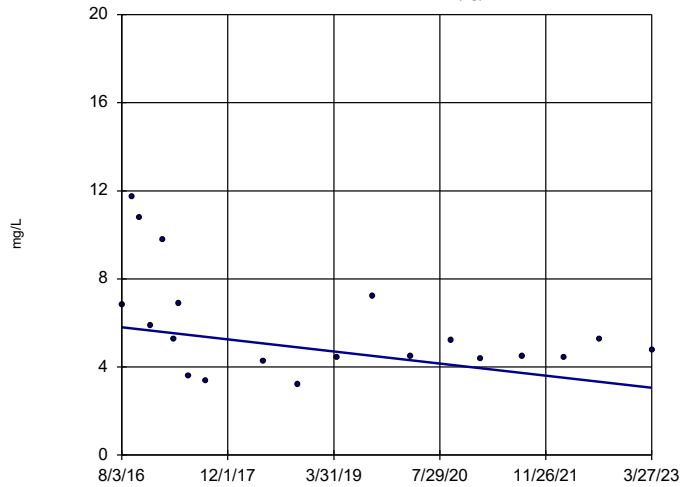


n = 9
 Slope = 0.1233 units per year.
 Mann-Kendall statistic = 2
 critical = 25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

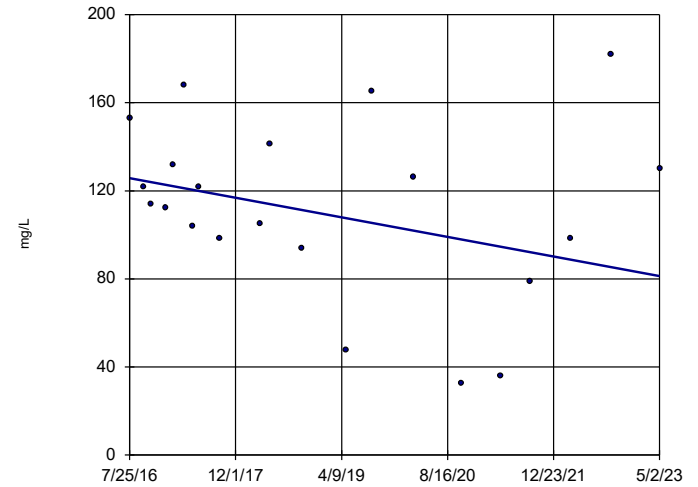


n = 20
 Slope = -0.414 units per year.
 Mann-Kendall statistic = -55
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-1

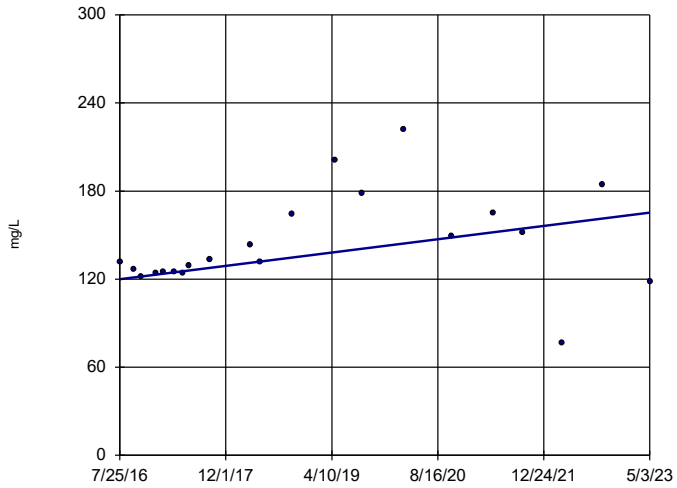


n = 21
 Slope = -6.554 units per year.
 Mann-Kendall statistic = -41
 critical = -87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

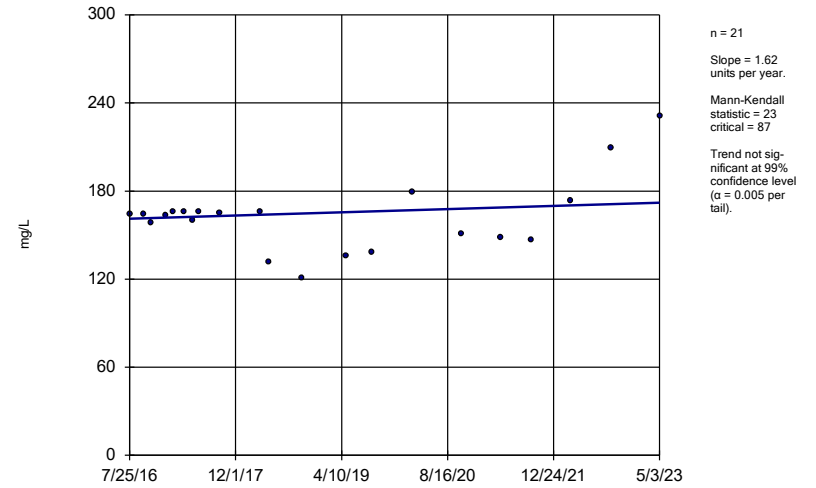
MR-AP-MW-10



Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

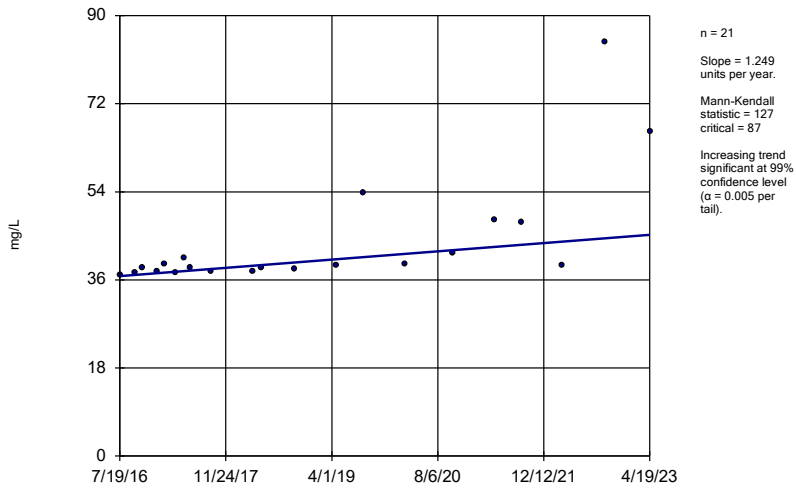
MR-AP-MW-11



Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

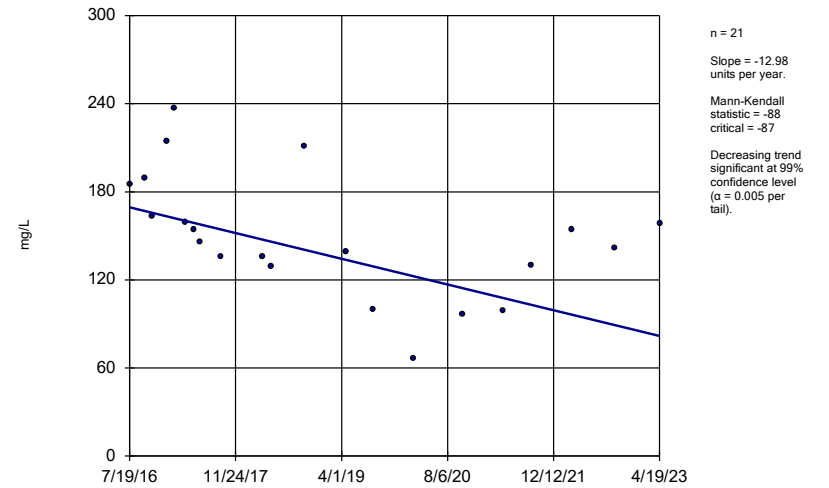
MR-AP-MW-15



Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

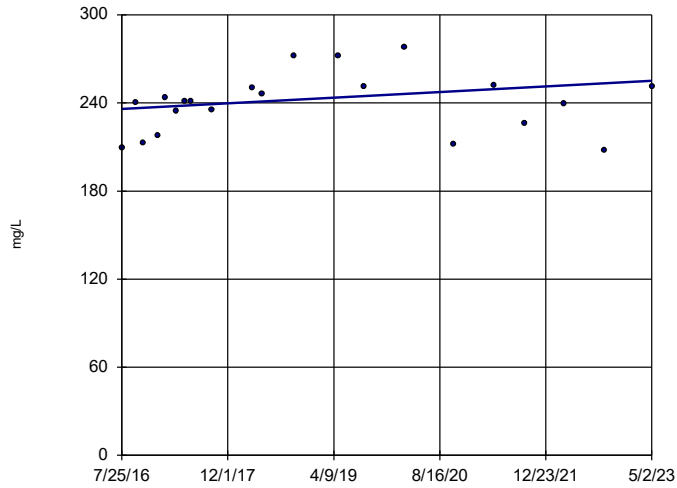
MR-AP-MW-16



Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-2

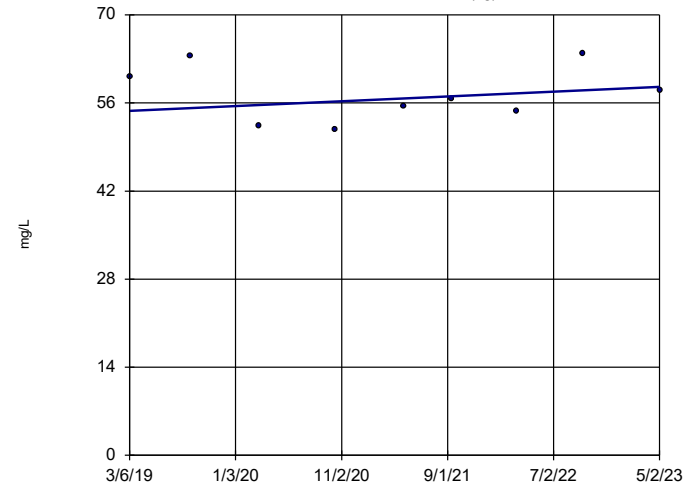


n = 21
 Slope = 2.846 units per year.
 Mann-Kendall statistic = 53
 critical = 87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

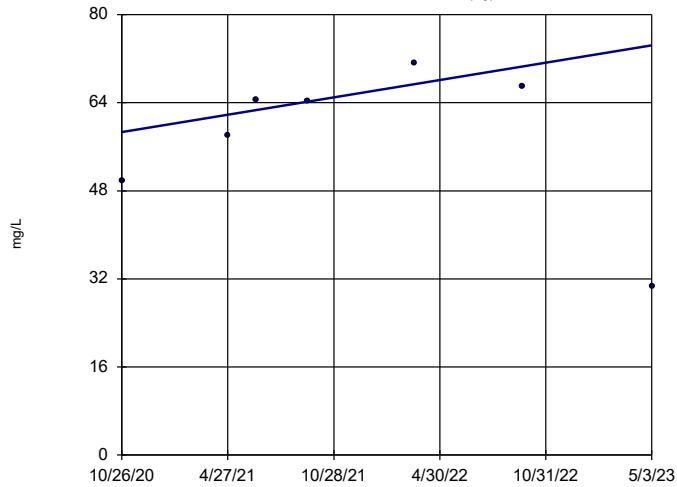


n = 9
 Slope = 0.9182 units per year.
 Mann-Kendall statistic = 4
 critical = 25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22D (bg)

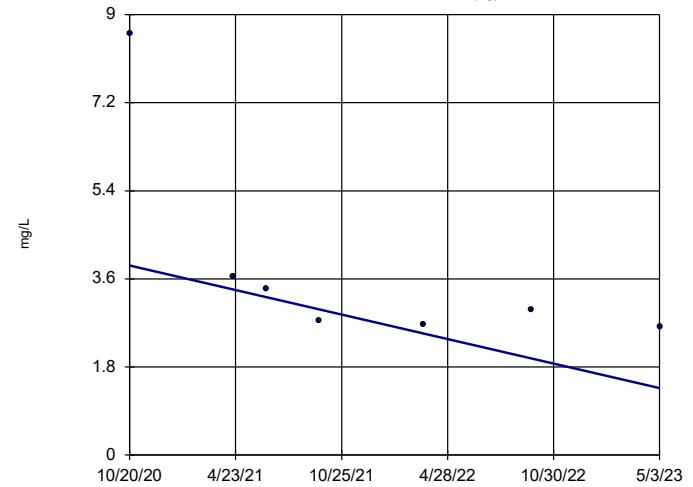


n = 7
 Slope = 6.273 units per year.
 Mann-Kendall statistic = 5
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22I (bg)

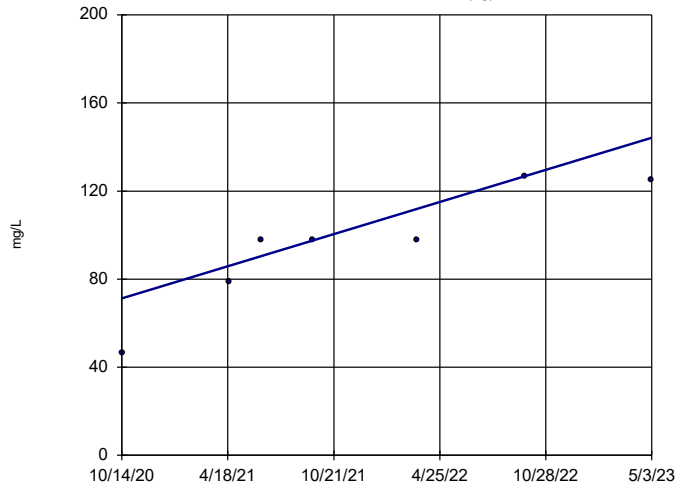


n = 7
 Slope = -0.9894 units per year.
 Mann-Kendall statistic = -17
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

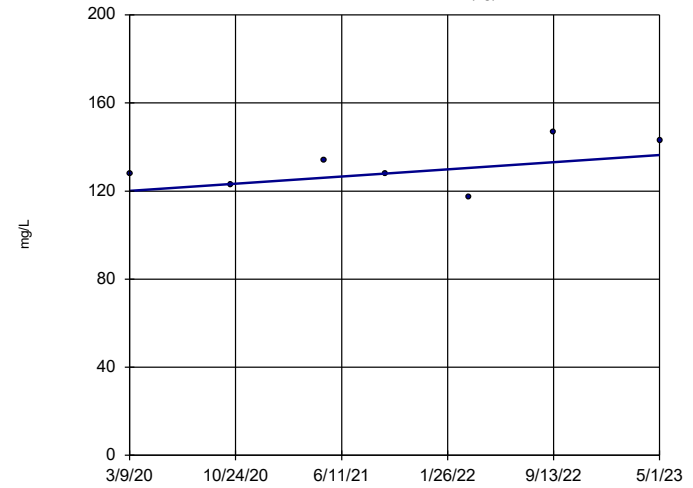


n = 7
 Slope = 28.63
 units per year.
 Mann-Kendall
 statistic = 15
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

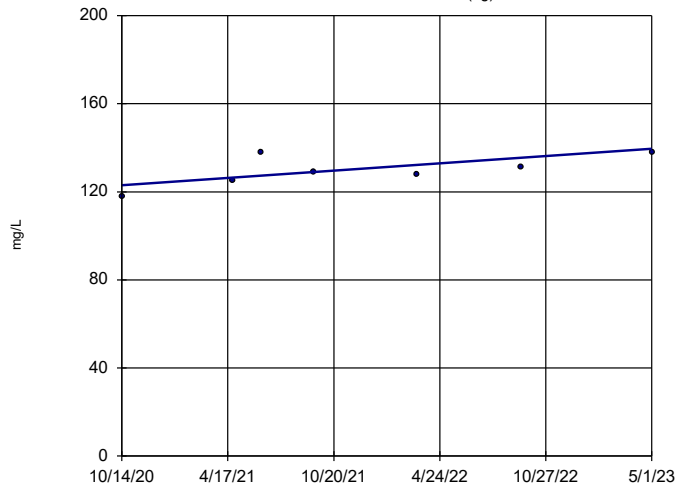


n = 7
 Slope = 5.19
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

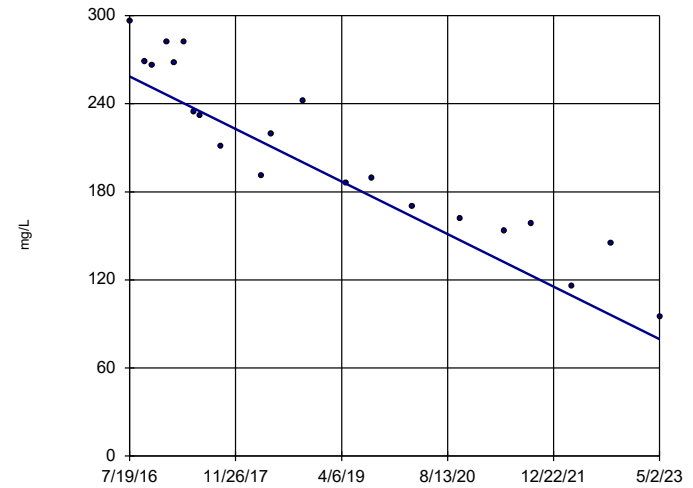


n = 7
 Slope = 6.465
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

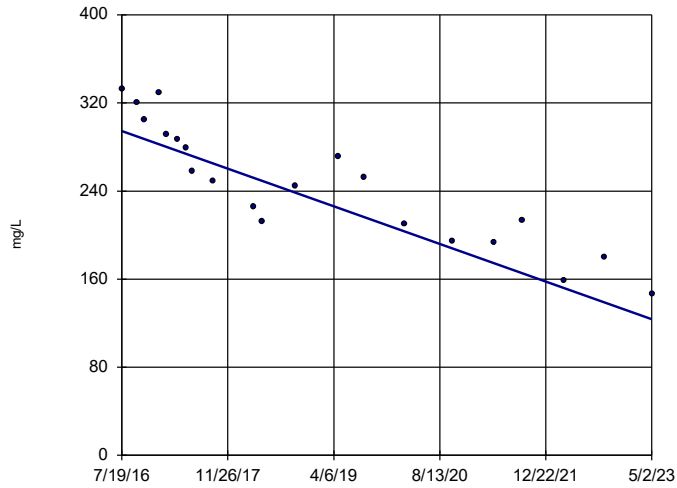


n = 21
 Slope = -26.36
 units per year.
 Mann-Kendall
 statistic = -177
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

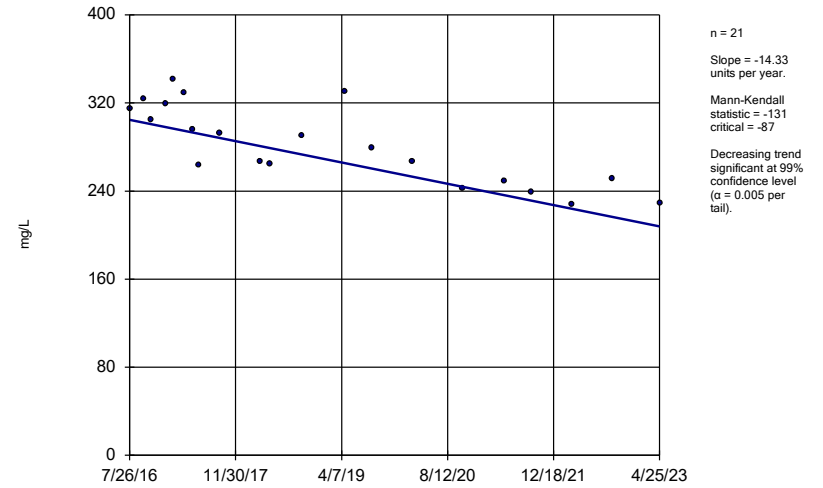
MR-AP-MW-4



Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

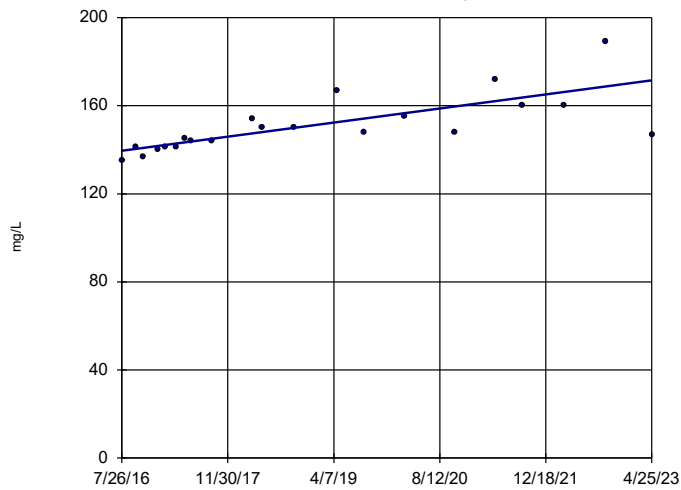
MR-AP-MW-5



Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

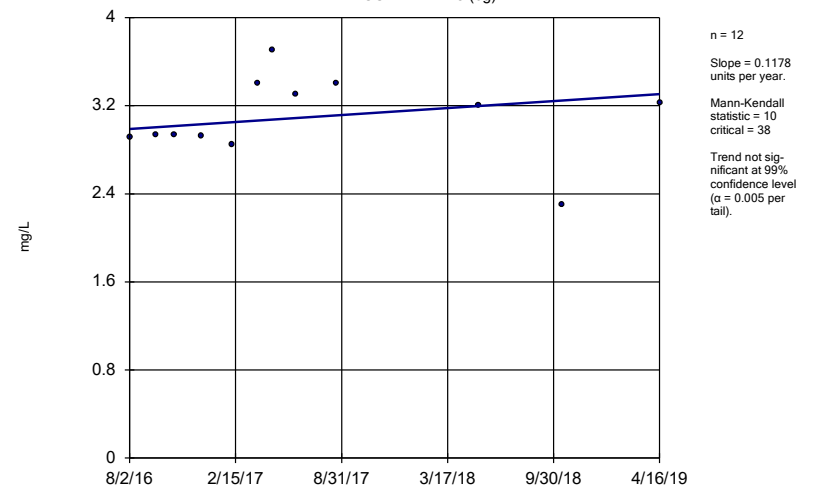
MR-AP-MW-6



Constituent: Calcium, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

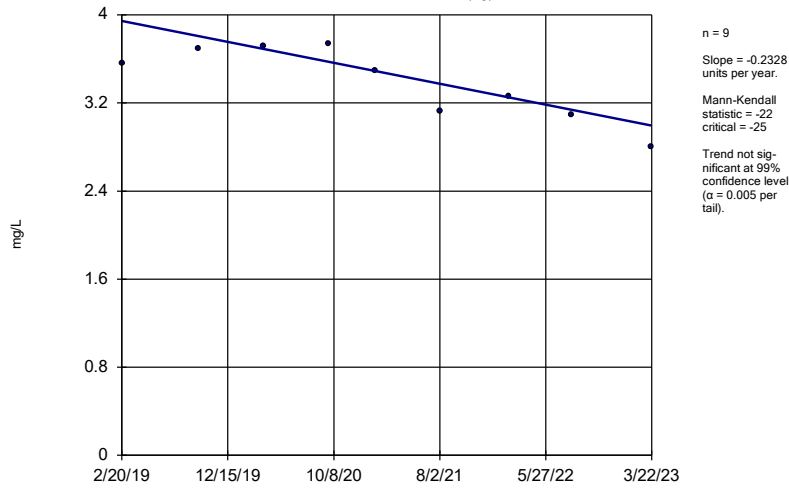
GS-AP-MW-13 (bg)



Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

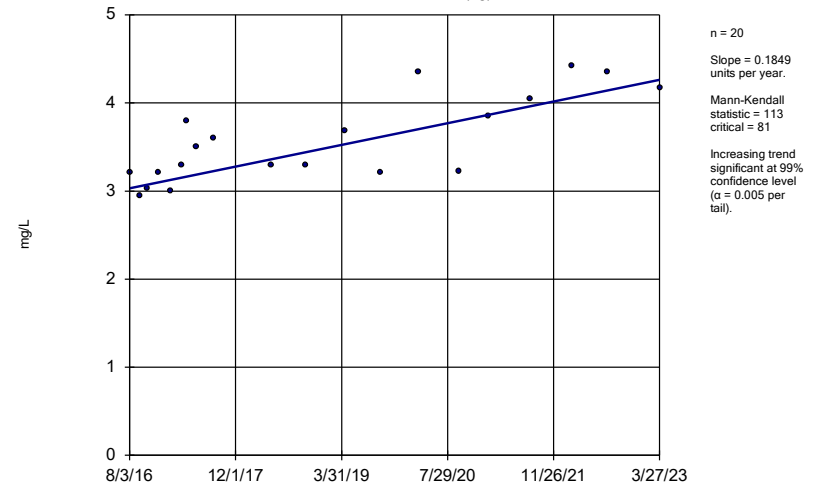
GS-AP-MW-17V (bg)



Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

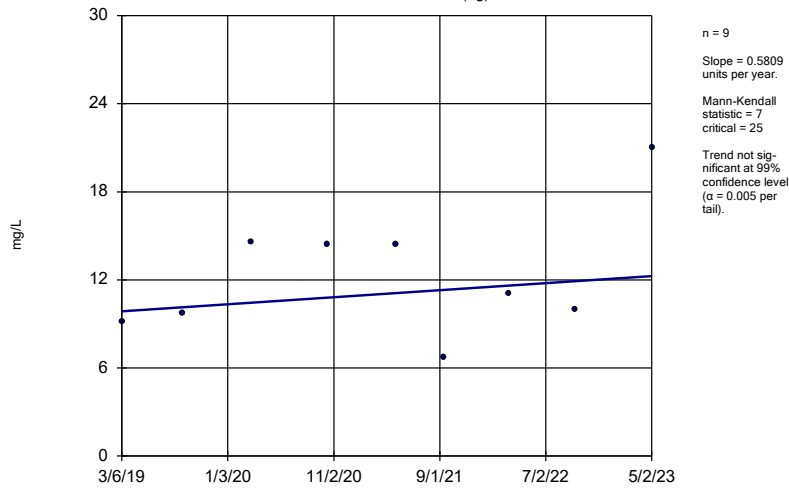
GS-AP-MW-8 (bg)



Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

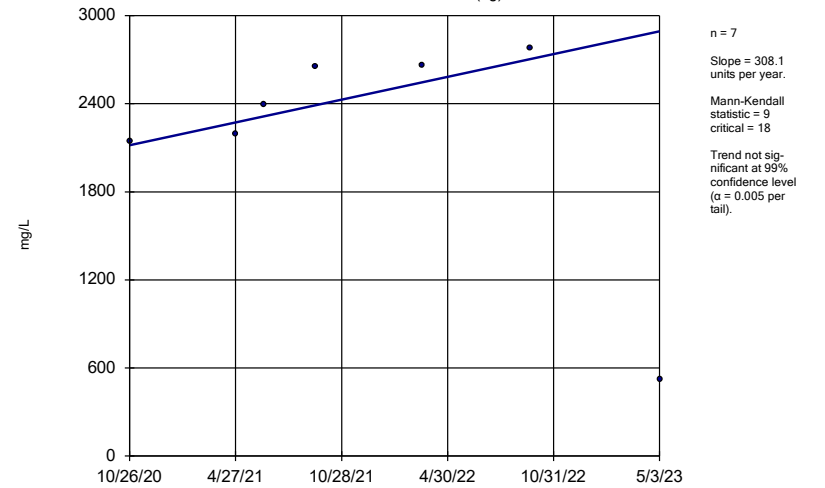
MR-AP-MW-21 (bg)



Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

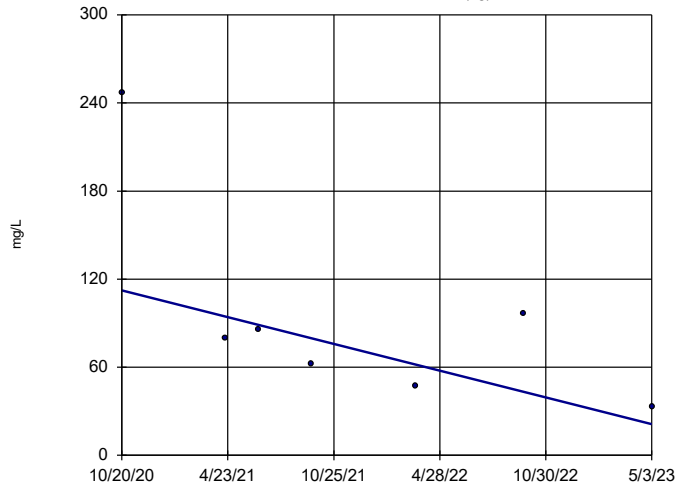
MR-AP-MW-22D (bg)



Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22l (bg)

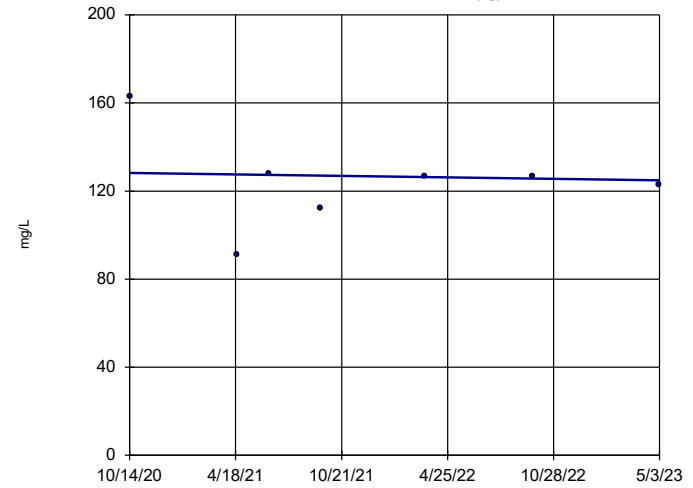


n = 7
 Slope = -35.95 units per year.
 Mann-Kendall statistic = -11
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

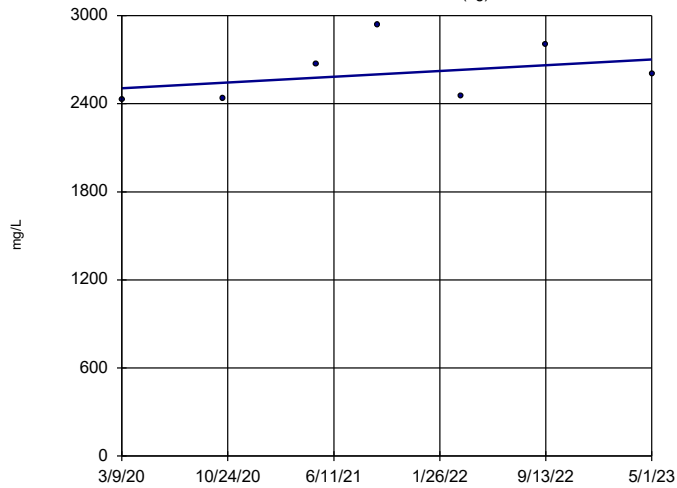


n = 7
 Slope = -1.337 units per year.
 Mann-Kendall statistic = -4
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

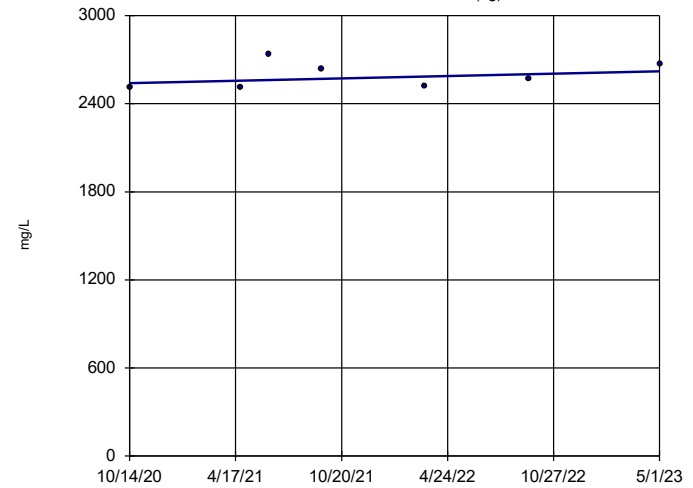


n = 7
 Slope = 62.86 units per year.
 Mann-Kendall statistic = 9
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

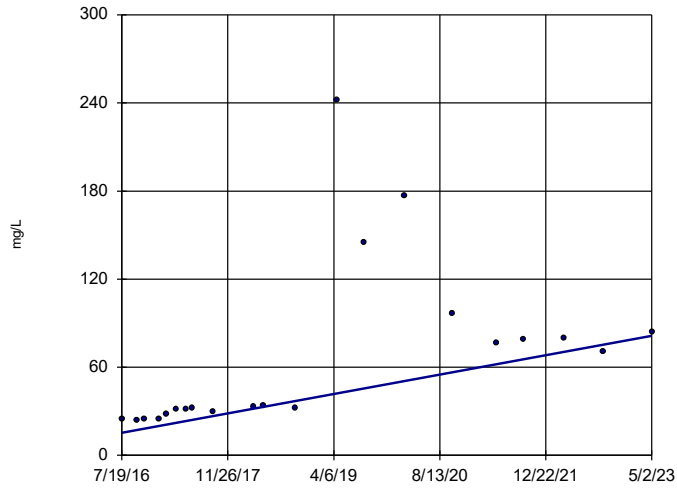


n = 7
 Slope = 31.29 units per year.
 Mann-Kendall statistic = 8
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3S

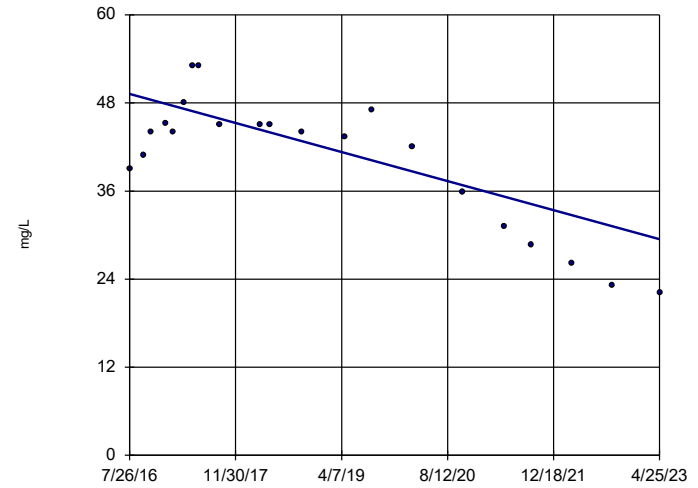


n = 21
 Slope = 9.72
 units per year.
 Mann-Kendall
 statistic = 134
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

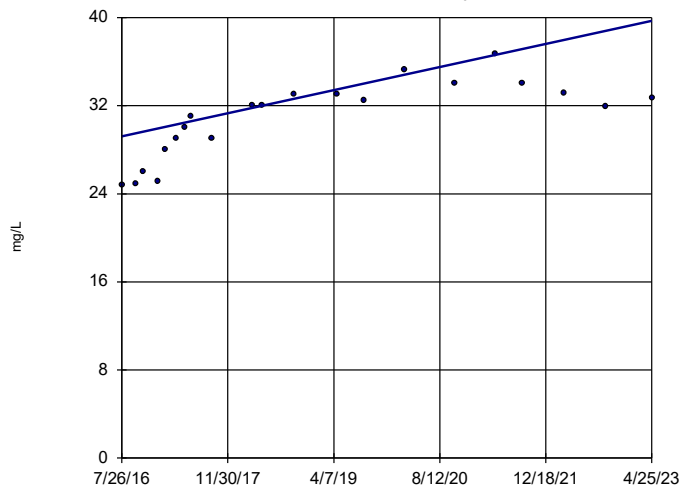


n = 21
 Slope = -2.931
 units per year.
 Mann-Kendall
 statistic = -99
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-6

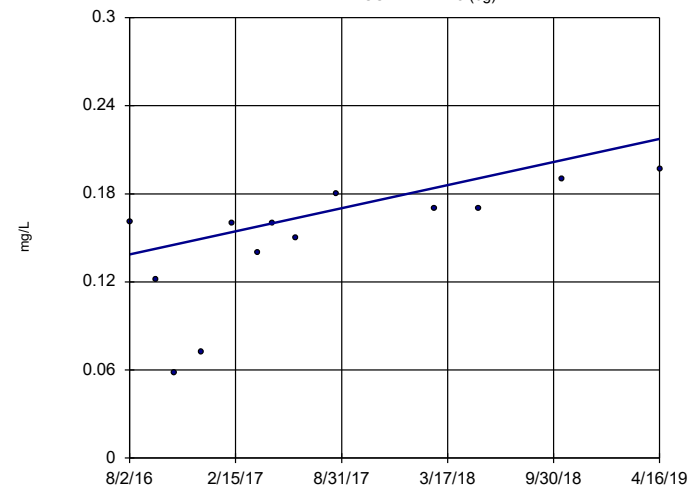


n = 21
 Slope = 1.556
 units per year.
 Mann-Kendall
 statistic = 148
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

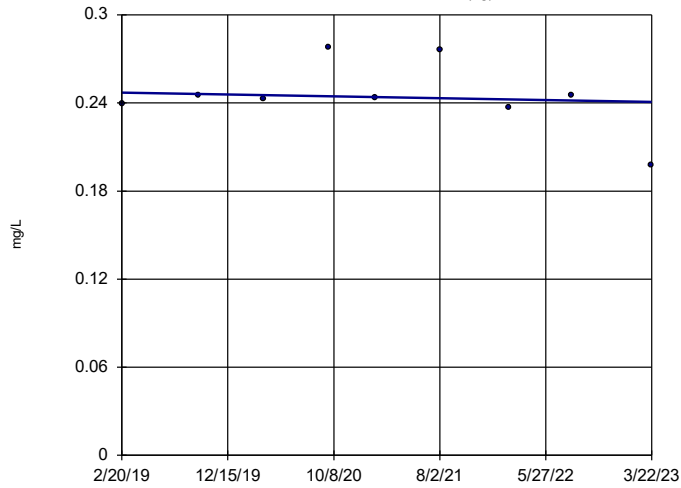


n = 13
 Slope = 0.02914
 units per year.
 Mann-Kendall
 statistic = 48
 critical = 43
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

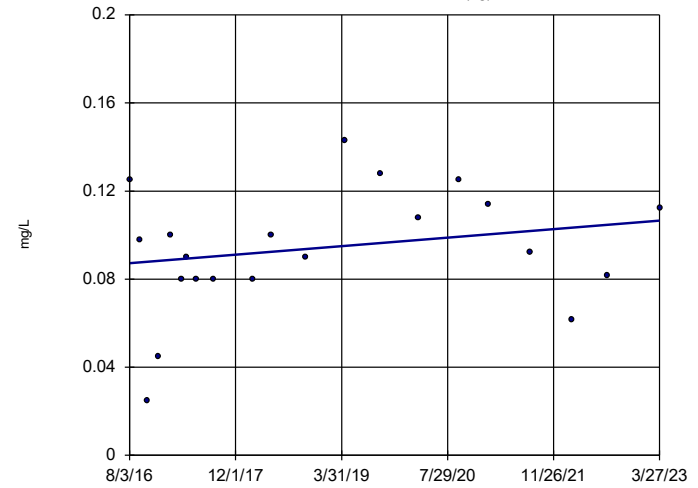


n = 9
 Slope = -0.001533 units per year.
 Mann-Kendall statistic = -5
 critical = -25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

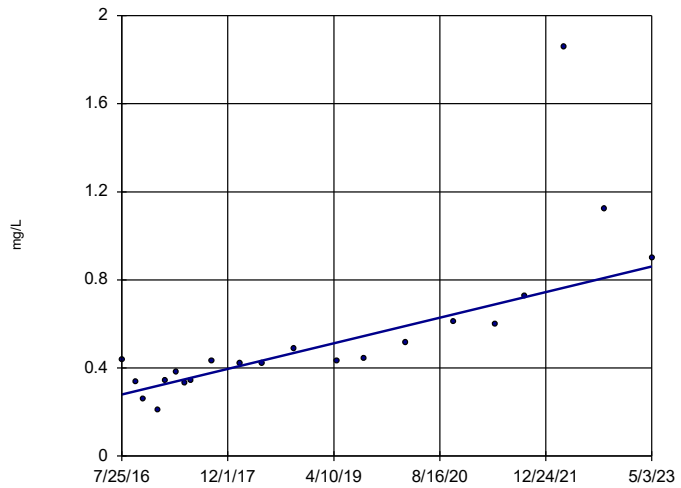


n = 21
 Slope = 0.002916 units per year.
 Mann-Kendall statistic = 39
 critical = 87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-10

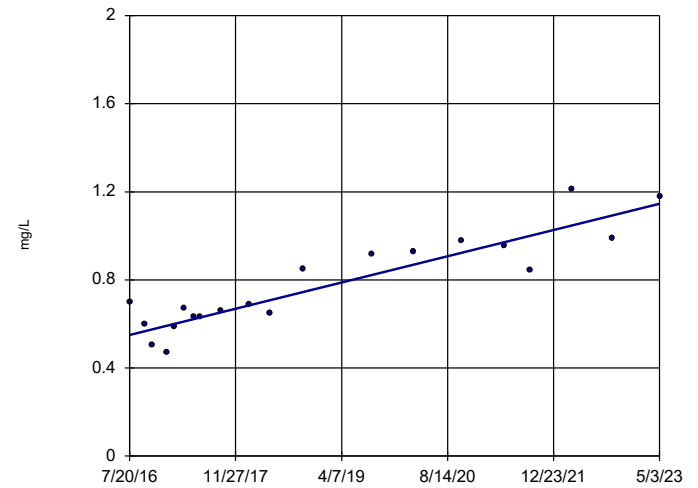


n = 21
 Slope = 0.08583 units per year.
 Mann-Kendall statistic = 156
 critical = 87
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-12

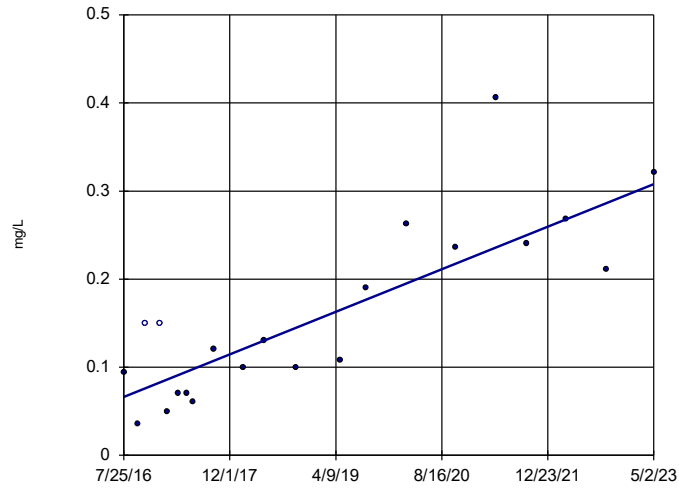


n = 20
 Slope = 0.08774 units per year.
 Mann-Kendall statistic = 133
 critical = 81
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-2

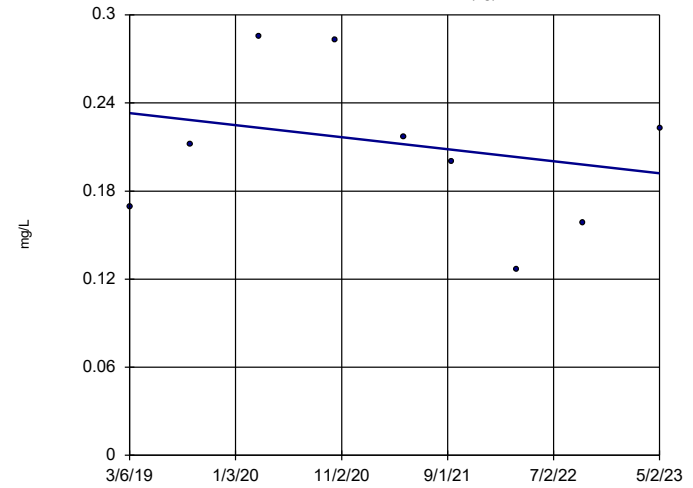


n = 21
 Slope = 0.03571
 units per year.
 Mann-Kendall
 statistic = 127
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

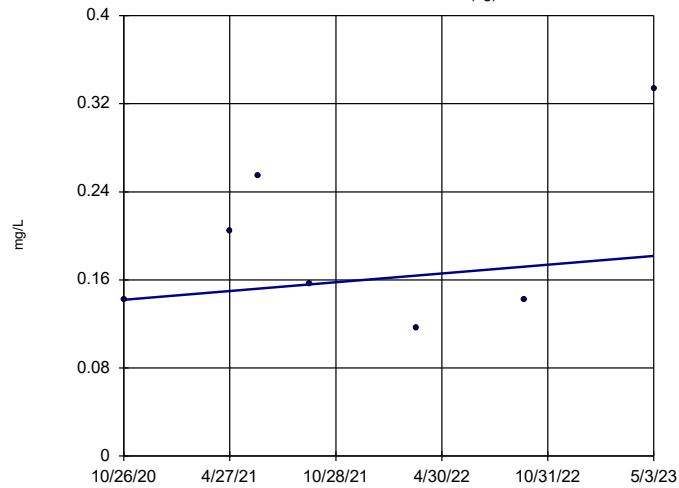


n = 9
 Slope = -0.009852
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22D (bg)

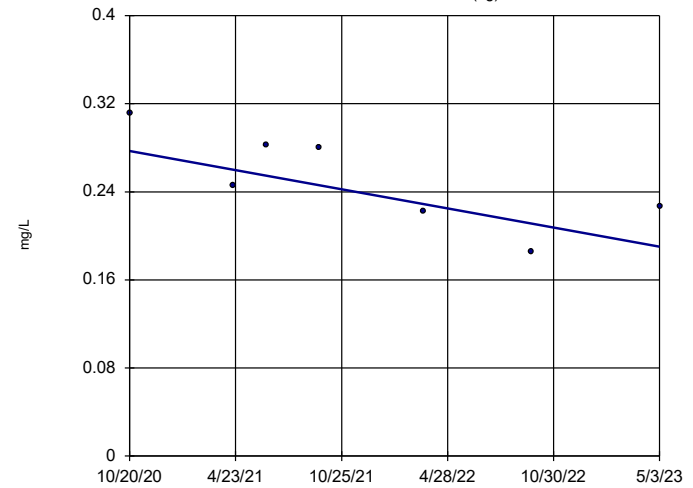


n = 7
 Slope = 0.01582
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22I (bg)

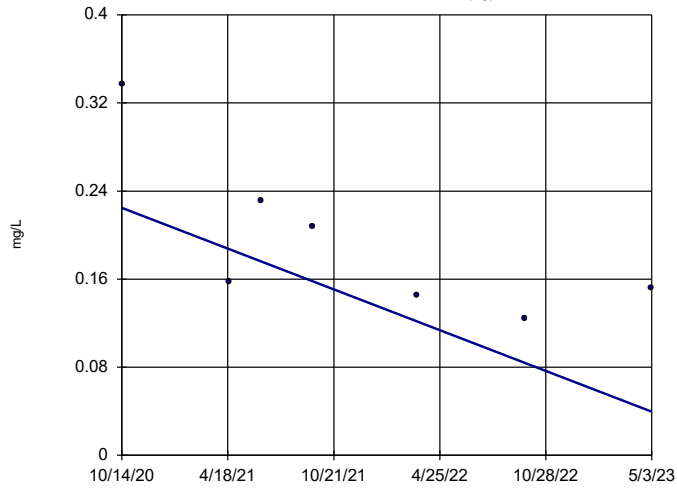


n = 7
 Slope = -0.03429
 units per year.
 Mann-Kendall
 statistic = -13
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

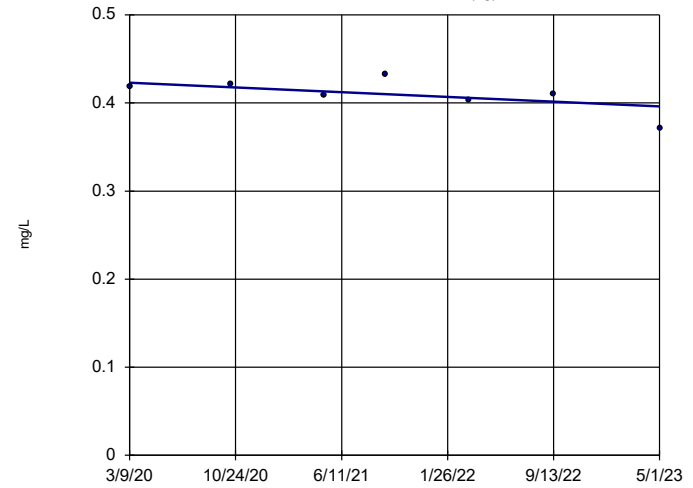


n = 7
 Slope = -0.07253 units per year.
 Mann-Kendall statistic = -13
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

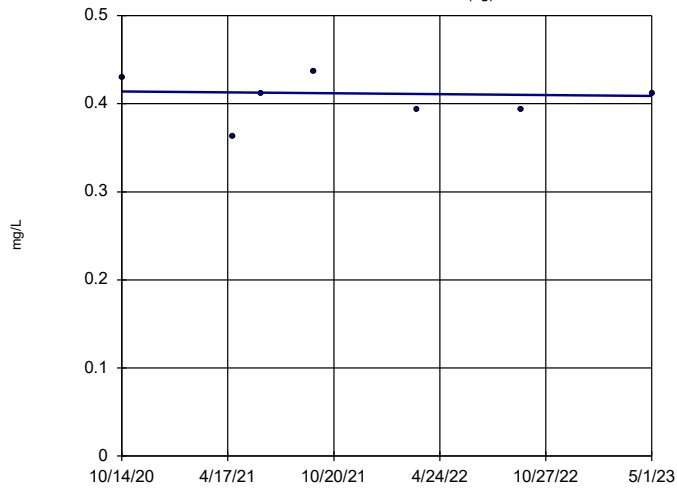


n = 7
 Slope = -0.008649 units per year.
 Mann-Kendall statistic = -9
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

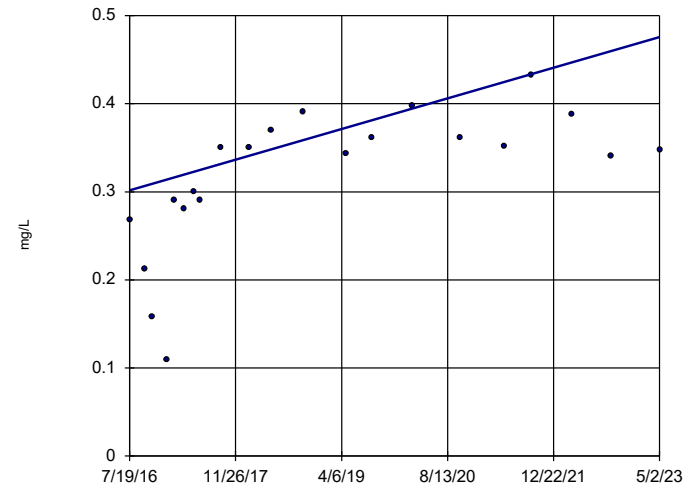


n = 7
 Slope = -0.002005 units per year.
 Mann-Kendall statistic = -2
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

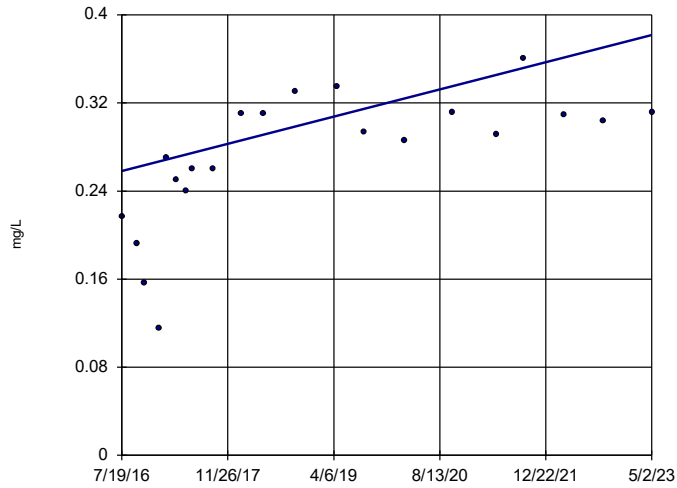


n = 21
 Slope = 0.02561 units per year.
 Mann-Kendall statistic = 116
 critical = 87
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3S

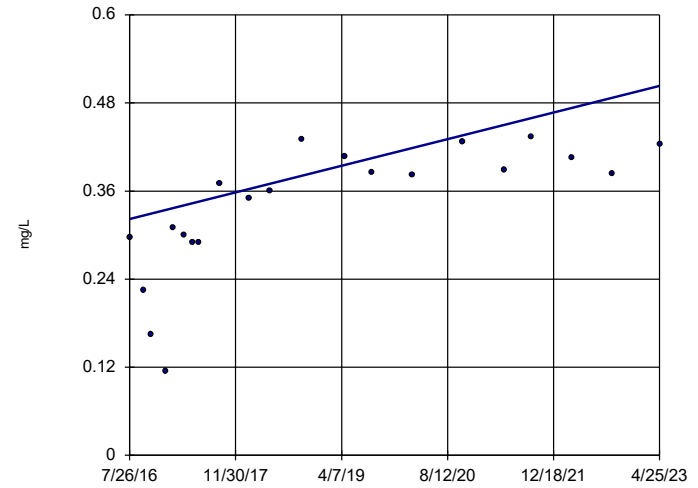


n = 21
 Slope = 0.01818
 units per year.
 Mann-Kendall
 statistic = 119
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

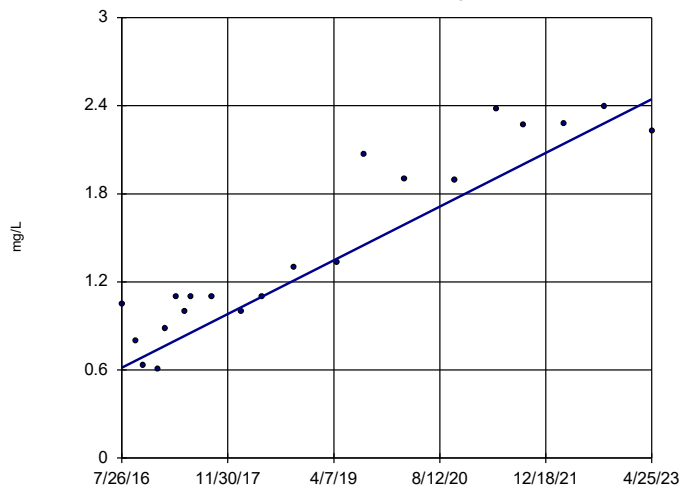


n = 21
 Slope = 0.02684
 units per year.
 Mann-Kendall
 statistic = 131
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-PZ-5

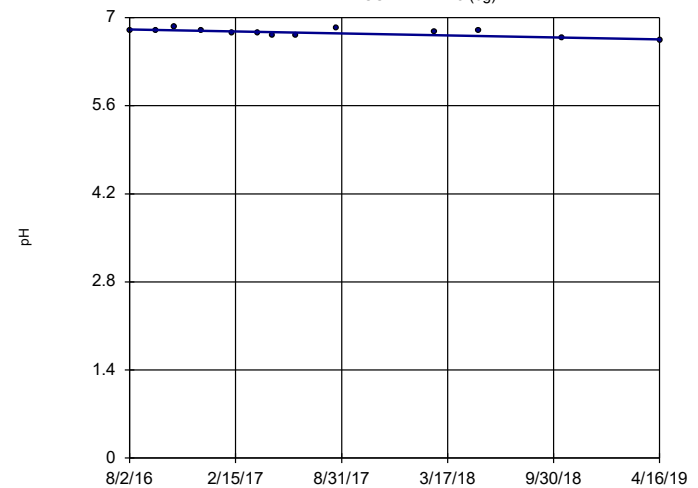


n = 21
 Slope = 0.2706
 units per year.
 Mann-Kendall
 statistic = 159
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

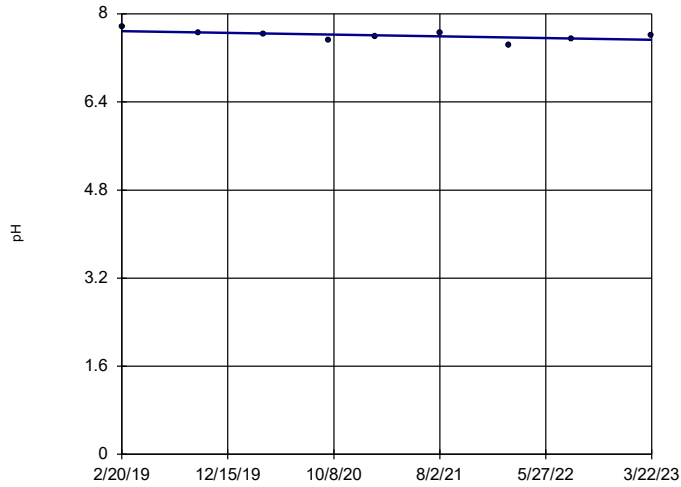


n = 13
 Slope = -0.05825
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

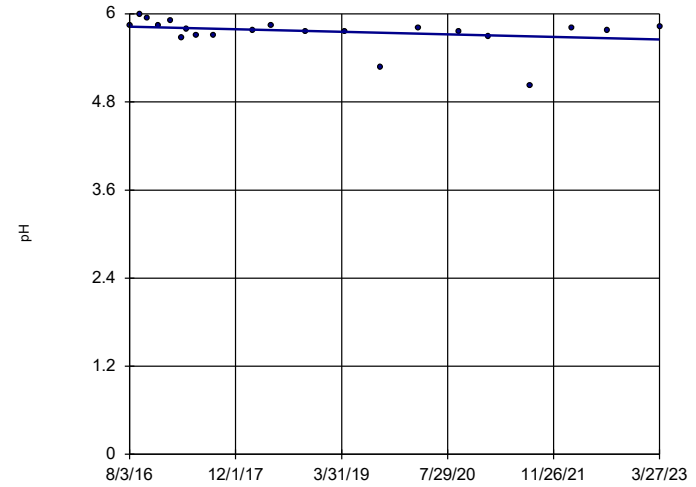


n = 9
 Slope = -0.03831 units per year.
 Mann-Kendall statistic = -15
 critical = -25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

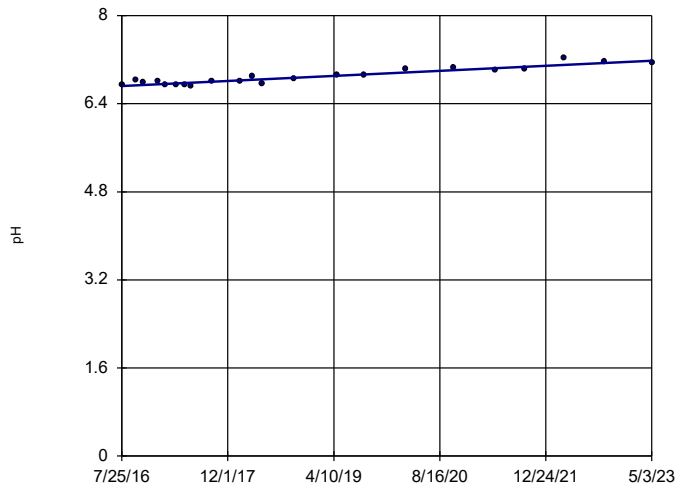


n = 21
 Slope = -0.02608 units per year.
 Mann-Kendall statistic = -65
 critical = -87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-10

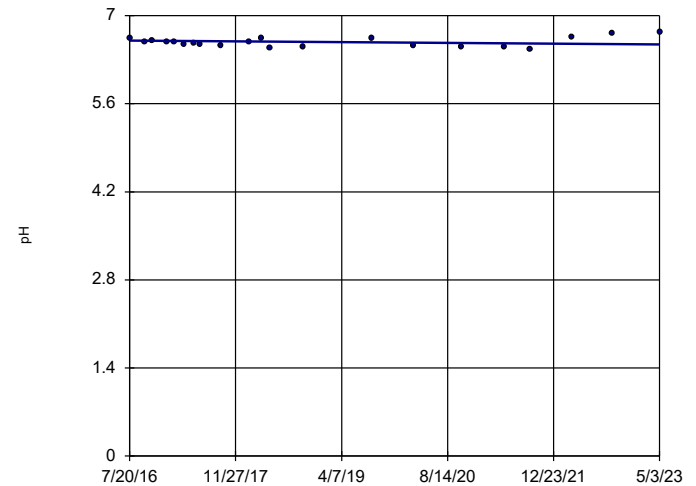


n = 22
 Slope = 0.06711 units per year.
 Mann-Kendall statistic = 157
 critical = 92
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-12

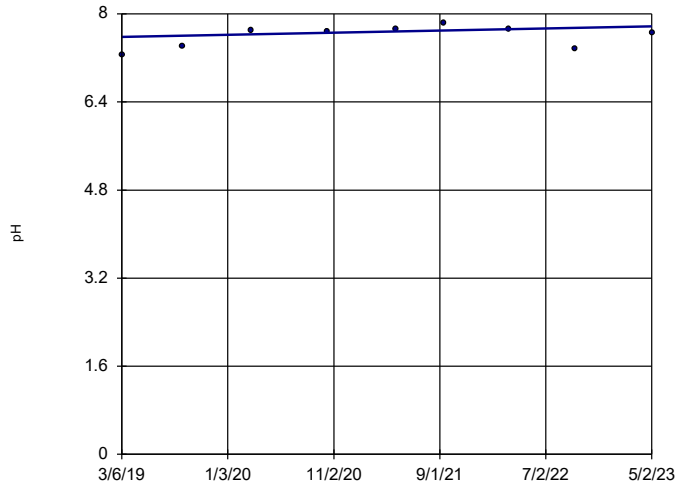


n = 21
 Slope = -0.009366 units per year.
 Mann-Kendall statistic = -22
 critical = -87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

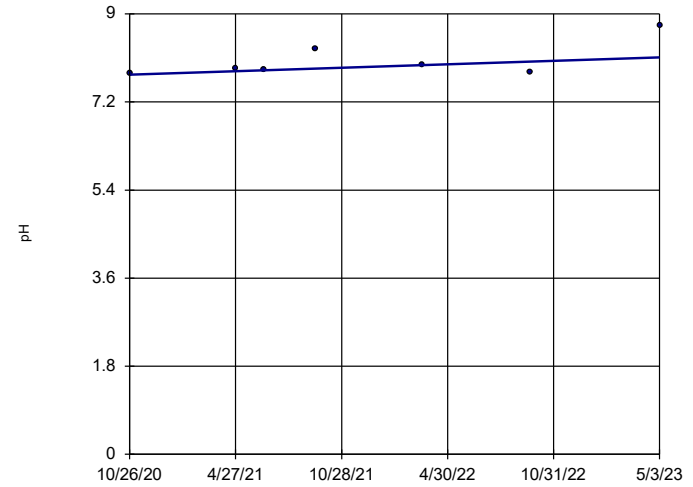


n = 9
 Slope = 0.04529 units per year.
 Mann-Kendall statistic = 8
 critical = 25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22D (bg)

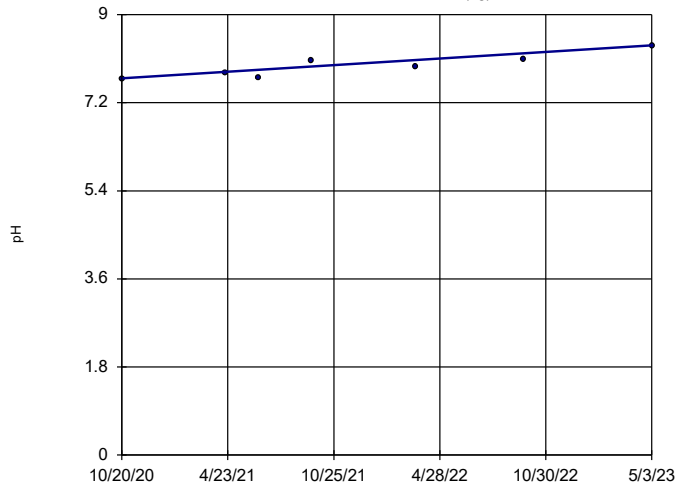


n = 7
 Slope = 0.141 units per year.
 Mann-Kendall statistic = 9
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22I (bg)

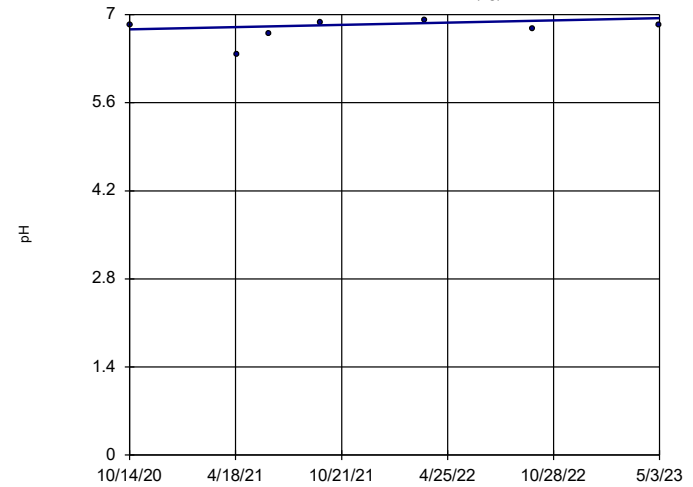


n = 7
 Slope = 0.2644 units per year.
 Mann-Kendall statistic = 17
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

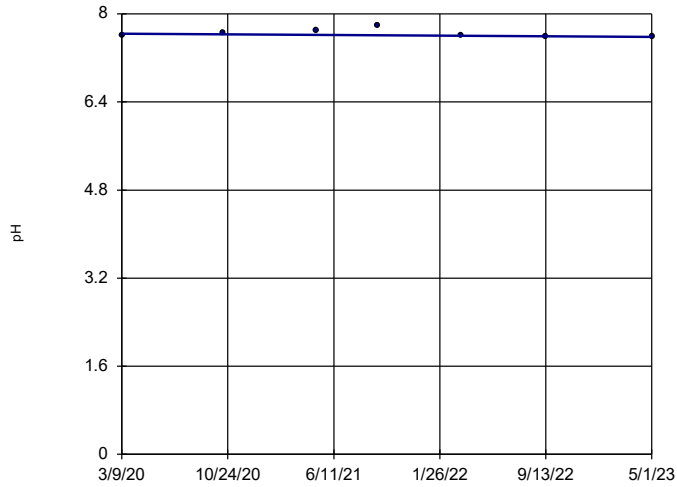


n = 7
 Slope = 0.0711 units per year.
 Mann-Kendall statistic = 5
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

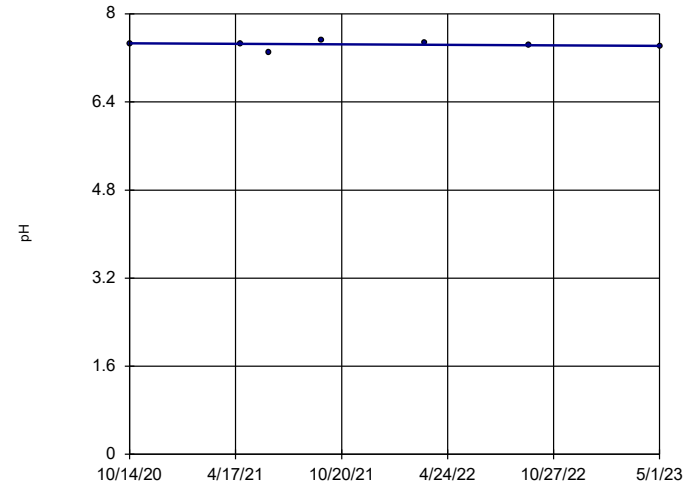


n = 7
 Slope = -0.01772
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

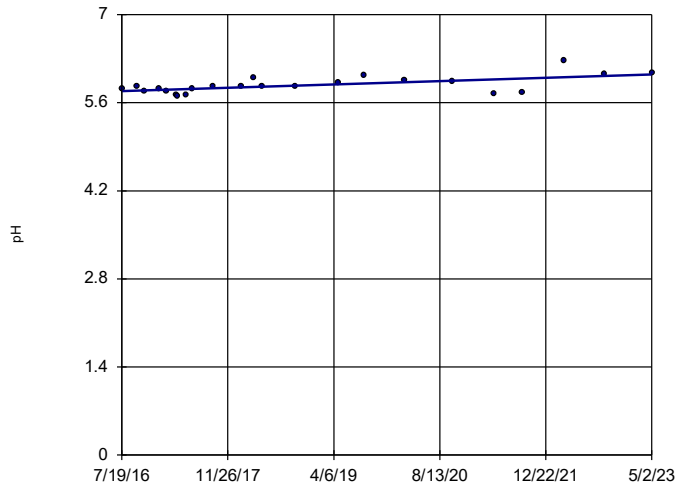


n = 7
 Slope = -0.01872
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

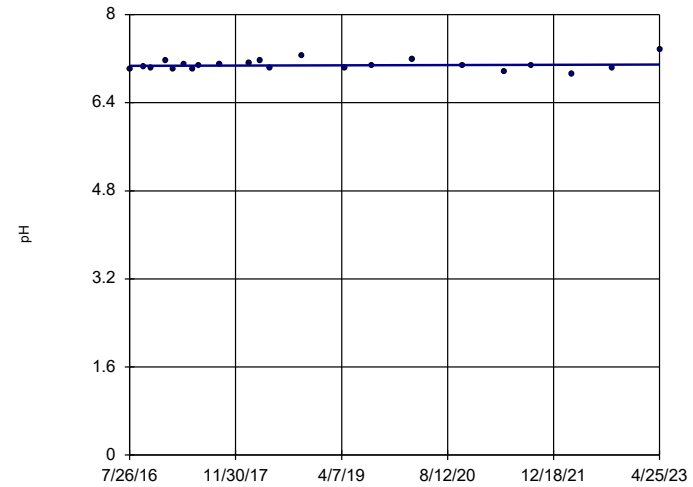


n = 23
 Slope = 0.0386
 units per year.
 Mann-Kendall
 statistic = 114
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

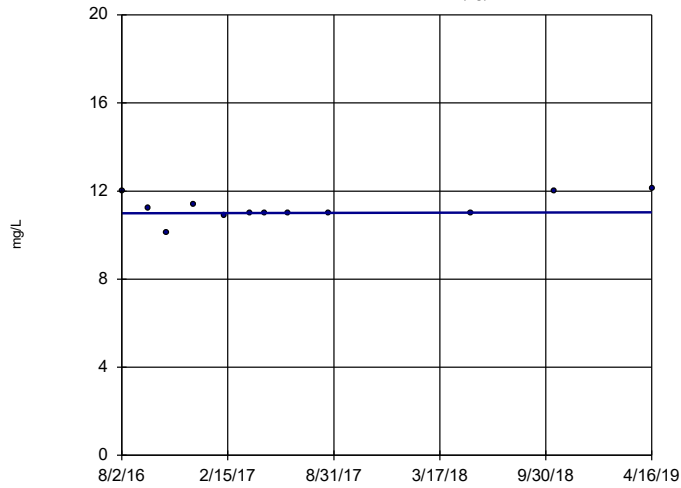


n = 22
 Slope = 0.004042
 units per year.
 Mann-Kendall
 statistic = 21
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

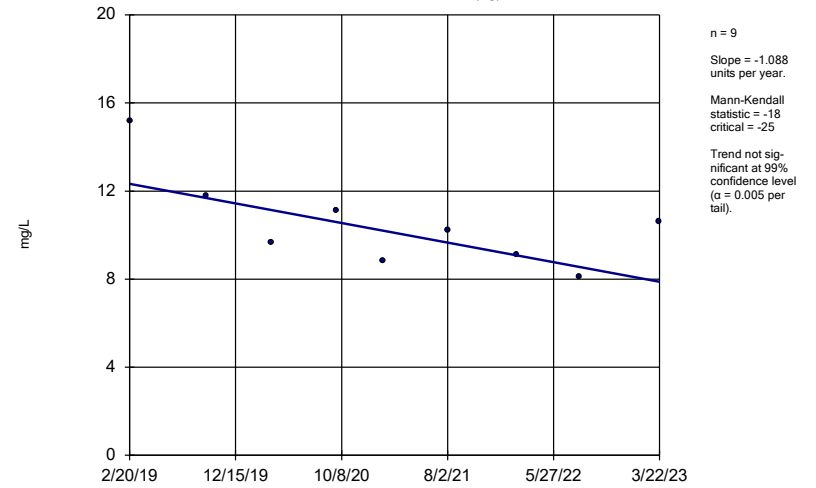
GS-AP-MW-13 (bg)



Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

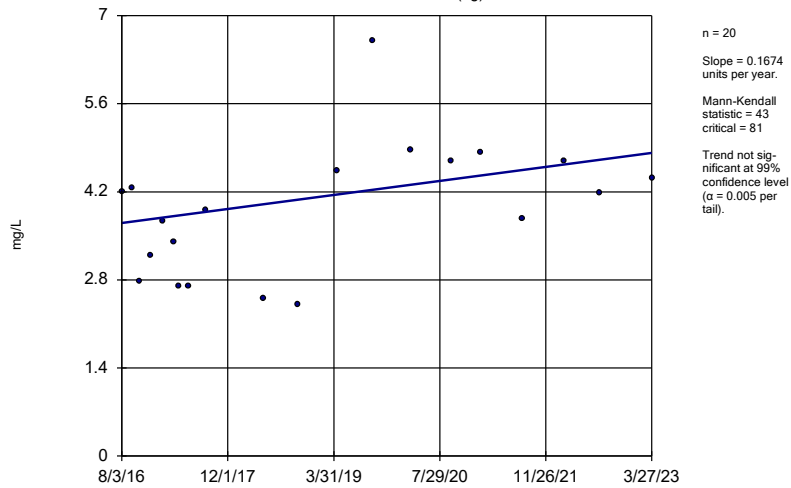
GS-AP-MW-17V (bg)



Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

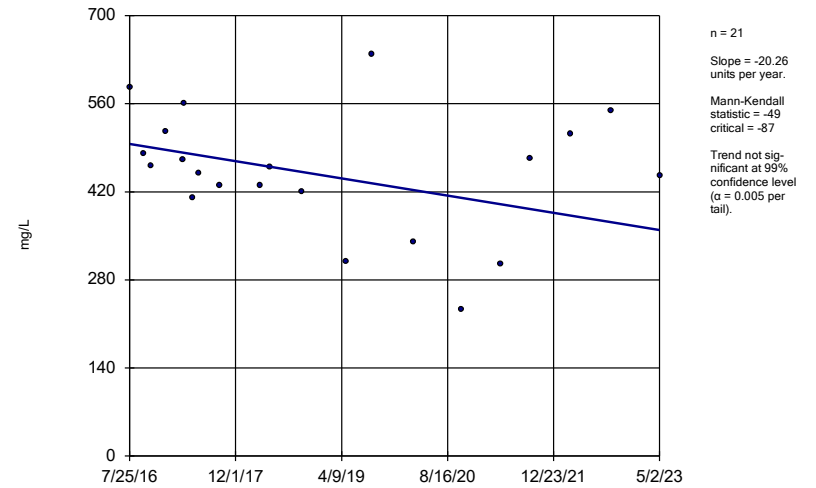
GS-AP-MW-8 (bg)



Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

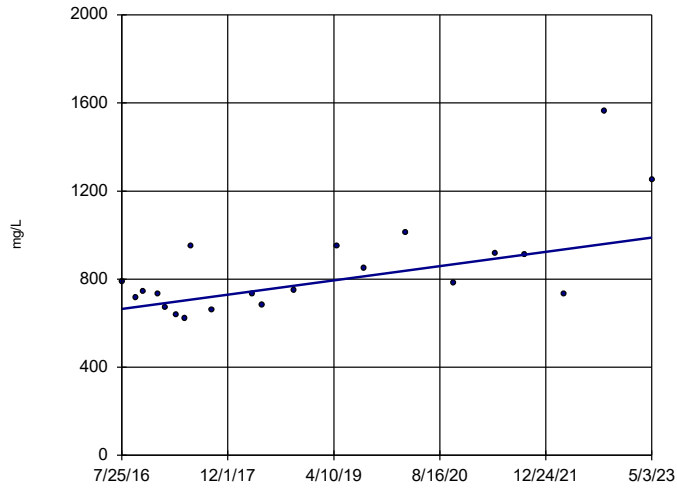
MR-AP-MW-1



Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-10

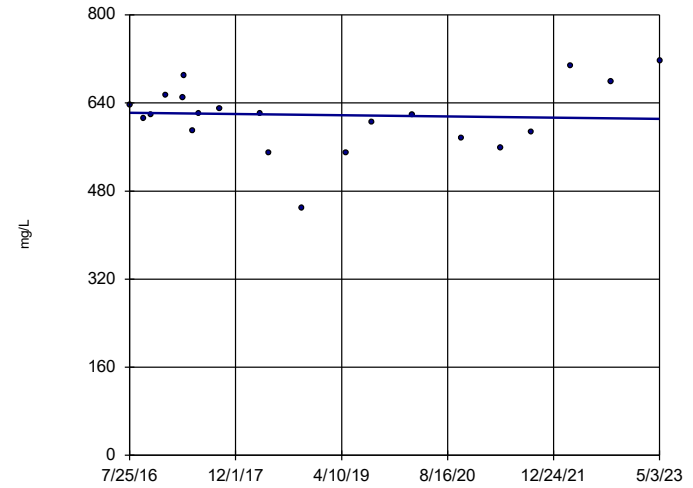


n = 21
 Slope = 47.78
 units per year.
 Mann-Kendall
 statistic = 85
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-11

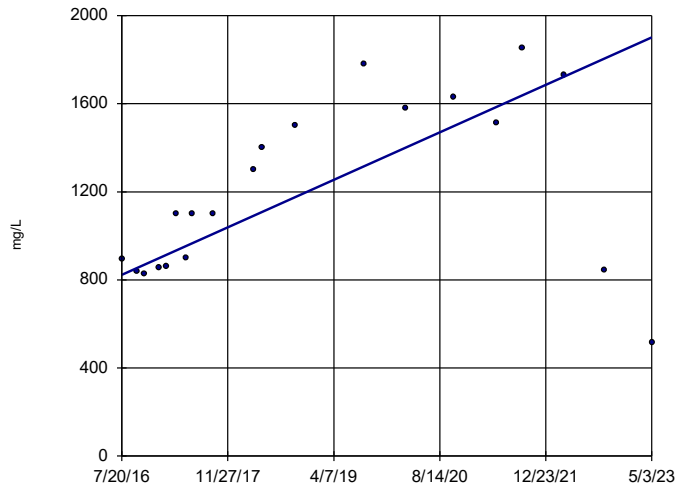


n = 21
 Slope = -1.614
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-12

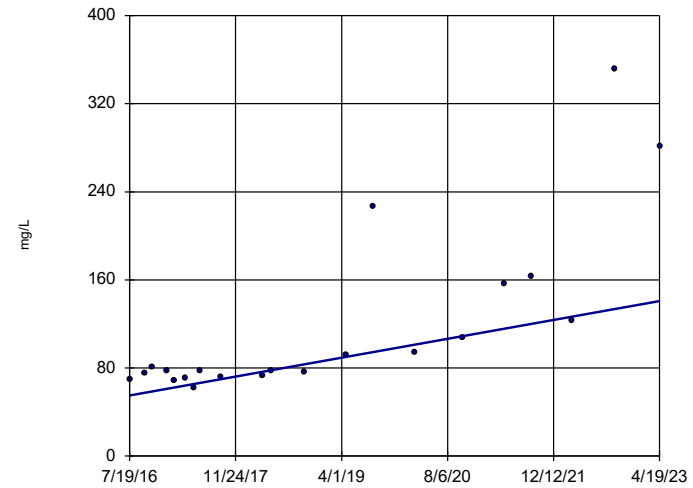


n = 20
 Slope = 158.8
 units per year.
 Mann-Kendall
 statistic = 91
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-15

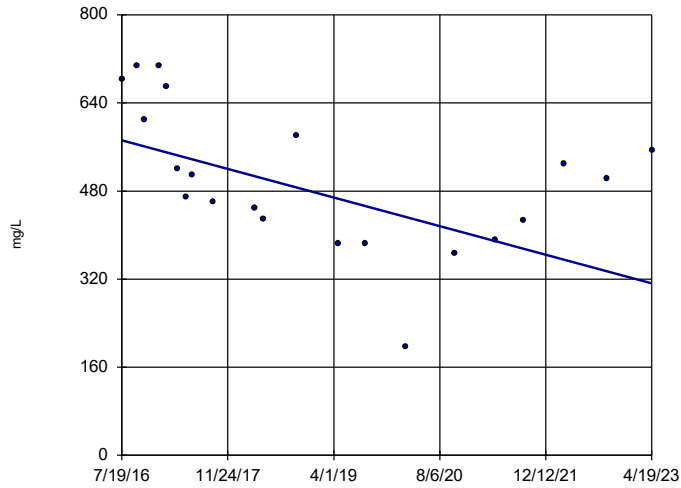


n = 21
 Slope = 12.69
 units per year.
 Mann-Kendall
 statistic = 133
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-16

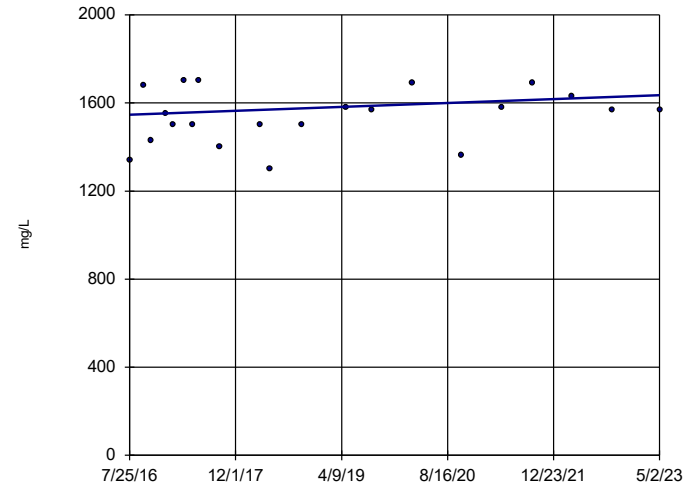


n = 21
 Slope = -38.5
 units per year.
 Mann-Kendall
 statistic = -95
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-2

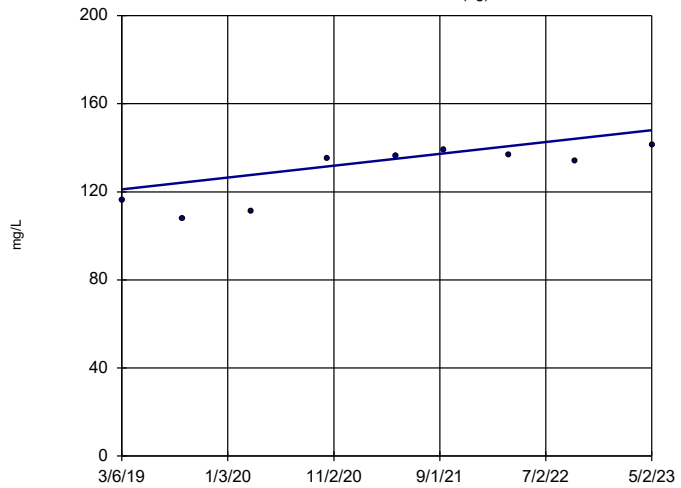


n = 21
 Slope = 13.04
 units per year.
 Mann-Kendall
 statistic = 36
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

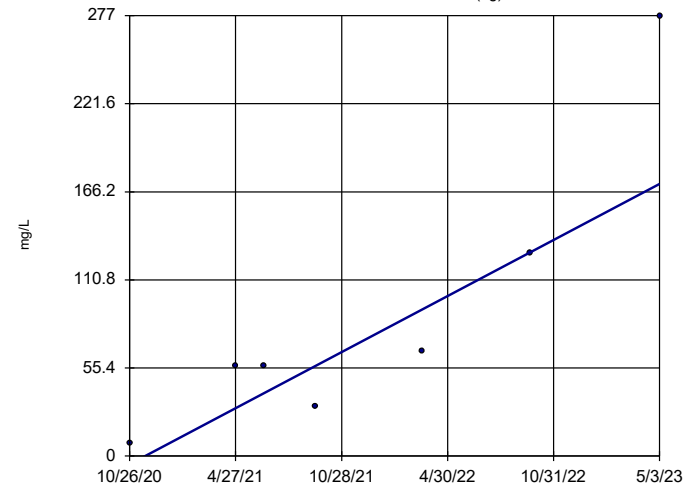


n = 9
 Slope = 6.468
 units per year.
 Mann-Kendall
 statistic = 22
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22D (bg)

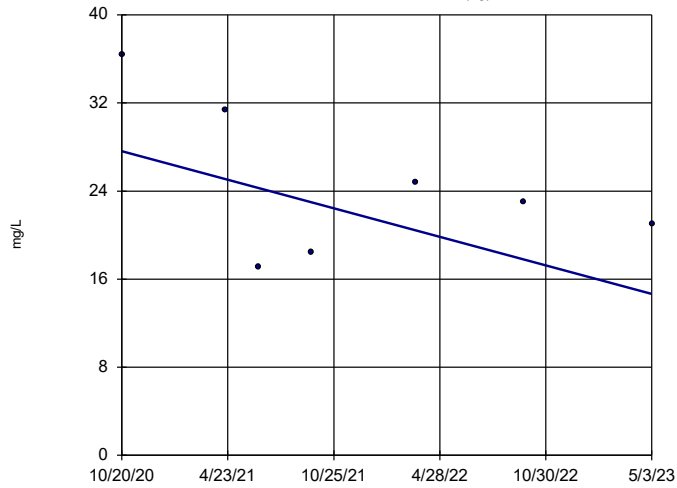


n = 7
 Slope = 70.02
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-221 (bg)

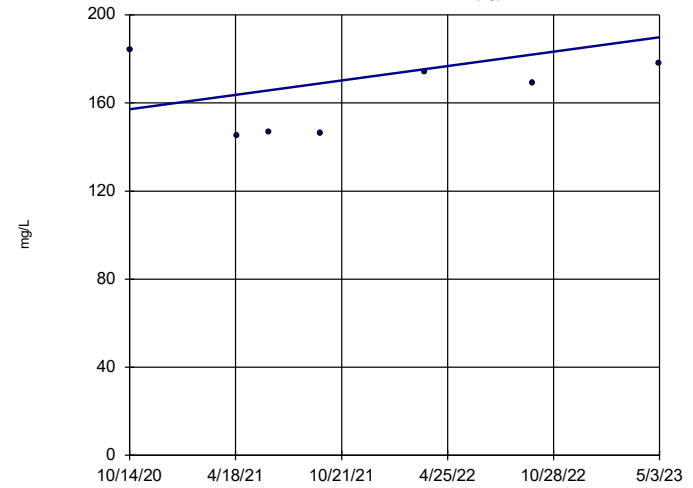


n = 7
 Slope = -5.109 units per year.
 Mann-Kendall statistic = -7
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

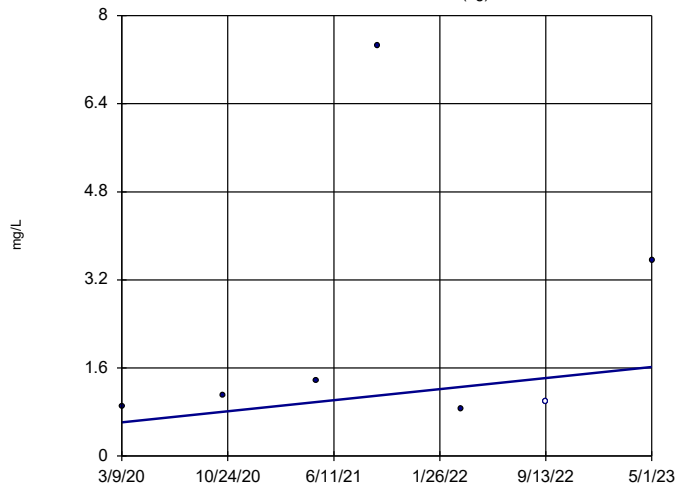


n = 7
 Slope = 12.81 units per year.
 Mann-Kendall statistic = 5
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

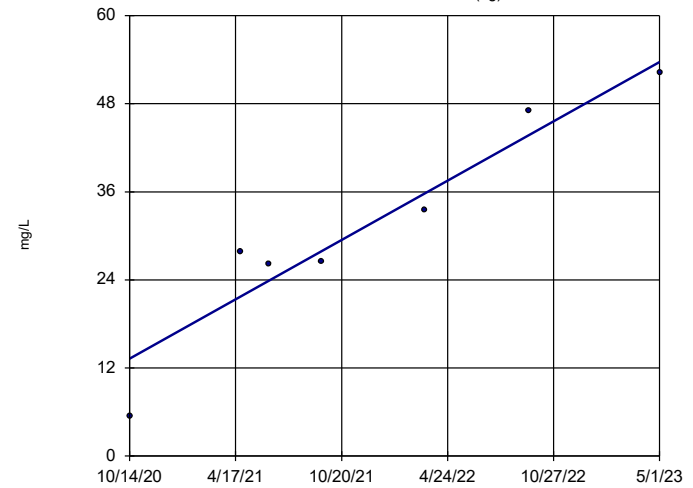


n = 7
 Slope = 0.32 units per year.
 Mann-Kendall statistic = 5
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

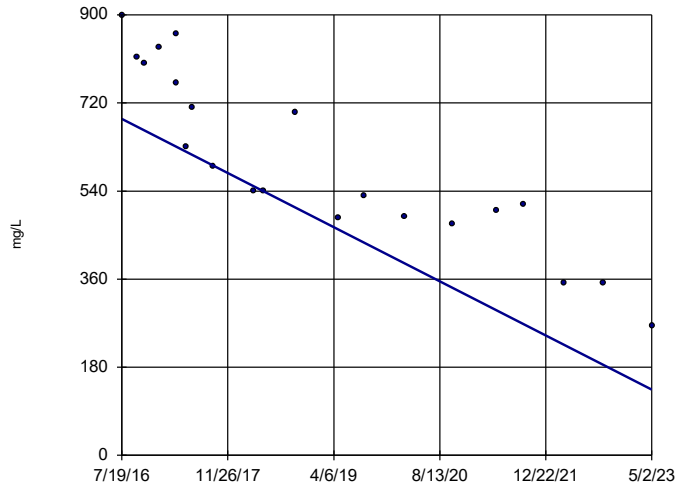


n = 7
 Slope = 15.88 units per year.
 Mann-Kendall statistic = 17
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

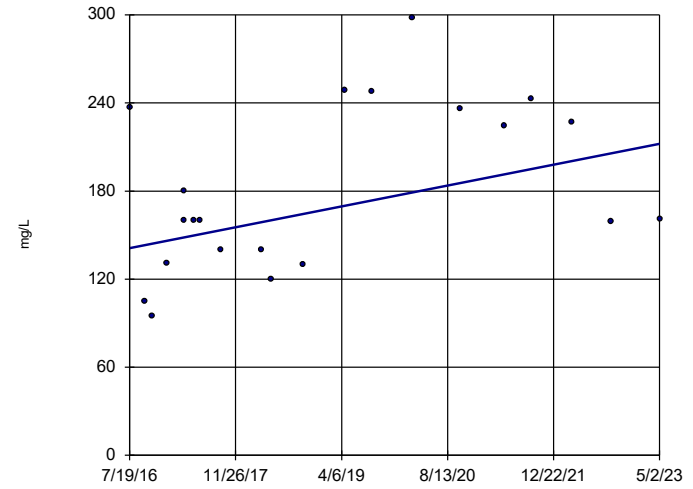


n = 21
 Slope = -81.4
 units per year.
 Mann-Kendall
 statistic = -168
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3S

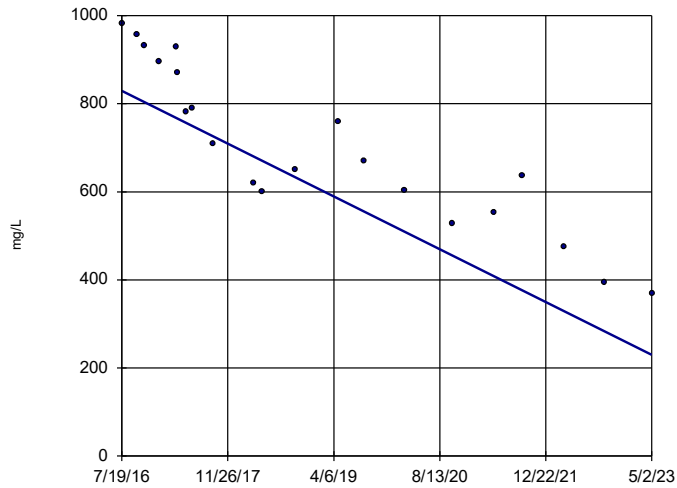


n = 21
 Slope = 10.46
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:52 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

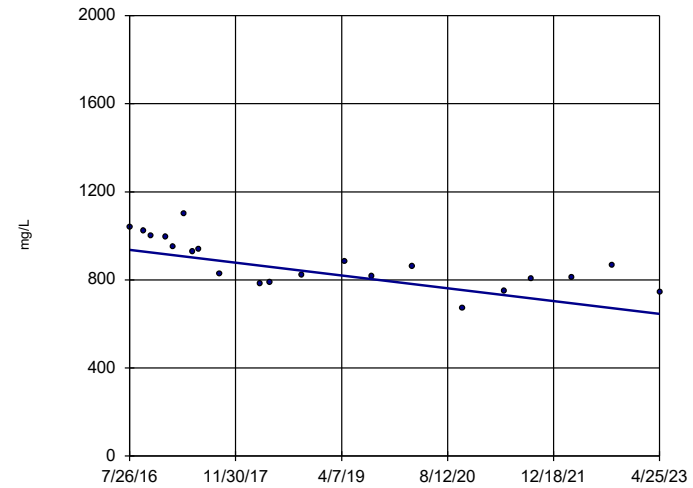


n = 21
 Slope = -88.28
 units per year.
 Mann-Kendall
 statistic = -174
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

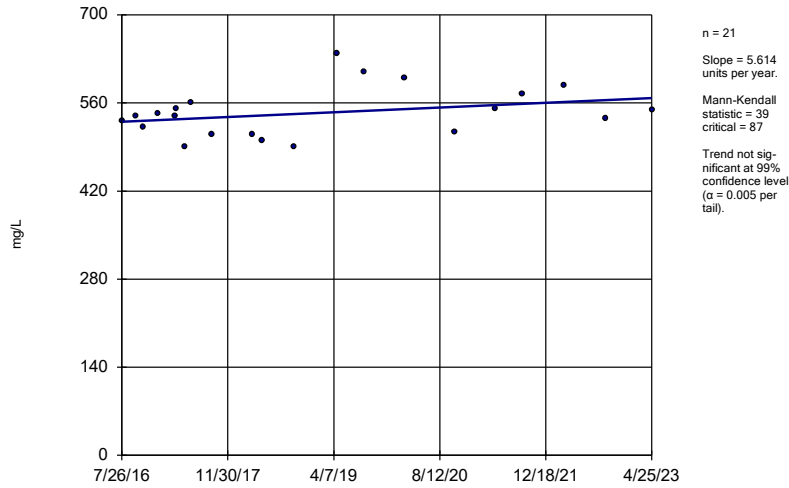


n = 21
 Slope = -42.97
 units per year.
 Mann-Kendall
 statistic = -128
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

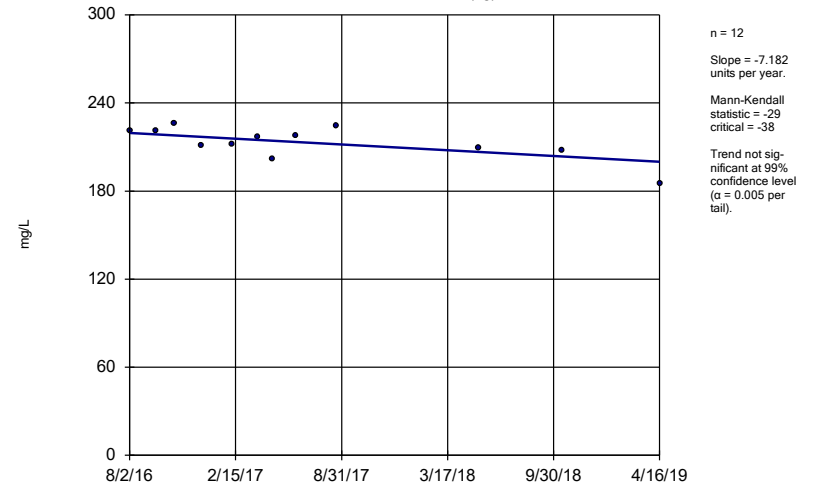
MR-AP-MW-6



Constituent: Sulfate as SO4 Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

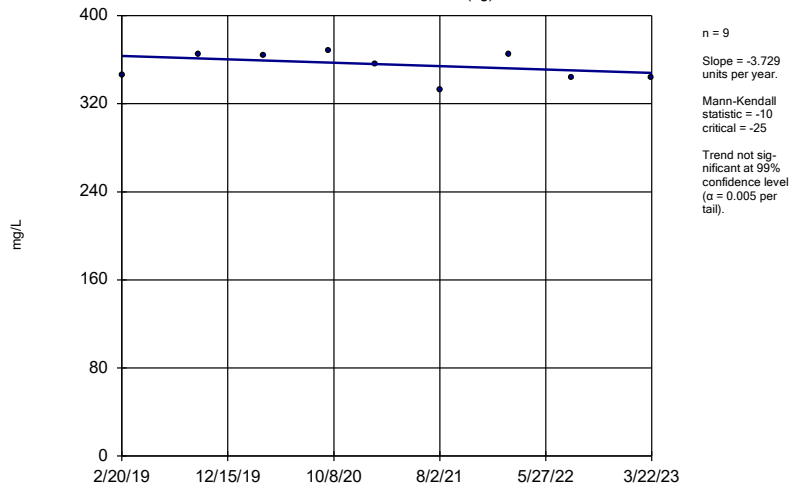
GS-AP-MW-13 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

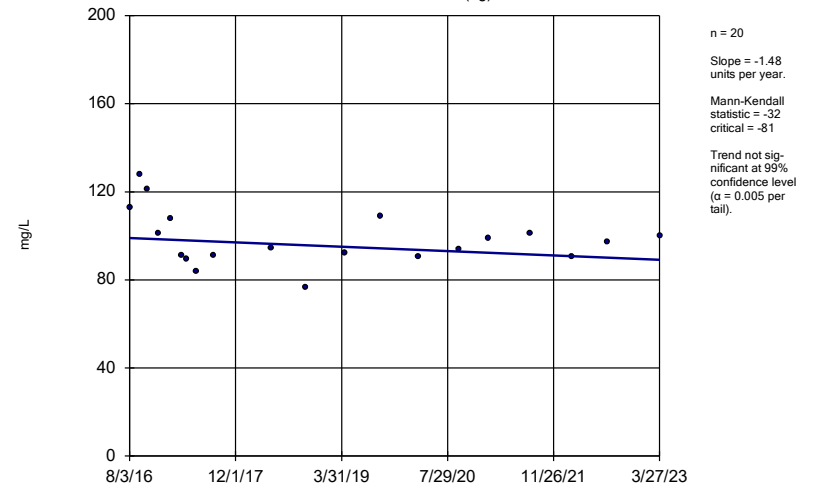
GS-AP-MW-17V (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

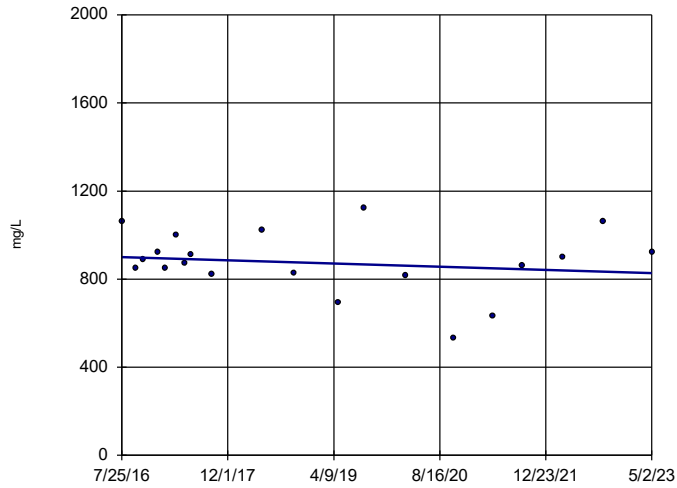
GS-AP-MW-8 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-1

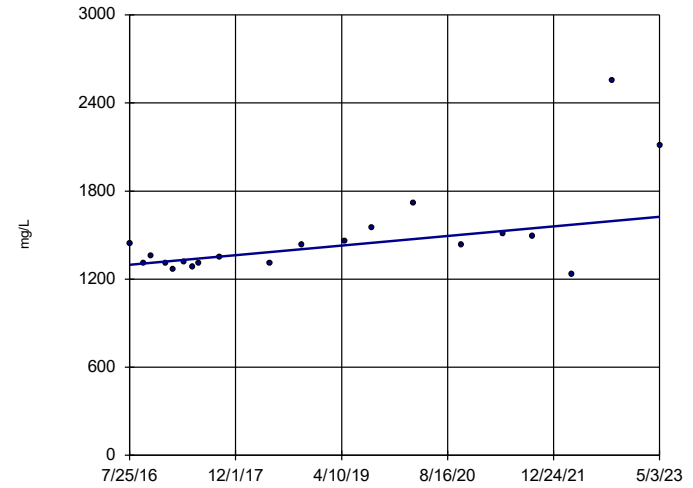


n = 20
 Slope = -10.78
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-10

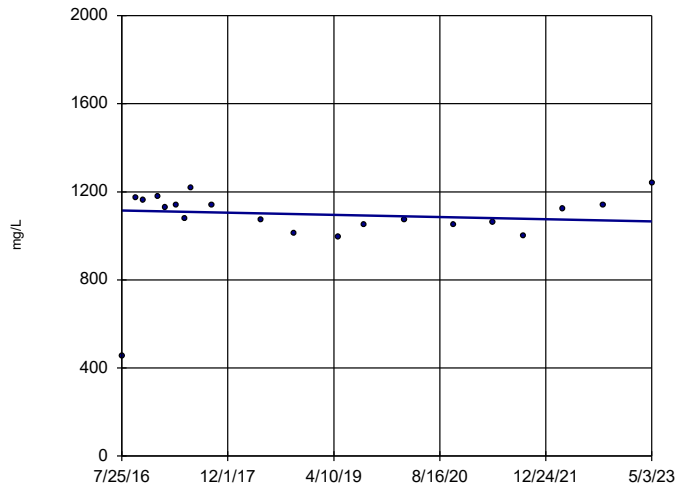


n = 20
 Slope = 48.21
 units per year.
 Mann-Kendall
 statistic = 79
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-11

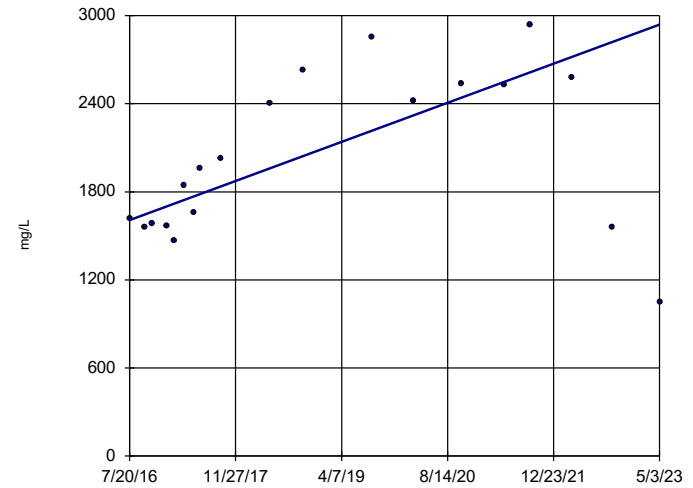


n = 20
 Slope = -7.237
 units per year.
 Mann-Kendall
 statistic = -25
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-12

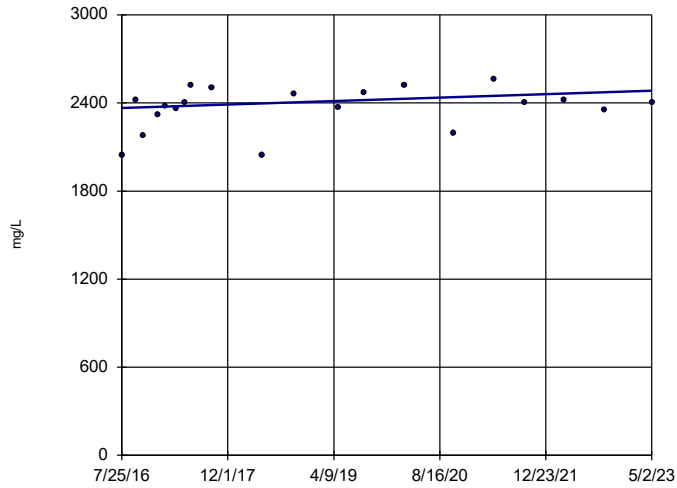


n = 19
 Slope = 196.4
 units per year.
 Mann-Kendall
 statistic = 66
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-2

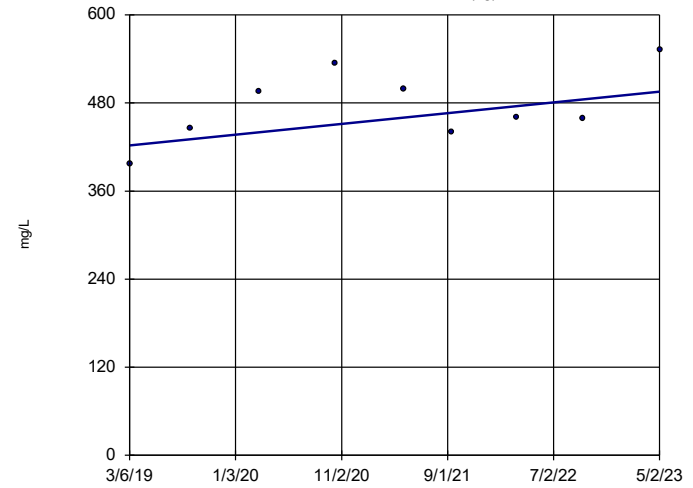


n = 20
 Slope = 17.27
 units per year.
 Mann-Kendall
 statistic = 44
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

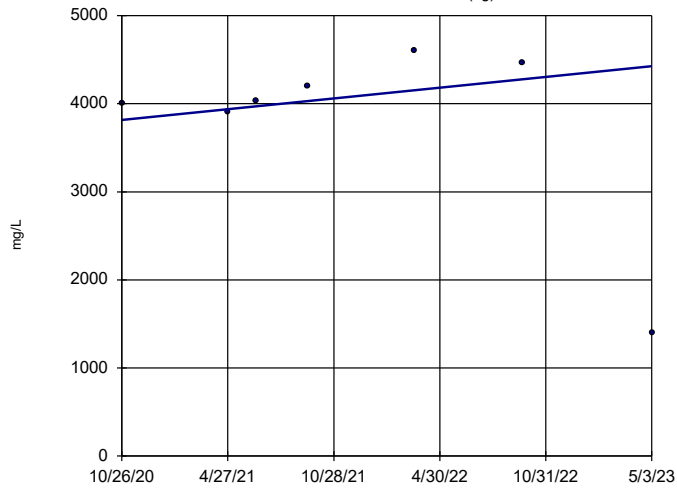


n = 9
 Slope = 17.6
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22D (bg)

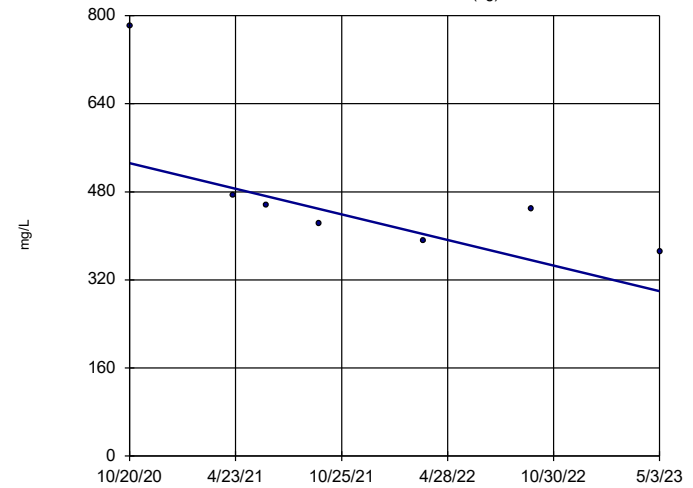


n = 7
 Slope = 241.6
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22I (bg)

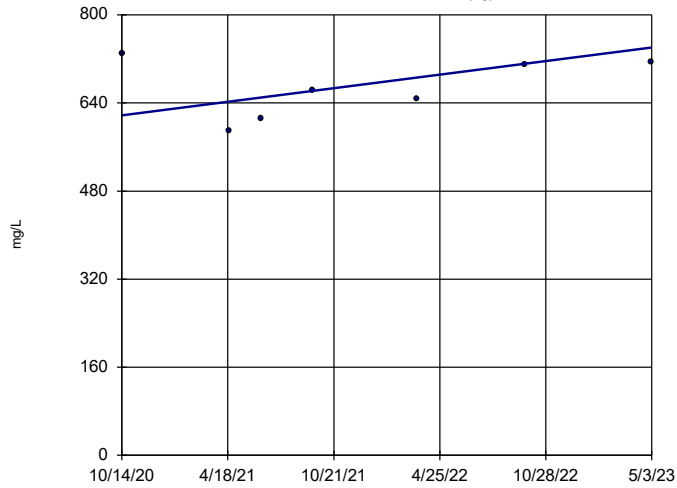


n = 7
 Slope = -91.8
 units per year.
 Mann-Kendall
 statistic = -17
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

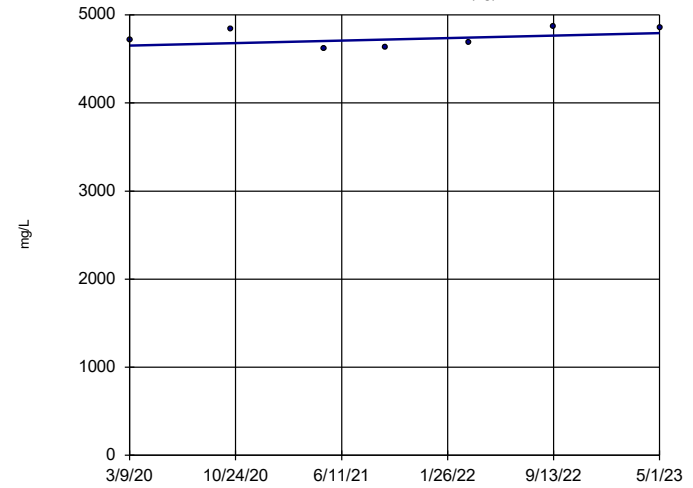


n = 7
 Slope = 48.13 units per year.
 Mann-Kendall statistic = 7
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

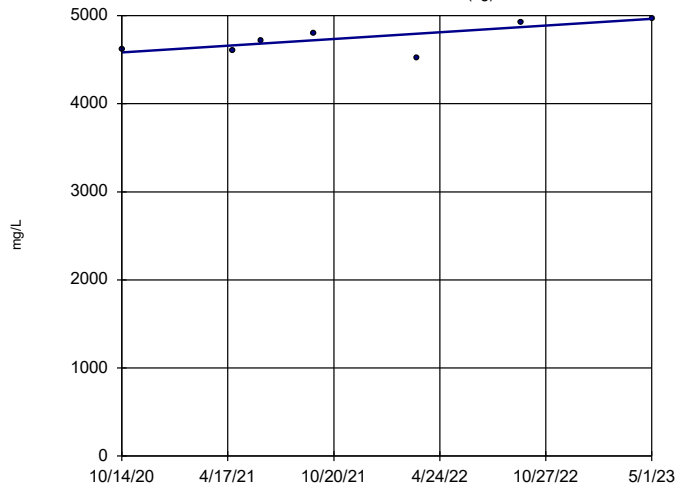


n = 7
 Slope = 44.51 units per year.
 Mann-Kendall statistic = 7
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

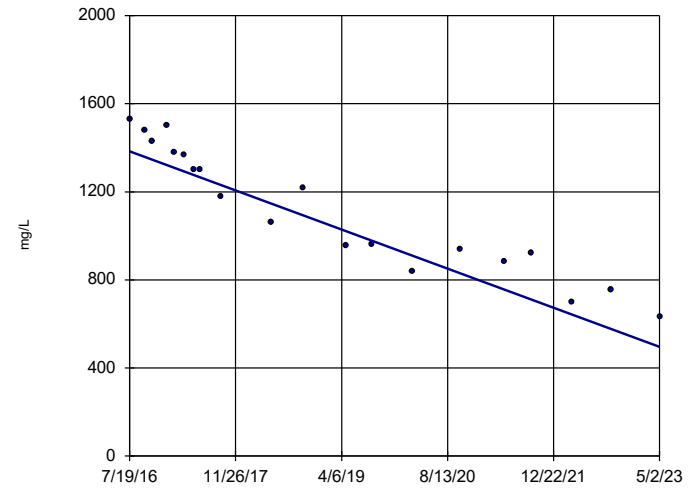


n = 7
 Slope = 149 units per year.
 Mann-Kendall statistic = 11
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

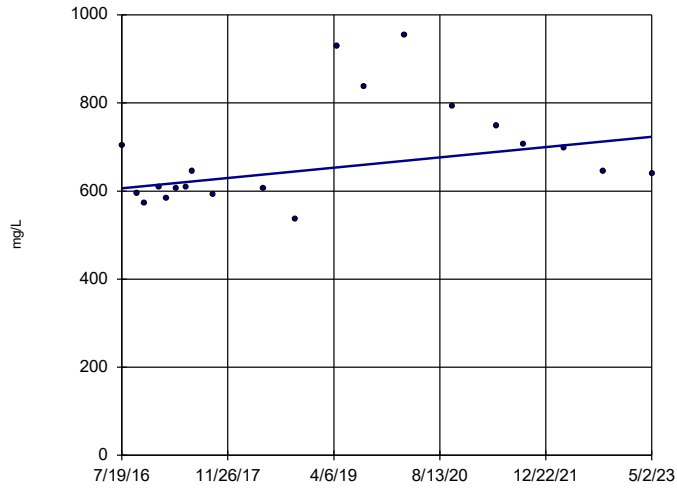


n = 20
 Slope = -130.8 units per year.
 Mann-Kendall statistic = -169
 critical = -81
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

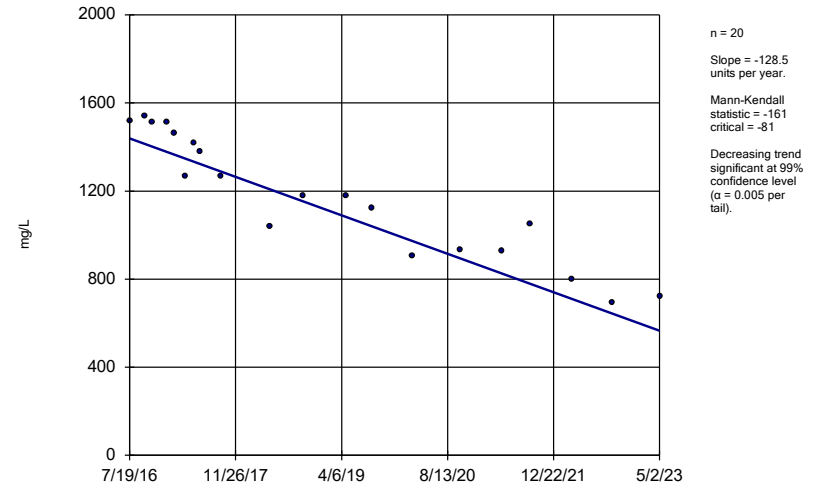
MR-AP-MW-3S



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

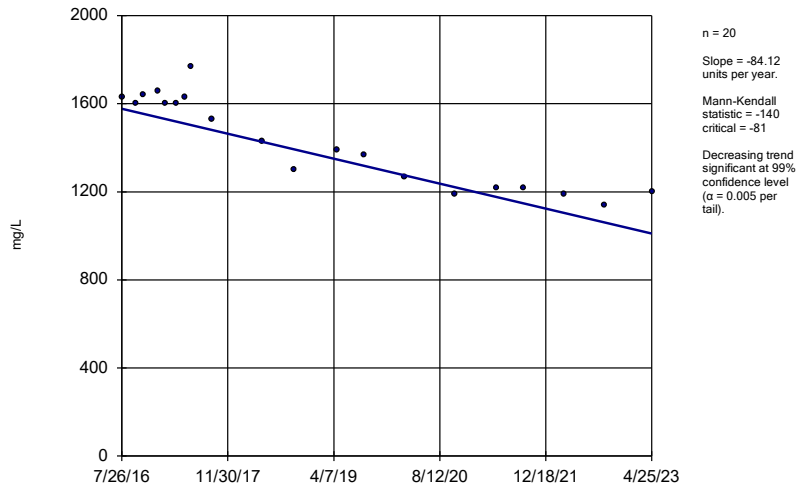
MR-AP-MW-4



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

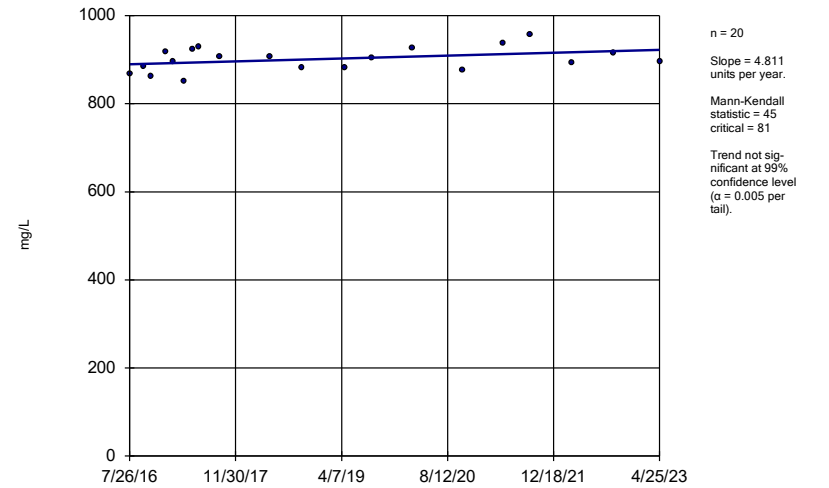
MR-AP-MW-5



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

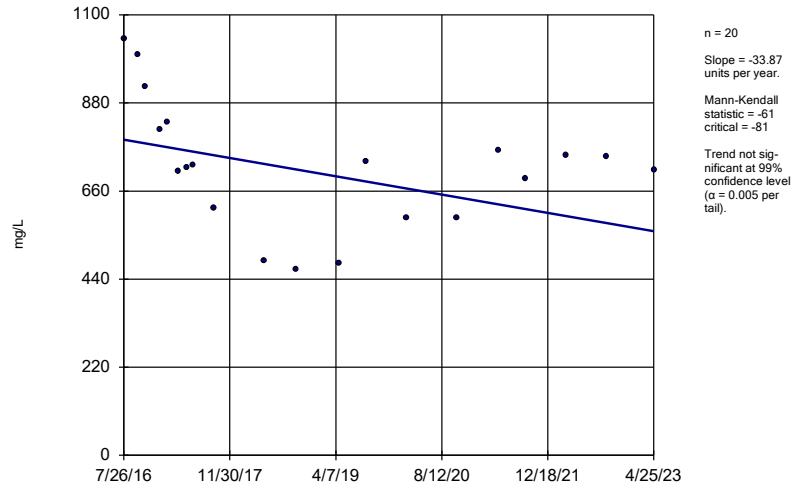
MR-AP-MW-6



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-PZ-5



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/22/2023 7:53 AM View: Appendix III - Trend Tes
Plant Miller Client: Southern Company Data: Miller Ash Pond

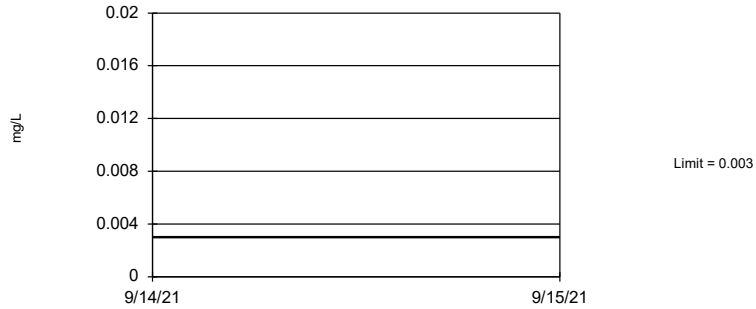
FIGURE G.

Upper Tolerance Limits - Summary Table

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 1/4/2022, 3:38 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	61	n/a	n/a	68.85	n/a	n/a	0.04377	NP Inter
Arsenic (mg/L)	n/a	0.00645	n/a	n/a	n/a	61	n/a	n/a	27.87	n/a	n/a	0.04377	NP Inter
Barium (mg/L)	n/a	12.4	n/a	n/a	n/a	61	n/a	n/a	0	n/a	n/a	0.04377	NP Inter
Beryllium (mg/L)	n/a	0.003	n/a	n/a	n/a	61	n/a	n/a	77.05	n/a	n/a	0.04377	NP Inter
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	61	n/a	n/a	77.05	n/a	n/a	0.04377	NP Inter
Chromium (mg/L)	n/a	0.01	n/a	n/a	n/a	61	n/a	n/a	45.9	n/a	n/a	0.04377	NP Inter
Cobalt (mg/L)	n/a	0.00362	n/a	n/a	n/a	61	n/a	n/a	78.69	n/a	n/a	0.04377	NP Inter
Combined Radium 226 + 228 (pCi/L)	n/a	7.07	n/a	n/a	n/a	61	n/a	n/a	0	n/a	n/a	0.04377	NP Inter
Fluoride, total (mg/L)	n/a	0.436	n/a	n/a	n/a	63	n/a	n/a	0	n/a	n/a	0.0395	NP Inter
Lead (mg/L)	n/a	0.00189	n/a	n/a	n/a	61	n/a	n/a	88.52	n/a	n/a	0.04377	NP Inter
Lithium (mg/L)	n/a	1.2	n/a	n/a	n/a	61	n/a	n/a	18.03	n/a	n/a	0.04377	NP Inter
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	61	n/a	n/a	77.05	n/a	n/a	0.04377	NP Inter
Molybdenum (mg/L)	n/a	0.0127	n/a	n/a	n/a	61	n/a	n/a	31.15	n/a	n/a	0.04377	NP Inter
Selenium (mg/L)	n/a	0.01	n/a	n/a	n/a	61	n/a	n/a	77.05	n/a	n/a	0.04377	NP Inter
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	61	n/a	n/a	77.05	n/a	n/a	0.04377	NP Inter

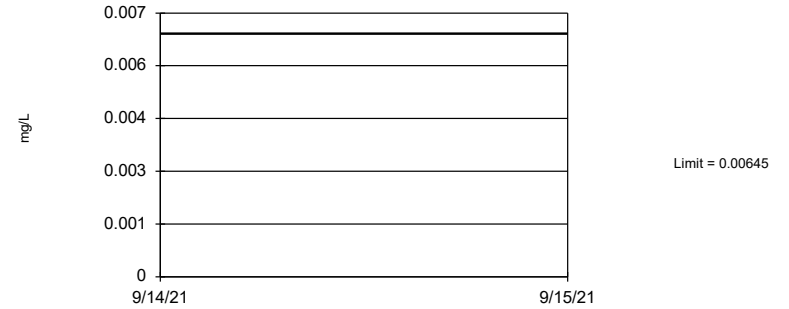
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 68.85% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Antimony Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

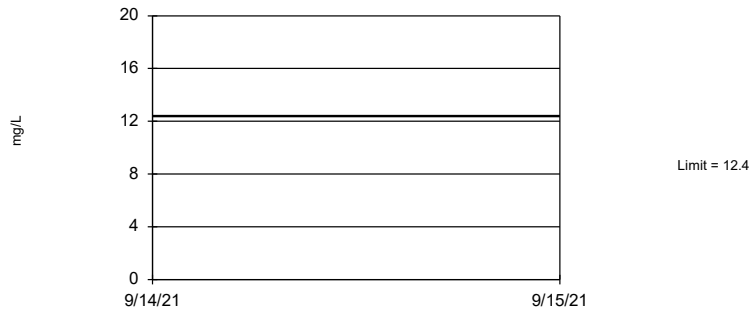
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 27.87% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Arsenic Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

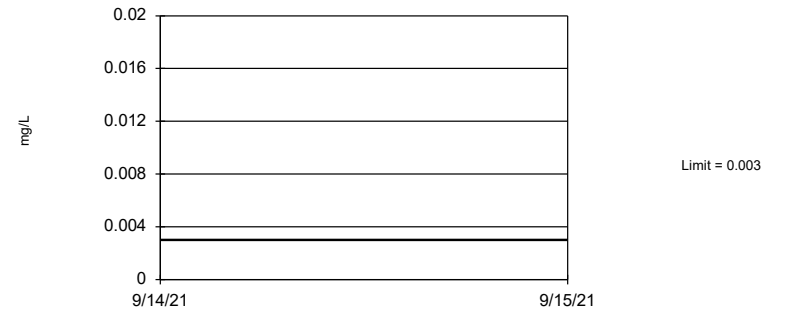
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Barium Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

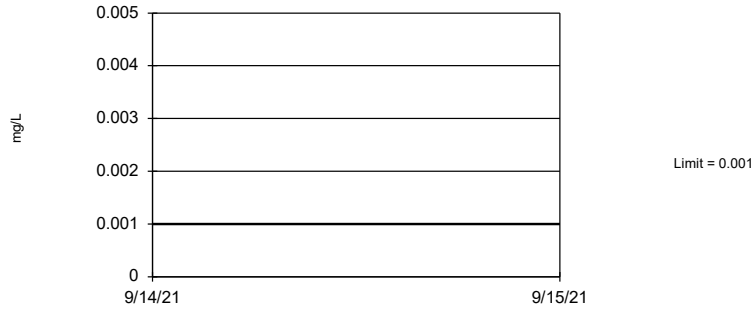
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 77.05% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Beryllium Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 77.05% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Cadmium Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

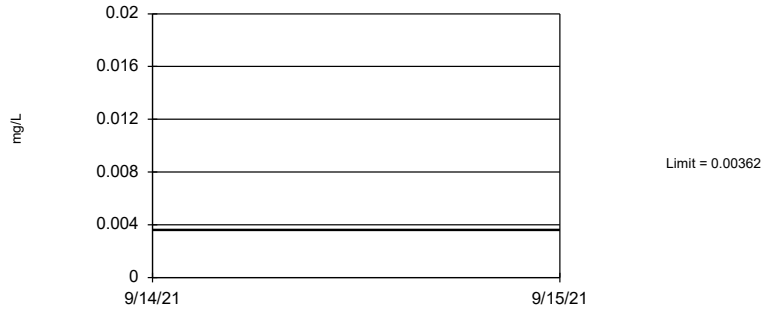
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 45.9% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Chromium Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

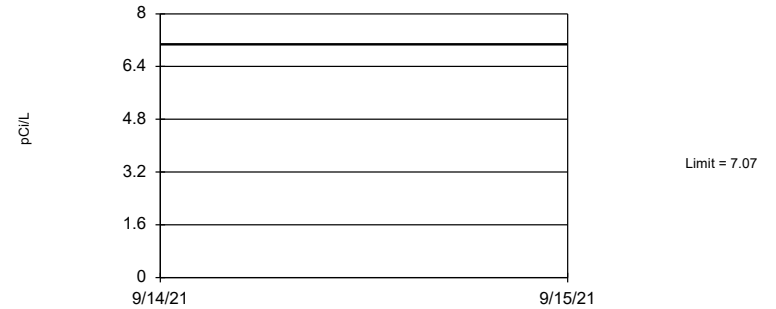
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 78.69% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Cobalt Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

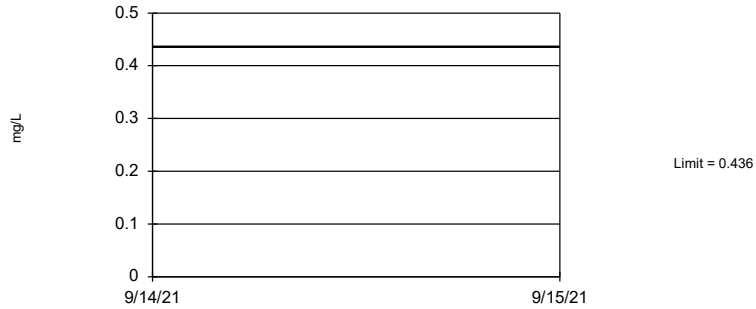
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Combined Radium 226 + 228 Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

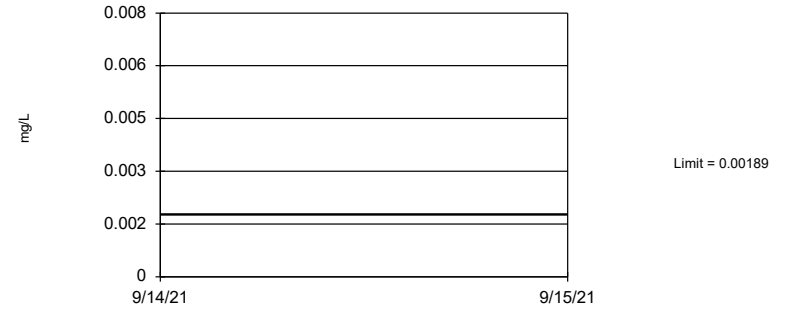
Tolerance Limit
Interwell Non-parametric



NP test selected by user. Limit is highest of 63 background values. 92.77% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0395.

Constituent: Fluoride, total Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

Tolerance Limit
Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 88.52% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Lead Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

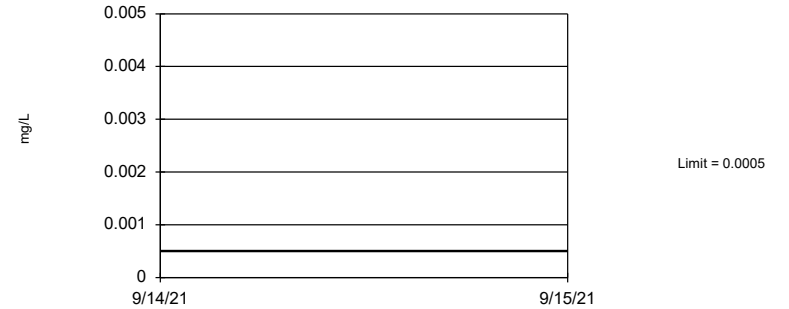
Tolerance Limit
Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 18.03% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Lithium Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

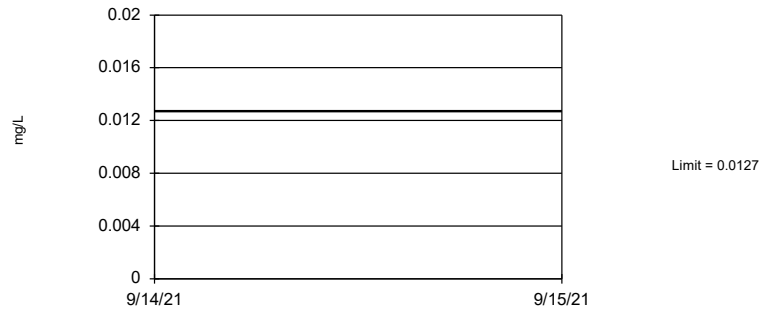
Tolerance Limit
Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 77.05% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Mercury Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 31.15% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Molybdenum Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

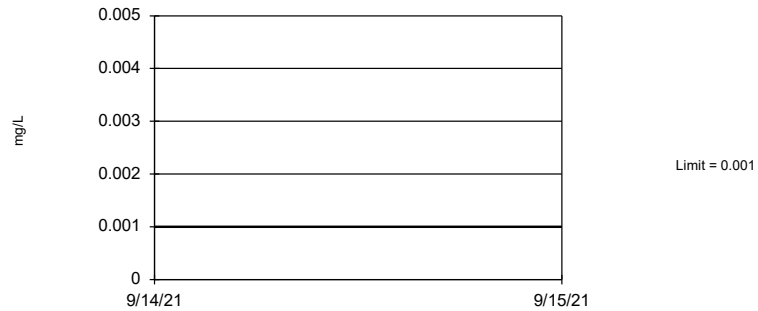
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 77.05% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Selenium Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 61 background values. 77.05% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04377.

Constituent: Thallium Analysis Run 1/4/2022 3:37 PM View: Appendix IV - UTLs
Plant Miller Client: Southern Company Data: Miller Ash Pond

FIGURE H.

MILLER AP GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.00645	0.01
Barium	mg/L	12.4	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	0.00362	0.006
Combined Radium-226/228	pCi/L	7.07	5
Fluoride	mg/L	0.436	4
Lead	mg/L	0.00189	0.015
Lithium	mg/L	1.2	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0127	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

FIGURE I.

Confidence Intervals - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/30/2023, 11:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MR-AP-MW-3D	0.01356	0.01059	0.01	Yes	8	0.01208	0.001397	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-13SR	0.09827	0.03008	0.006	Yes	6	0.06708	0.0306	0	None	x^2	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-2	0.05376	0.03909	0.006	Yes	8	0.04643	0.006918	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-1	0.2292	0.1148	0.04	Yes	8	0.172	0.05398	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-10	0.2817	0.1605	0.04	Yes	8	0.22	0.06295	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.3766	0.1619	0.04	Yes	8	0.2693	0.1012	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-12	0.1932	0.09128	0.04	Yes	8	0.1423	0.04809	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-16	0.1486	0.04779	0.04	Yes	8	0.09821	0.04757	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.273	0.211	0.04	Yes	8	0.2483	0.02696	0	None	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-3D	0.1207	0.09887	0.04	Yes	8	0.1098	0.01031	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3S	0.3468	0.2527	0.04	Yes	8	0.2998	0.04435	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.07907	0.06108	0.04	Yes	8	0.07008	0.008485	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.2404	0.1957	0.04	Yes	8	0.2189	0.02254	0	None	x^6	0.01	Param.
Lithium (mg/L)	MR-AP-MW-6	0.08922	0.07675	0.04	Yes	8	0.08299	0.005883	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7DR	0.1343	0.1047	0.04	Yes	6	0.1195	0.0108	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7SR	0.1711	0.1375	0.04	Yes	6	0.1543	0.01223	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9DR	0.086	0.0638	0.04	Yes	6	0.0749	0.008082	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-PZ-5	0.1711	0.1349	0.04	Yes	8	0.153	0.0171	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-10	0.6932	0.1961	0.1	Yes	8	0.4363	0.2422	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-12	0.961	0.4353	0.1	Yes	8	0.6981	0.248	0	None	No	0.01	Param.

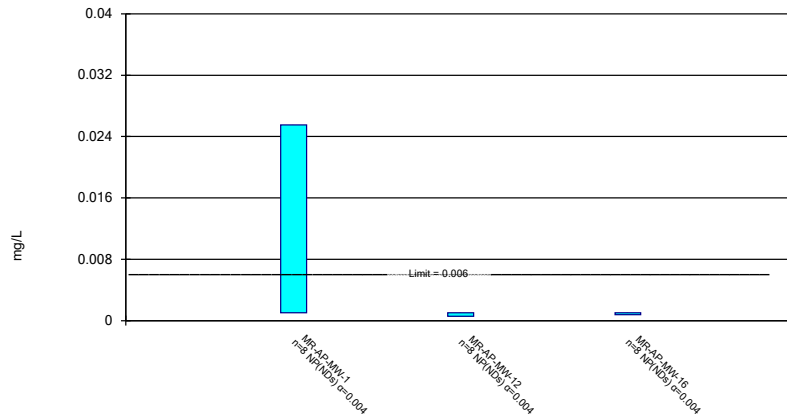
Confidence Intervals - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 6/30/2023, 11:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MR-AP-MW-1	0.0255	0.00102	0.006	No	8	0.00408	0.008655	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-12	0.001015	0.00056	0.006	No	8	0.0009038	0.0002061	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-16	0.001015	0.000768	0.006	No	8	0.0009841	0.00008733	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-1	0.0058	0.00202	0.01	No	8	0.002806	0.001302	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-10	0.061	0.00142	0.01	No	8	0.01573	0.02197	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-11	0.000203	0.00008	0.01	No	8	0.0001517	0.00005685	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-12	0.00764	0.003487	0.01	No	8	0.005564	0.001959	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13DR	0.005	0.000396	0.01	No	6	0.001292	0.00182	16.67	None	No	0.0155	NP (normality)
Arsenic (mg/L)	MR-AP-MW-13SR	0.005	0.00109	0.01	No	6	0.002027	0.00148	16.67	None	No	0.0155	NP (normality)
Arsenic (mg/L)	MR-AP-MW-14R	0.005	0.000139	0.01	No	6	0.001005	0.001958	16.67	None	No	0.0155	NP (normality)
Arsenic (mg/L)	MR-AP-MW-15	0.005	0.00042	0.01	No	8	0.002397	0.002179	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-16	0.005	0.000509	0.01	No	8	0.002641	0.002111	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-2	0.00467	0.002487	0.01	No	8	0.003579	0.00103	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-3D	0.01356	0.01059	0.01	Yes	8	0.01208	0.001397	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-3S	0.0025	0.000735	0.01	No	8	0.001373	0.0007389	12.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-4	0.005	0.000146	0.01	No	8	0.002056	0.00244	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-5	0.01287	0.009044	0.01	No	8	0.01096	0.001806	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-6	0.000203	0.000104	0.01	No	8	0.0001803	0.00004234	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-7DR	0.00402	0.000191	0.01	No	6	0.001683	0.001923	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-7SR	0.002631	0.001502	0.01	No	6	0.002067	0.0004108	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-9DR	0.005	0.000541	0.01	No	6	0.001363	0.001785	16.67	None	No	0.0155	NP (normality)
Arsenic (mg/L)	MR-AP-MW-9SR	0.001449	0.0005009	0.01	No	6	0.0009752	0.0003453	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-PZ-5	0.00119	0.0001074	0.01	No	8	0.0006013	0.0005836	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MR-AP-MW-1	0.1565	0.02518	2	No	8	0.09086	0.06197	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-10	0.01835	0.01369	2	No	8	0.01603	0.002445	0	None	x^2	0.01	Param.
Barium (mg/L)	MR-AP-MW-11	0.04139	0.02686	2	No	8	0.03413	0.006852	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-12	0.01875	0.0144	2	No	8	0.01658	0.002052	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13DR	0.1313	0.03263	2	No	6	0.08195	0.0359	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13SR	0.04161	0.01166	2	No	6	0.02663	0.0109	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-14R	0.116	0.0998	2	No	6	0.1036	0.006242	0	None	No	0.0155	NP (normality)
Barium (mg/L)	MR-AP-MW-15	0.05003	0.02549	2	No	8	0.03776	0.01157	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-16	0.02907	0.01871	2	No	8	0.02389	0.004886	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-2	0.01887	0.01573	2	No	8	0.0173	0.00148	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-3D	0.03278	0.02509	2	No	8	0.02894	0.003626	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-3S	0.395	0.146	2	No	8	0.2156	0.09979	0	None	No	0.004	NP (normality)
Barium (mg/L)	MR-AP-MW-4	0.01629	0.01191	2	No	8	0.0141	0.002068	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-5	0.01775	0.0154	2	No	8	0.01658	0.001113	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-6	0.02616	0.02259	2	No	8	0.02438	0.001682	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7DR	0.03182	0.02478	2	No	6	0.0283	0.002565	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7SR	0.04571	0.03756	2	No	6	0.04163	0.002966	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-9DR	0.04186	-0.01907	2	No	6	0.03313	0.009299	0	None	x^5	0.01	Param.
Barium (mg/L)	MR-AP-MW-9SR	0.02512	0.01532	2	No	6	0.0199	0.003936	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MR-AP-PZ-5	0.2616	0.1811	2	No	8	0.2214	0.03796	0	None	No	0.01	Param.
Beryllium (mg/L)	MR-AP-MW-13SR	0.002578	0.001116	0.004	No	6	0.001708	0.0006311	33.33	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MR-AP-MW-10	0.000203	0.00009	0.005	No	8	0.0001758	0.0000505	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-12	0.000203	0.0000927	0.005	No	8	0.0001735	0.0000446	62.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-13SR	0.0005102	-0.00001377	0.005	No	6	0.0002735	0.000168	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MR-AP-MW-4	0.000203	0.000073	0.005	No	8	0.0001714	0.00005859	75	Kaplan-Meier	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-1	0.006625	0.001254	0.1	No	8	0.003823	0.003018	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-10	0.00139	0.000411	0.1	No	8	0.0008459	0.0003603	50	None	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-11	0.001015	0.00027	0.1	No	8	0.0007484	0.0003692	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-12	0.001243	0.0002815	0.1	No	8	0.0009838	0.0005415	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-13DR	0.0005986	0.0001449	0.1	No	6	0.0005878	0.0003659	33.33	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	MR-AP-MW-13SR	0.0006239	0.0001431	0.1	No	6	0.000594	0.0003617	33.33	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	MR-AP-MW-14R	0.001015	0.000239	0.1	No	6	0.00068	0.0003725	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	MR-AP-MW-15	0.001015	0.000243	0.1	No	8	0.000741	0.0003789	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-16	0.001015	0.00067	0.1	No	8	0.0009719	0.000122	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-2	0.001015	0.00021	0.1	No	8	0.0008513	0.0003136	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-3D	0.001015	0.00027	0.1	No	8	0.000751	0.0003648	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-3S	0.01	0.00034	0.1	No	8	0.004079	0.004906	37.5	None	No	0.004	NP (normality)

Non-Parametric Confidence Interval

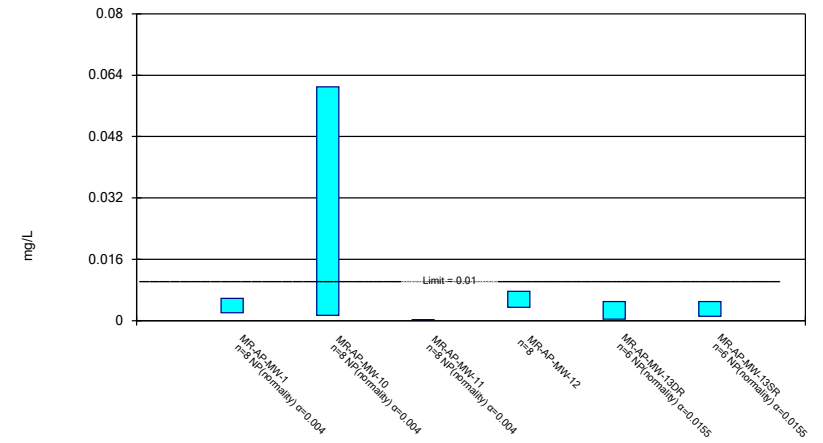
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 6/30/2023 11:27 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

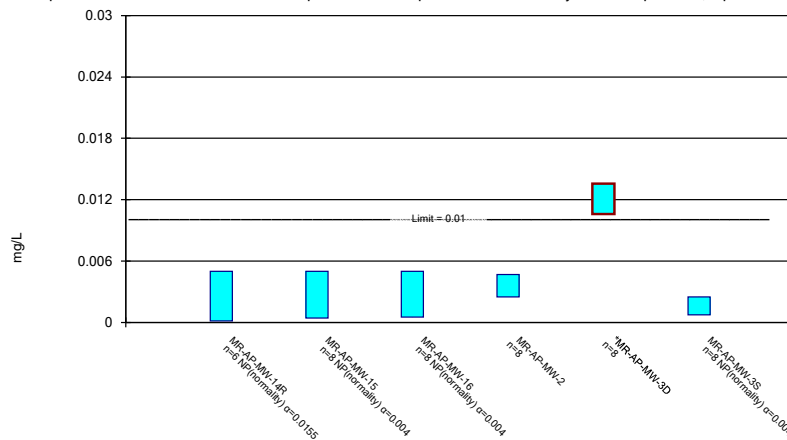
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/30/2023 11:27 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

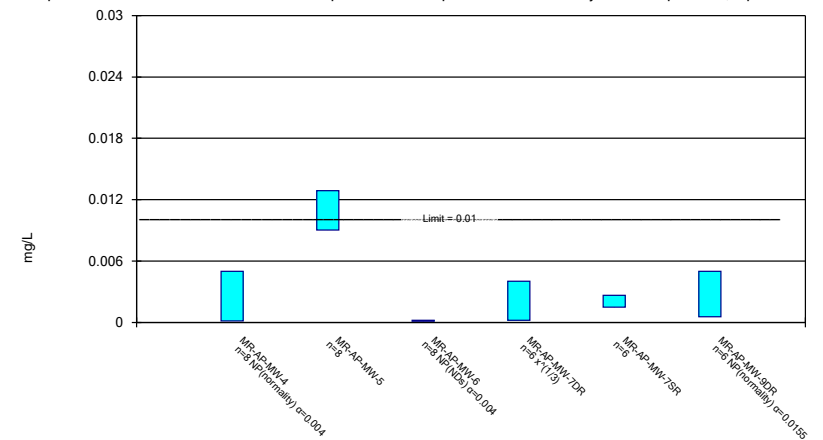
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

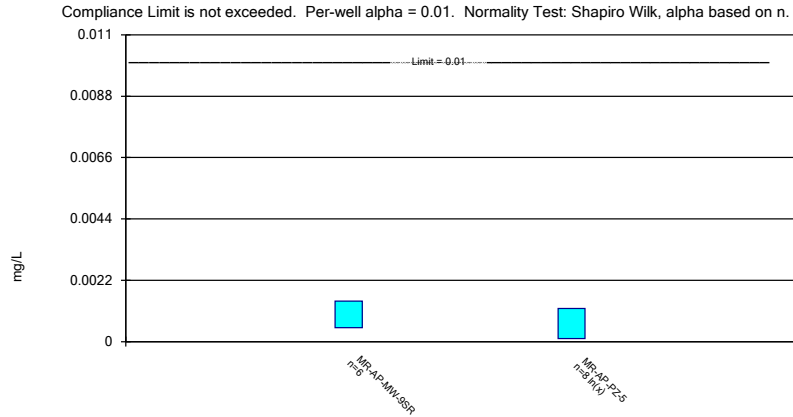
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



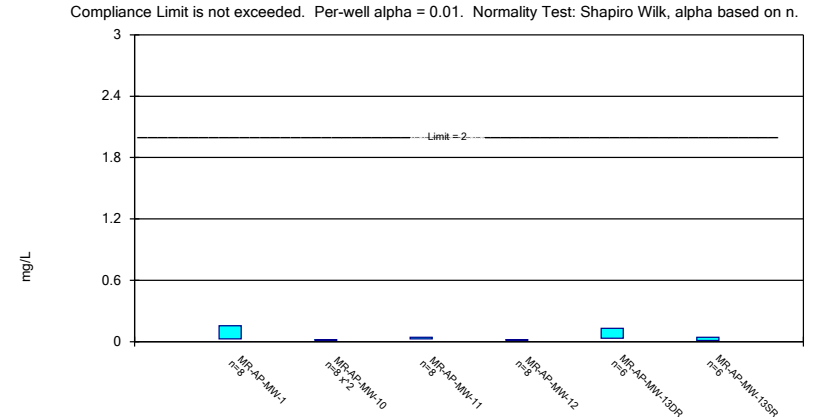
Constituent: Arsenic Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval



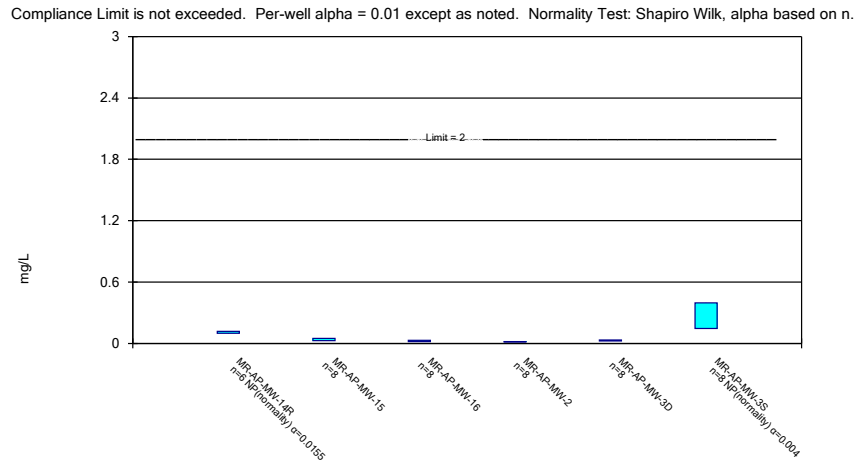
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 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval



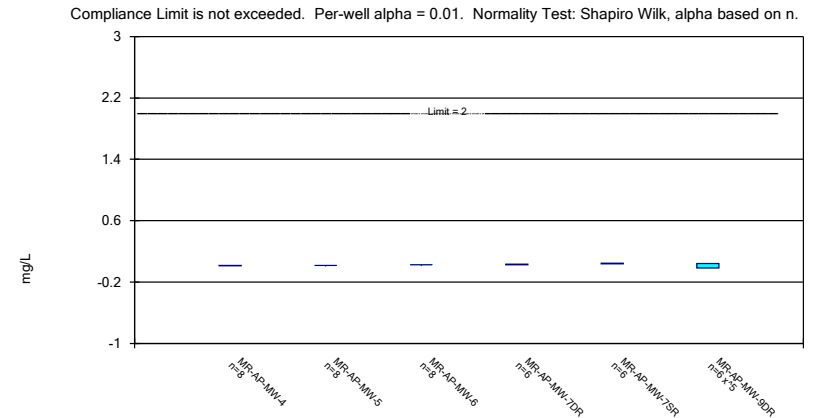
Constituent: Barium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval



Constituent: Barium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

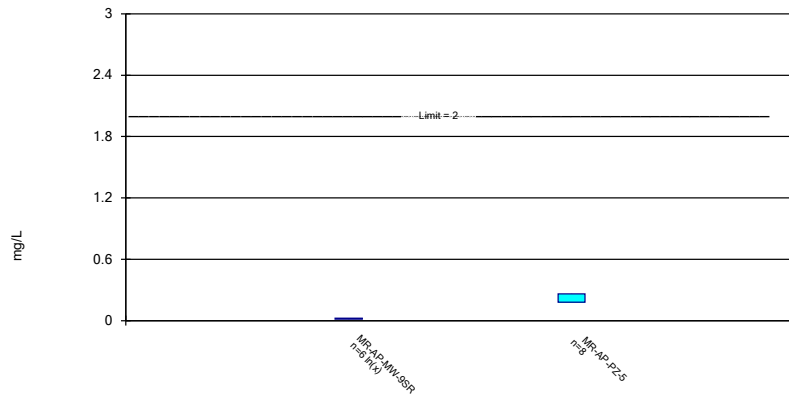
Parametric Confidence Interval



Constituent: Barium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

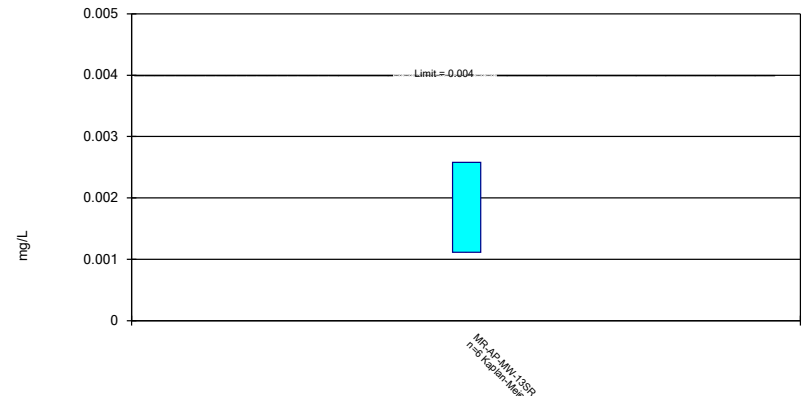
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Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

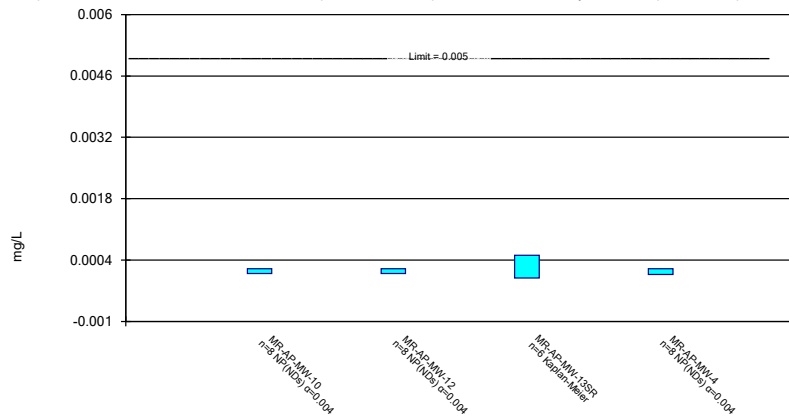
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

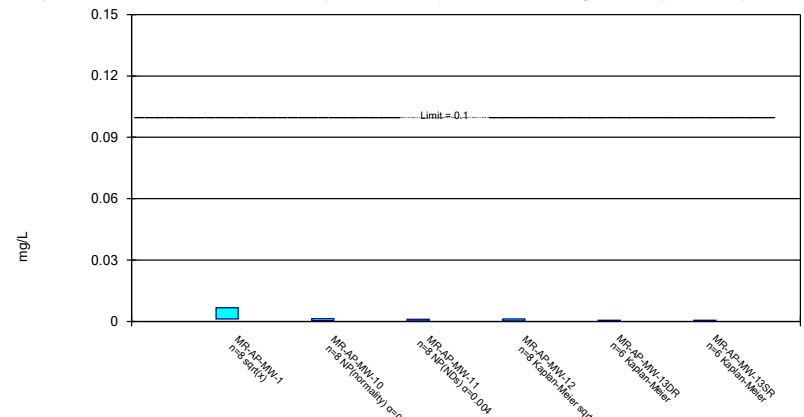
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

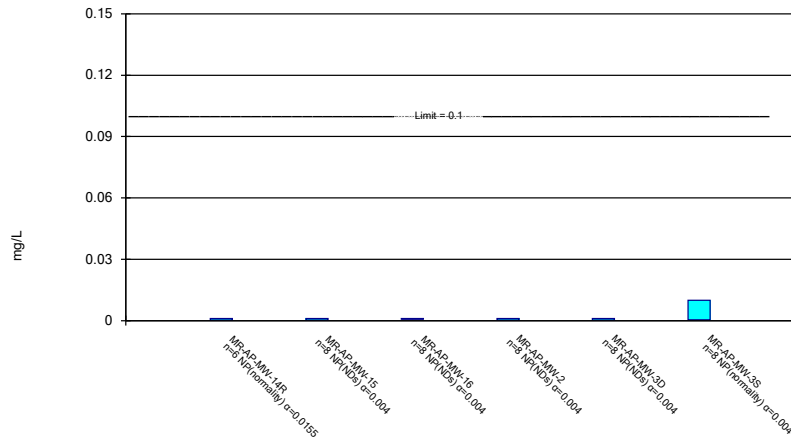
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Non-Parametric Confidence Interval

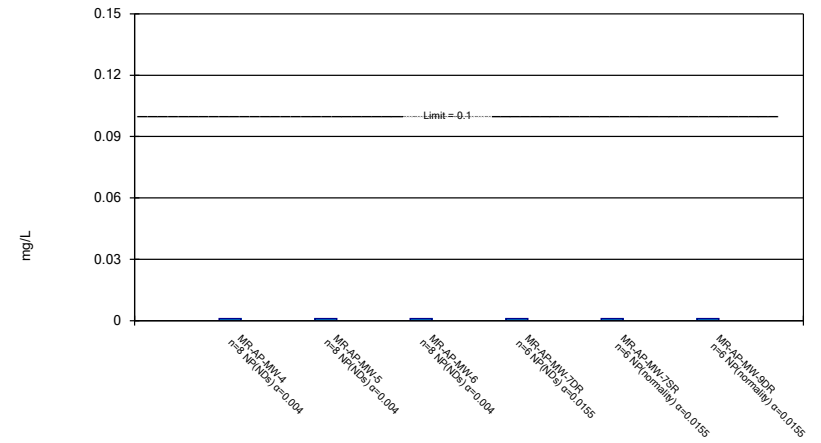
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Non-Parametric Confidence Interval

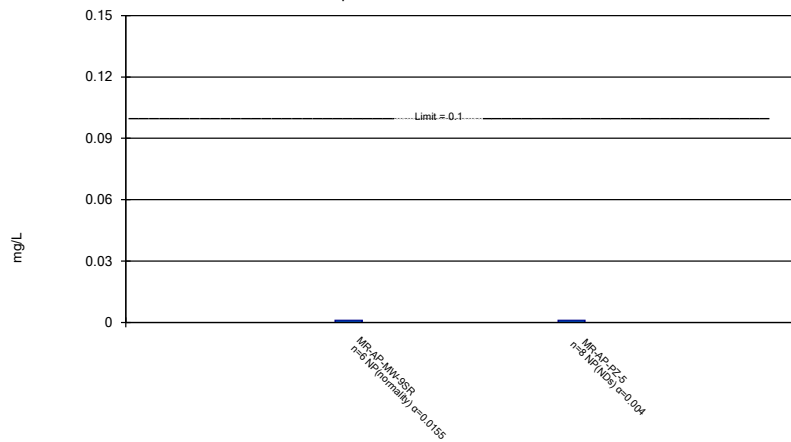
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Non-Parametric Confidence Interval

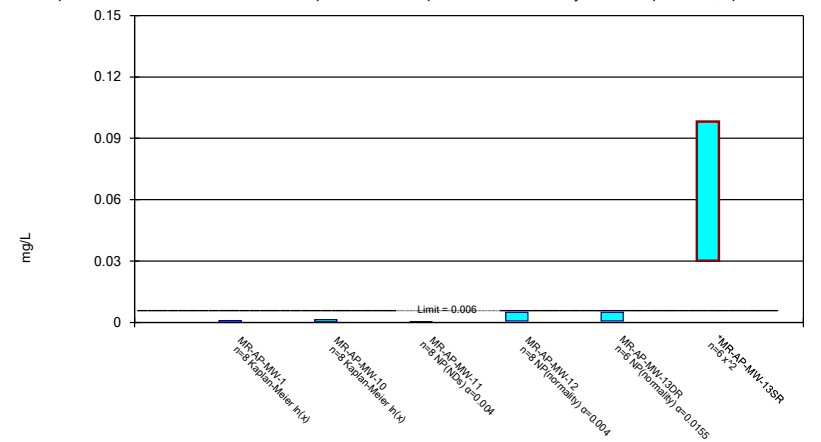
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

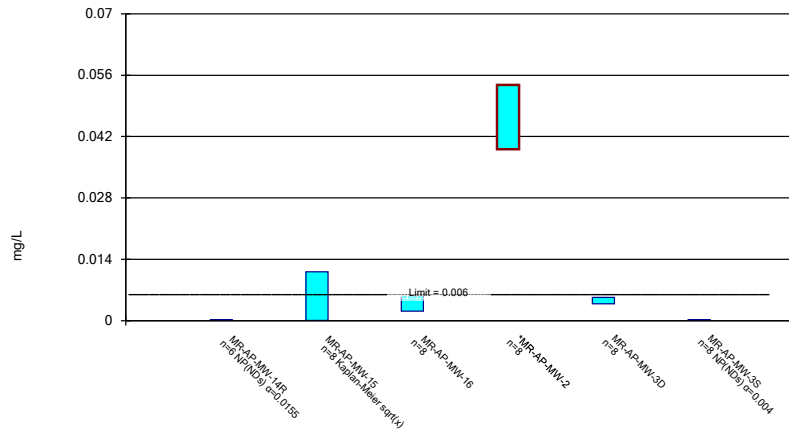
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

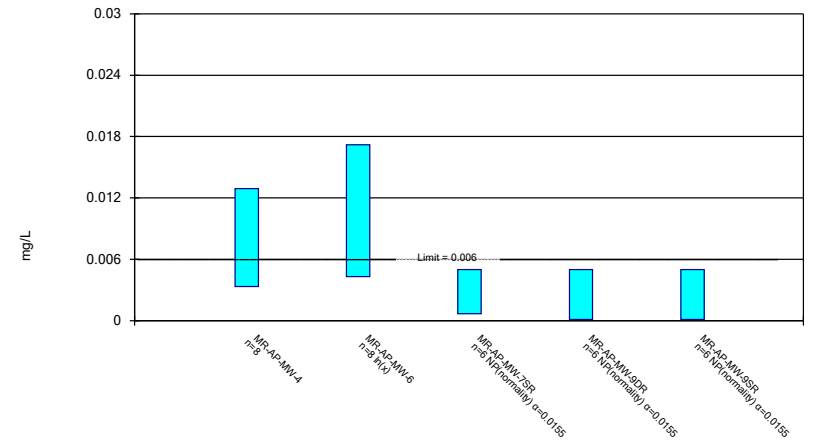
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

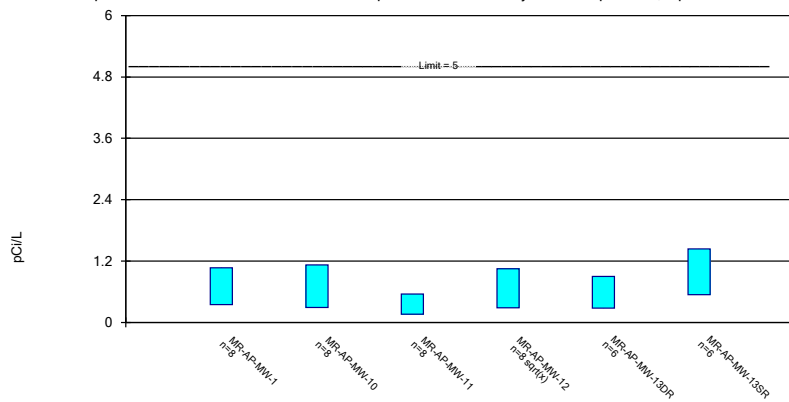
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

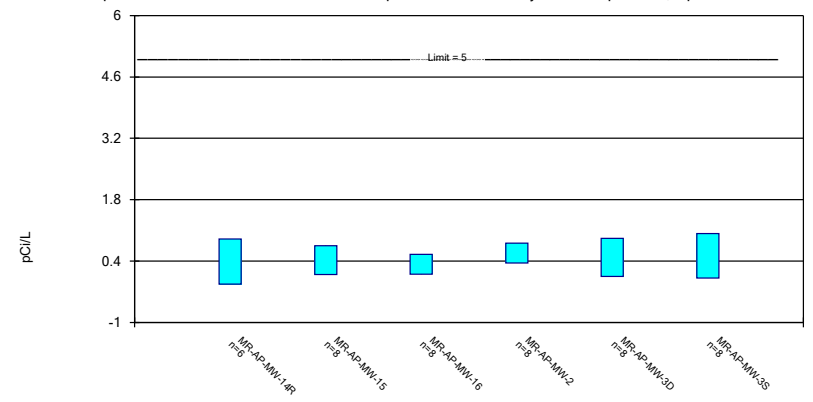
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confide
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

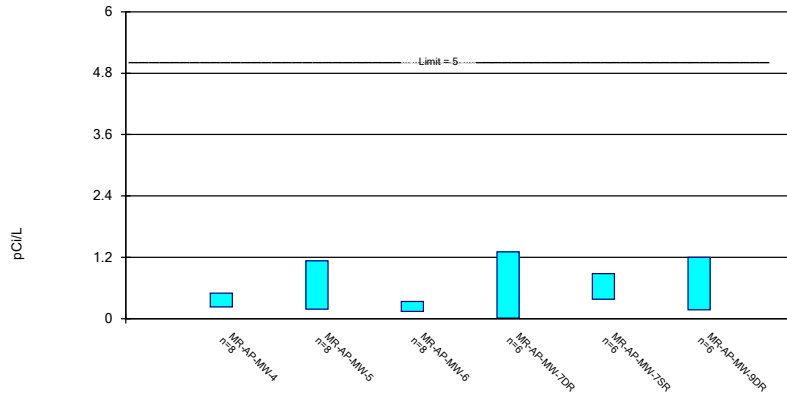
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Constituent: Combined Radium 226 + 228 Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confide
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

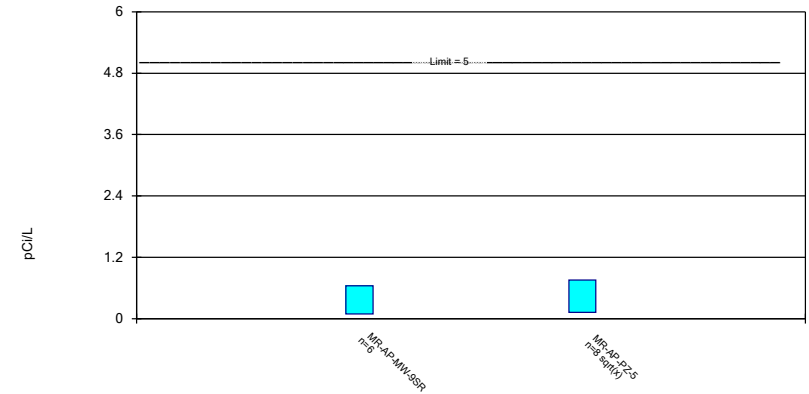
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Constituent: Combined Radium 226 + 228 Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confide
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

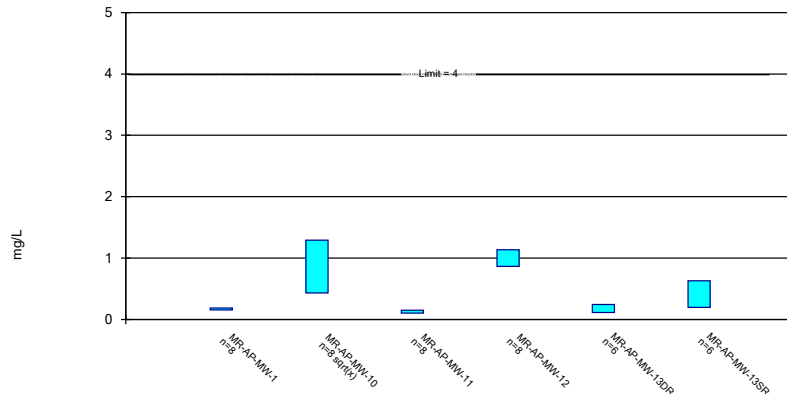
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Constituent: Combined Radium 226 + 228 Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confide
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

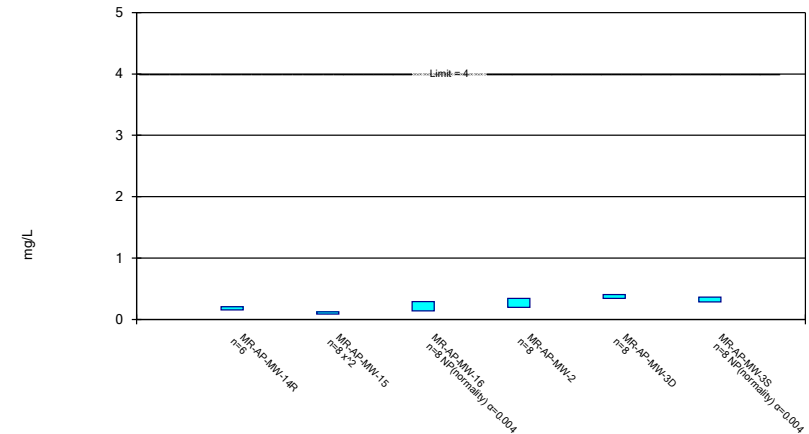
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

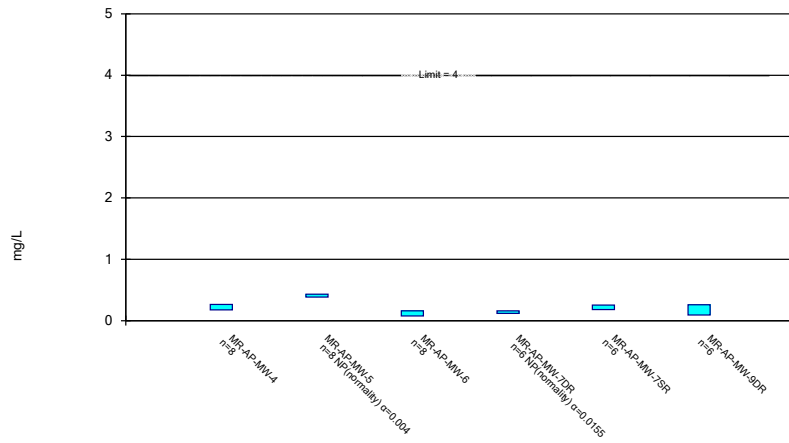
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

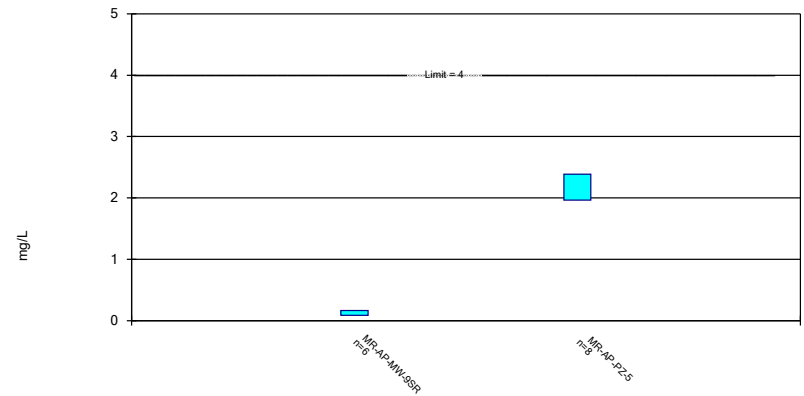
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Constituent: Fluoride, total Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

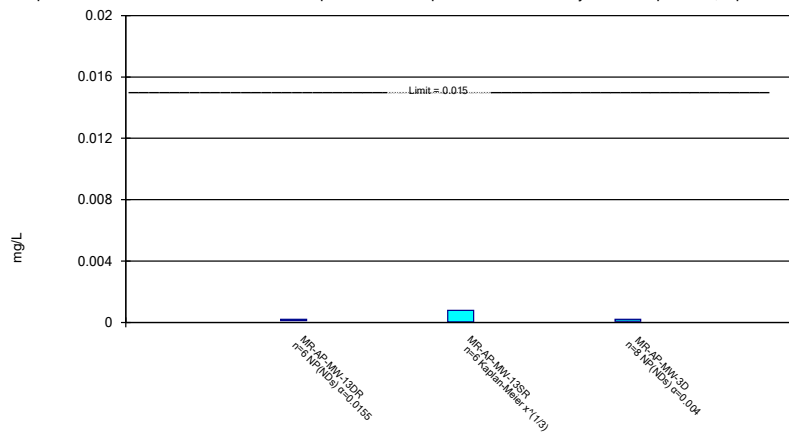
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

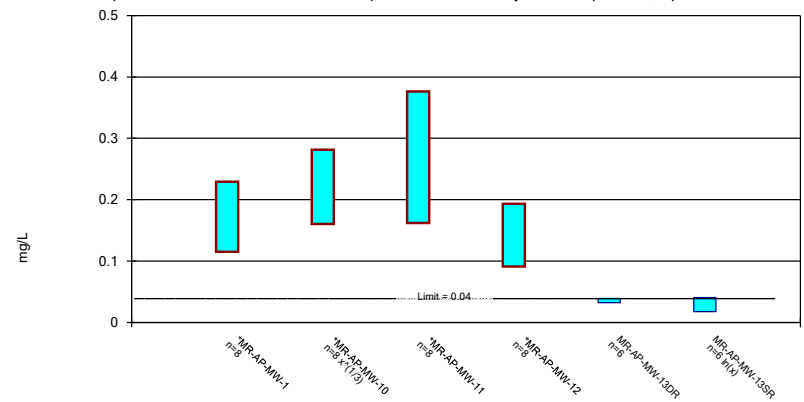
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

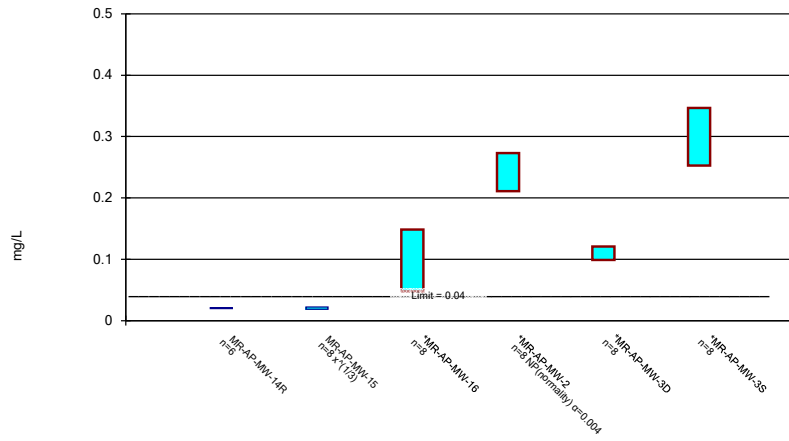
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

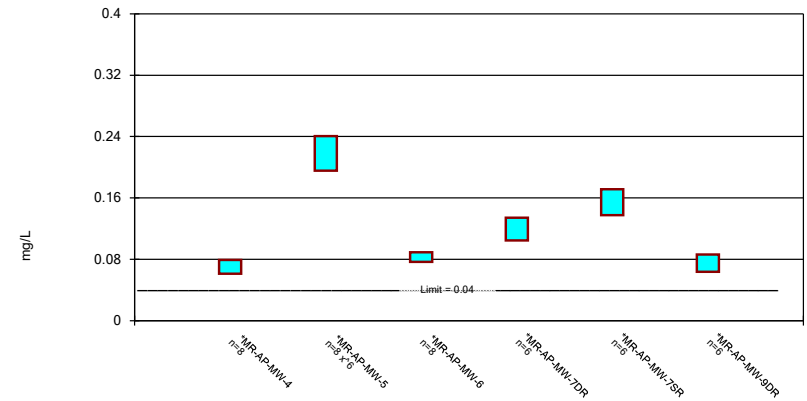
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

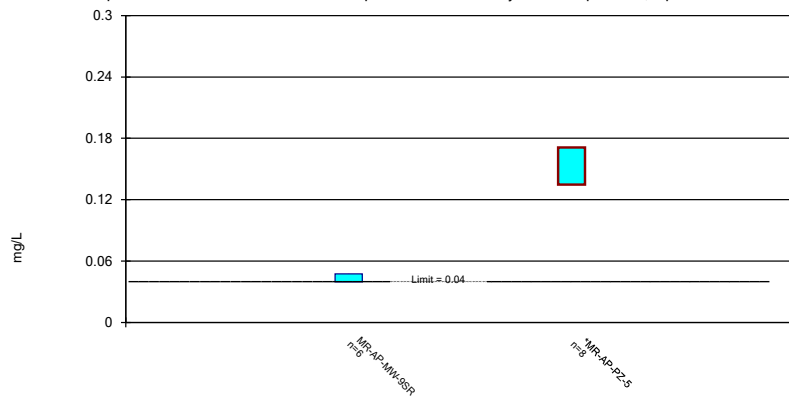
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric Confidence Interval

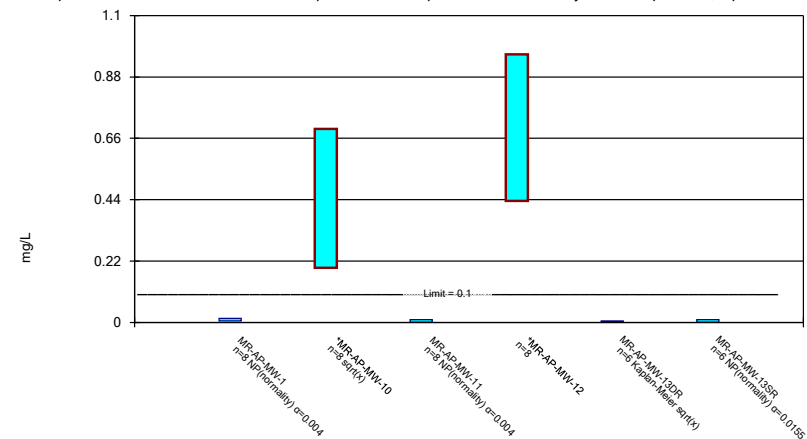
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Constituent: Lithium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

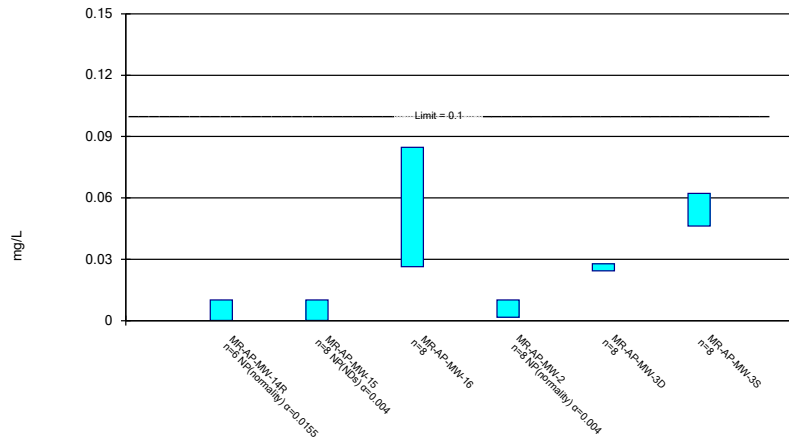
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Constituent: Molybdenum Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

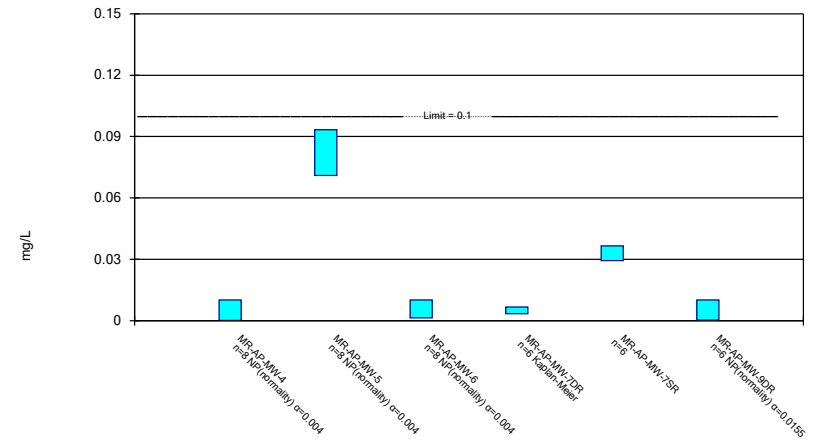
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Constituent: Molybdenum Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

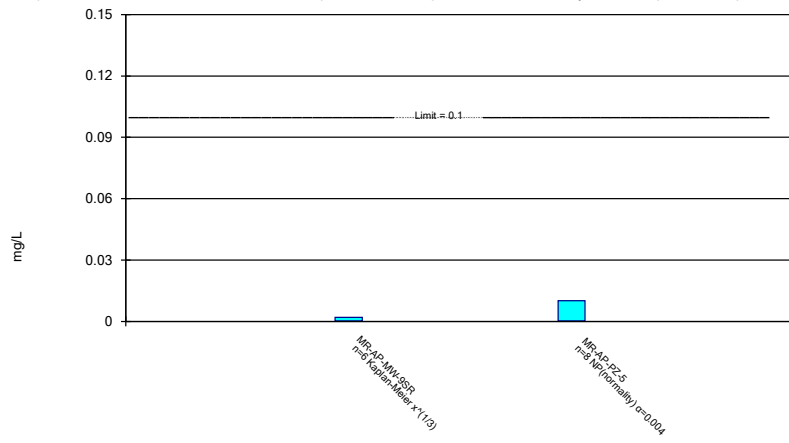
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Constituent: Molybdenum Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

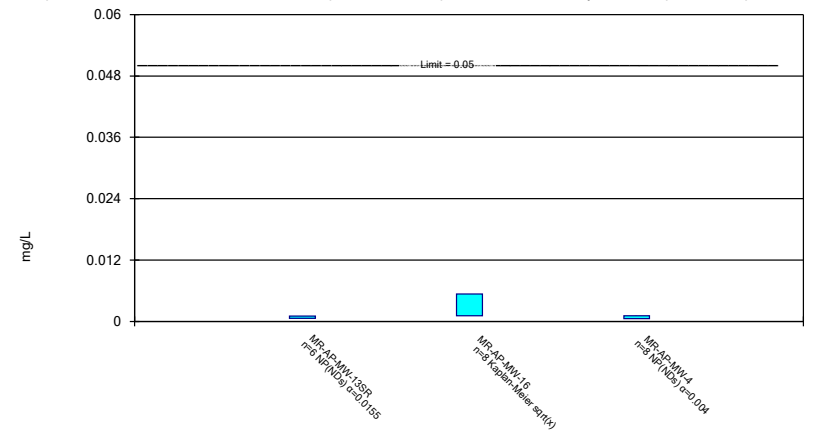
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

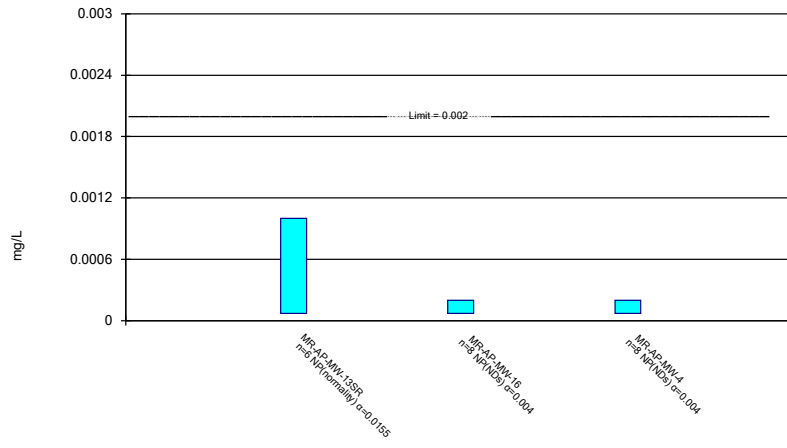
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 6/30/2023 11:28 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-12	MR-AP-MW-16
8/27/2019	<0.00102		
8/28/2019		<0.001015	<0.001015
3/3/2020			<0.001015
3/9/2020	<0.00102		
3/10/2020		<0.001015	
10/13/2020			<0.001015
10/19/2020	<0.00102	<0.001015	
4/20/2021	<0.00102		
4/21/2021			0.000768 (J)
5/5/2021		<0.001015	
9/1/2021			<0.001015
9/7/2021		0.00056 (J)	
9/8/2021	<0.00102		
3/8/2022			<0.001015
3/15/2022	<0.00102		
3/17/2022		0.00058 (J)	
9/19/2022	<0.00102		
9/20/2022			<0.001015
9/26/2022		<0.001015	
4/19/2023			<0.001015
5/2/2023	0.0255		
5/3/2023		<0.001015	
Mean	0.00408	0.0009038	0.0009841
Std. Dev.	0.008655	0.0002061	8.733E-05
Upper Lim.	0.0255	0.001015	0.001015
Lower Lim.	0.00102	0.00056	0.000768

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
8/27/2019	0.00211 (J)					
8/28/2019			<0.000203	0.00297 (J)		
8/29/2019		0.00177 (J)				
3/3/2020			<0.000203			
3/9/2020	0.0058	0.0018 (J)				
3/10/2020				0.00353 (J)		
10/19/2020	0.00351 (J)	0.00186 (J)		0.00463 (J)		
10/20/2020			<0.000203		<0.005	<0.005
4/20/2021	0.00225					
4/21/2021			8.14E-05 (J)		0.000396	0.00109
5/3/2021		0.00142				
5/5/2021				0.00514		
9/7/2021				0.00507	0.00041	0.0013
9/8/2021	0.00219					
9/14/2021			8E-05 (J)			
9/15/2021		0.0016				
3/9/2022					0.00066	0.00155
3/15/2022	0.0021					
3/16/2022			0.00012 (J)			
3/17/2022		0.061		0.0078		
9/19/2022	0.00247				0.000629	0.00187
9/20/2022			0.00012 (J)			
9/26/2022		0.0323		0.00709		
4/18/2023					0.00066	0.00135
5/2/2023	0.00202					
5/3/2023		0.0241	<0.000203	0.00828		
Mean	0.002806	0.01573	0.0001517	0.005564	0.001292	0.002027
Std. Dev.	0.001302	0.02197	5.685E-05	0.001959	0.00182	0.00148
Upper Lim.	0.0058	0.061	0.000203	0.00764	0.005	0.005
Lower Lim.	0.00202	0.00142	8E-05	0.003487	0.000396	0.00109

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
8/27/2019				0.00194 (J)	0.0111	0.00222 (J)
8/28/2019		<0.005	<0.005			
3/3/2020			<0.005	0.00238 (J)	0.0118	0.00199 (J)
3/4/2020		<0.005				
10/13/2020		<0.005	<0.005		0.015	<0.005
10/20/2020	<0.005					
10/21/2020				0.00346 (J)		
4/21/2021	0.000288		0.000891			
4/26/2021		0.000665		0.00346		
5/5/2021					0.0116	0.000735
9/1/2021		0.00083	0.0009			
9/7/2021					0.011	0.00088
9/13/2021	0.00023					
9/14/2021				0.0043		
3/8/2022			0.00073			
3/9/2022	0.00019 (J)	0.00042				
3/16/2022				0.00394	0.0107	0.00074
9/19/2022					0.0128	0.000783
9/20/2022		0.00153	0.0031			
9/26/2022	0.000183 (J)			0.00401		
4/19/2023		0.000728	0.000509			
5/2/2023	0.000139 (J)			0.00514	0.0126	0.00114
Mean	0.001005	0.002397	0.002641	0.003579	0.01208	0.001373
Std. Dev.	0.001958	0.002179	0.002111	0.00103	0.001397	0.0007389
Upper Lim.	0.005	0.005	0.005	0.00467	0.01356	0.0025
Lower Lim.	0.000139	0.00042	0.000509	0.002487	0.01059	0.000735

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
8/27/2019	<0.005					
8/28/2019		0.0107	<0.000203			
3/2/2020		0.0122				
3/3/2020			<0.000203			
3/4/2020	<0.005					
10/14/2020	<0.005					
10/15/2020						<0.005
10/20/2020			<0.000203	0.00547	0.00251 (J)	
10/21/2020		0.0145				
4/26/2021	0.000368					
4/27/2021				0.00188	0.00254	0.000587
4/28/2021			0.000104 (J)			
5/3/2021		0.0111				
9/1/2021	0.0004		<0.000203	0.00098	0.0022	0.00056
9/8/2021		0.0112				
3/8/2022				0.00061	0.00177	0.00086
3/14/2022		0.00987				
3/15/2022	0.0002 (J)					
3/16/2022			0.00012 (J)			
9/20/2022		0.00931		0.000694	0.00182	
9/21/2022			<0.000203			0.000632
9/26/2022	0.000331					
4/24/2023				0.000465	0.00156	
4/25/2023		0.00879	<0.000203			
5/2/2023	0.000146 (J)					
5/3/2023						0.000541
Mean	0.002056	0.01096	0.0001803	0.001683	0.002067	0.001363
Std. Dev.	0.00244	0.001806	4.234E-05	0.001923	0.0004108	0.001785
Upper Lim.	0.005	0.01287	0.000203	0.00402	0.002631	0.005
Lower Lim.	0.000146	0.009044	0.000104	0.000191	0.001502	0.000541

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
8/29/2019		0.00123 (J)
3/2/2020		0.0013 (J)
10/15/2020	0.0016 (J)	
10/21/2020		0.00137 (J)
4/27/2021	0.00112	
5/3/2021		0.000109 (J)
9/1/2021	0.0009	
9/8/2021		0.00021
3/8/2022	0.00079	
3/14/2022		9E-05 (J)
9/20/2022		0.00031
9/21/2022	0.000807	
4/25/2023		0.000191 (J)
5/3/2023	0.000634	
Mean	0.0009752	0.0006013
Std. Dev.	0.0003453	0.0005836
Upper Lim.	0.001449	0.00119
Lower Lim.	0.0005009	0.0001074

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
8/27/2019	0.0555					
8/28/2019			0.0387	0.0177		
8/29/2019		0.0185				
3/3/2020			0.029			
3/9/2020	0.0285	0.0175				
3/10/2020				0.015		
10/19/2020	0.0295	0.0168		0.0157		
10/20/2020			0.0414		0.144	0.0466
4/20/2021	0.0454					
4/21/2021			0.0401		0.104	0.0286
5/3/2021		0.0147				
5/5/2021				0.0136		
9/7/2021				0.0191	0.0749	0.0277
9/8/2021	0.101					
9/14/2021			0.0392			
9/15/2021		0.017				
3/9/2022					0.0618	0.0216
3/15/2022	0.12					
3/16/2022			0.031			
3/17/2022		0.0106		0.0149		
9/19/2022	0.199				0.0576	0.019
9/20/2022			0.0318			
9/26/2022		0.0169		0.019		
4/18/2023					0.0494	0.0163
5/2/2023	0.148					
5/3/2023		0.0162	0.0218	0.0176		
Mean	0.09086	0.01603	0.03413	0.01658	0.08195	0.02663
Std. Dev.	0.06197	0.002445	0.006852	0.002052	0.0359	0.0109
Upper Lim.	0.1565	0.01835	0.04139	0.01875	0.1313	0.04161
Lower Lim.	0.02518	0.01369	0.02686	0.0144	0.03263	0.01166

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
8/27/2019				0.0177	0.0334	0.395
8/28/2019		0.0424	0.0208			
3/3/2020			0.03	0.0172	0.0304	0.347
3/4/2020		0.0544				
10/13/2020		0.0522	0.0322		0.0293	0.22
10/20/2020	0.116					
10/21/2020				0.0185		
4/21/2021	0.0998		0.02			
4/26/2021		0.0308		0.0167		
5/5/2021					0.0247	0.149
9/1/2021		0.0298	0.0243			
9/7/2021					0.0259	0.17
9/13/2021	0.104					
9/14/2021				0.0197		
3/8/2022			0.0206			
3/9/2022	0.101	0.0275				
3/16/2022				0.0147	0.0247	0.149
9/19/2022					0.0339	0.146
9/20/2022		0.0414	0.0243			
9/26/2022	0.1			0.0164		
4/19/2023		0.0236	0.0189			
5/2/2023	0.101			0.0175	0.0292	0.149
Mean	0.1036	0.03776	0.02389	0.0173	0.02894	0.2156
Std. Dev.	0.006242	0.01157	0.004886	0.00148	0.003626	0.09979
Upper Lim.	0.116	0.05003	0.02907	0.01887	0.03278	0.395
Lower Lim.	0.0998	0.02549	0.01871	0.01573	0.02509	0.146

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
8/27/2019	0.014					
8/28/2019		0.0158	0.0269			
3/2/2020		0.0155				
3/3/2020			0.0257			
3/4/2020	0.0137					
10/14/2020	0.0127					
10/15/2020						0.0408
10/20/2020			0.0252	0.0331	0.0466	
10/21/2020		0.0173				
4/26/2021	0.0115					
4/27/2021				0.0262	0.0421	0.0368
4/28/2021			0.0241			
5/3/2021		0.015				
9/1/2021	0.0129		0.0251	0.028	0.043	0.0394
9/8/2021		0.0175				
3/8/2022				0.0261	0.0403	0.0393
3/14/2022		0.0162				
3/15/2022	0.0137					
3/16/2022			0.0228			
9/20/2022		0.0171		0.0287	0.0384	
9/21/2022			0.0217			0.0208
9/26/2022	0.0165					
4/24/2023				0.0277	0.0394	
4/25/2023		0.0182	0.0235			
5/2/2023	0.0178					
5/3/2023						0.0217
Mean	0.0141	0.01658	0.02438	0.0283	0.04163	0.03313
Std. Dev.	0.002068	0.001113	0.001682	0.002565	0.002966	0.009299
Upper Lim.	0.01629	0.01775	0.02616	0.03182	0.04571	0.04186
Lower Lim.	0.01191	0.0154	0.02259	0.02478	0.03756	-0.01907

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
8/29/2019		0.25
3/2/2020		0.165
10/15/2020	0.0274	
10/21/2020		0.166
4/27/2021	0.0184	
5/3/2021		0.248
9/1/2021	0.0172	
9/8/2021		0.236
3/8/2022	0.0169	
3/14/2022		0.267
9/20/2022		0.222
9/21/2022	0.0186	
4/25/2023		0.217
5/3/2023	0.0209	
Mean	0.0199	0.2214
Std. Dev.	0.003936	0.03796
Upper Lim.	0.02512	0.2616
Lower Lim.	0.01532	0.1811

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-13SR
10/20/2020	<0.001015
4/21/2021	<0.001015
9/7/2021	0.00166
3/9/2022	0.00171
9/19/2022	0.00241
4/18/2023	0.00244
Mean	0.001708
Std. Dev.	0.0006311
Upper Lim.	0.002578
Lower Lim.	0.001116

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-10	MR-AP-MW-12	MR-AP-MW-13SR	MR-AP-MW-4
8/27/2019				<0.000203
8/28/2019		<0.000203		
8/29/2019	<0.000203			
3/4/2020				<0.000203
3/9/2020	<0.000203			
3/10/2020		<0.000203		
10/14/2020				<0.000203
10/19/2020	<0.000203	<0.000203		
10/20/2020			<0.0002	
4/21/2021			<0.0002	
4/26/2021				7.3E-05 (J)
5/3/2021	<0.000203			
5/5/2021		9.27E-05 (J)		
9/1/2021				8E-05 (J)
9/7/2021		0.00012 (J)	<0.0002	
9/15/2021	<0.000203			
3/9/2022			0.0001 (J)	
3/15/2022				<0.000203
3/17/2022	9E-05 (J)	0.00016 (J)		
9/19/2022			0.000378	
9/26/2022	9.8E-05 (J)	<0.000203		<0.000203
4/18/2023			0.000563	
5/2/2023				<0.000203
5/3/2023	<0.000203	<0.000203		
Mean	0.0001758	0.0001735	0.0002735	0.0001714
Std. Dev.	5.05E-05	4.46E-05	0.000168	5.859E-05
Upper Lim.	0.000203	0.000203	0.0005102	0.000203
Lower Lim.	9E-05	9.27E-05	-1.377E-05	7.3E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
8/27/2019	0.00336 (J)					
8/28/2019			<0.001015	<0.001015		
8/29/2019		<0.001015				
3/3/2020			<0.001015			
3/9/2020	0.0105	<0.001015				
3/10/2020				<0.001015		
10/19/2020	0.00527 (J)	<0.001015		<0.001015		
10/20/2020			<0.001015		<0.00102	<0.001015
4/20/2021	0.00235					
4/21/2021			<0.001015		0.000207 (J)	0.000239 (J)
5/3/2021		<0.001015				
5/5/2021				<0.001015		
9/7/2021				0.00084 (J)	0.00031 (J)	0.00034 (J)
9/8/2021	0.00143					
9/14/2021			0.00037 (J)			
9/15/2021		0.00047 (J)				
3/9/2022					<0.00102	0.00068 (J)
3/15/2022	0.00199					
3/16/2022			0.00027 (J)			
3/17/2022		0.00139		0.00048 (J)		
9/19/2022	0.00148				0.000647 (J)	0.000275 (J)
9/20/2022			0.000272 (J)			
9/26/2022		0.000436 (J)		0.00215		
4/18/2023					0.000323 (J)	<0.001015
5/2/2023	0.0042					
5/3/2023		0.000411 (J)	<0.001015	0.00034 (J)		
Mean	0.003823	0.0008459	0.0007484	0.0009838	0.0005878	0.000594
Std. Dev.	0.003018	0.0003603	0.0003692	0.0005415	0.0003659	0.0003617
Upper Lim.	0.006625	0.00139	0.001015	0.001243	0.0005986	0.0006239
Lower Lim.	0.001254	0.000411	0.00027	0.0002815	0.0001449	0.0001431

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
8/27/2019				<0.001015	<0.001015	<0.01
8/28/2019		<0.001015	<0.001015			
3/3/2020			<0.001015	<0.001015	<0.001015	<0.01
3/4/2020		<0.001015				
10/13/2020		<0.001015	<0.001015		<0.001015	<0.01
10/20/2020	<0.001015					
10/21/2020				<0.001015		
4/21/2021	0.000239 (J)		<0.001015			
4/26/2021		<0.001015		0.00021 (J)		
5/5/2021					<0.001015	0.000646 (J)
9/1/2021		0.00033 (J)	0.00067 (J)			
9/7/2021					0.00027 (J)	0.00042 (J)
9/13/2021	0.00044 (J)					
9/14/2021				0.00051 (J)		
3/8/2022			<0.001015			
3/9/2022	<0.001015	0.00028 (J)				
3/16/2022				<0.001015	0.00033 (J)	0.00034 (J)
9/19/2022					0.000333 (J)	0.000343 (J)
9/20/2022		0.000243 (J)	<0.001015			
9/26/2022	0.000356 (J)			<0.001015		
4/19/2023		<0.001015	<0.001015			
5/2/2023	<0.001015			<0.001015	<0.001015	0.000885 (J)
Mean	0.00068	0.000741	0.0009719	0.0008513	0.000751	0.004079
Std. Dev.	0.0003725	0.0003789	0.000122	0.0003136	0.0003648	0.004906
Upper Lim.	0.001015	0.001015	0.001015	0.001015	0.001015	0.01
Lower Lim.	0.000239	0.000243	0.00067	0.00021	0.00027	0.00034

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
8/27/2019	<0.001015					
8/28/2019		<0.001015	<0.001015			
3/2/2020		<0.001015				
3/3/2020			<0.001015			
3/4/2020	<0.001015					
10/14/2020	<0.001015					
10/15/2020						<0.001015
10/20/2020			<0.001015	<0.001015	<0.001015	
10/21/2020		<0.001015				
4/26/2021	<0.001015					
4/27/2021				<0.001015	0.000219 (J)	0.000284 (J)
4/28/2021			<0.001015			
5/3/2021		<0.001015				
9/1/2021	0.00029 (J)		0.00025 (J)	0.0003 (J)	0.00025 (J)	0.0003 (J)
9/8/2021		0.00027 (J)				
3/8/2022				<0.001015	0.00023 (J)	0.00024 (J)
3/14/2022		<0.001015				
3/15/2022	<0.001015					
3/16/2022			0.00023 (J)			
9/20/2022		<0.001015		0.000282 (J)	<0.001015	
9/21/2022			0.000246 (J)			0.000301 (J)
9/26/2022	0.000278 (J)					
4/24/2023				<0.001015	<0.001015	
4/25/2023		<0.001015	<0.001015			
5/2/2023	<0.001015					
5/3/2023						<0.001015
Mean	0.0008323	0.0009219	0.0007251	0.0007737	0.000624	0.0005258
Std. Dev.	0.0003384	0.0002634	0.0004001	0.0003739	0.0004284	0.0003796
Upper Lim.	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.000278	0.00027	0.00023	0.000282	0.000219	0.00024

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
8/29/2019		<0.001015
3/2/2020		<0.001015
10/15/2020	<0.001015	
10/21/2020		<0.001015
4/27/2021	0.000204 (J)	
5/3/2021		<0.001015
9/1/2021	0.00031 (J)	
9/8/2021		0.00021 (J)
3/8/2022	0.0002 (J)	
3/14/2022		0.00024 (J)
9/20/2022		<0.001015
9/21/2022	<0.001015	
4/25/2023		<0.001015
5/3/2023	<0.001015	
Mean	0.0006265	0.0008175
Std. Dev.	0.0004274	0.0003658
Upper Lim.	0.001015	0.001015
Lower Lim.	0.0002	0.00021

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
8/27/2019	<0.005					
8/28/2019			<0.000203	<0.005		
8/29/2019		<0.005				
3/3/2020			<0.000203			
3/9/2020	<0.005	<0.005				
3/10/2020				<0.005		
10/19/2020	<0.005	<0.005		<0.005		
10/20/2020			<0.000203		<0.005	0.0112
4/20/2021	0.000113 (J)					
4/21/2021			<0.000203		0.00086	0.0523
5/3/2021		0.0003				
5/5/2021				0.00141		
9/7/2021				0.00165	0.00072	0.0816
9/8/2021	8E-05 (J)					
9/14/2021			<0.000203			
9/15/2021		0.0003				
3/9/2022					0.00066	0.0824
3/15/2022	0.00038					
3/16/2022			<0.000203			
3/17/2022		0.00091		0.00116		
9/19/2022	0.00108				0.00092	0.0931
9/20/2022			7.7E-05 (J)			
9/26/2022		0.00137		0.00142		
4/18/2023					0.000767	0.0819
5/2/2023	0.000545					
5/3/2023		0.00107	<0.000203	0.000717		
Mean	0.00215	0.002369	0.0001873	0.00267	0.001488	0.06708
Std. Dev.	0.00238	0.002208	4.455E-05	0.001948	0.001723	0.0306
Upper Lim.	0.0008122	0.001304	0.000203	0.005	0.005	0.09827
Lower Lim.	0.000103	0.0003286	7.7E-05	0.000717	0.00066	0.03008

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
8/27/2019				0.0498	0.00562	<0.0002
8/28/2019		0.0021 (J)	0.00216 (J)			
3/3/2020			<0.005	0.0471	0.00456 (J)	<0.0002
3/4/2020		<0.005				
10/13/2020		<0.005	0.00352 (J)		0.00555	<0.0002
10/20/2020	<0.000203					
10/21/2020				0.0368		
4/21/2021	6.88E-05 (J)		0.00213			
4/26/2021		0.000703		0.0358		
5/5/2021					0.00451	<0.0002
9/1/2021		0.00066	0.00646			
9/7/2021					0.00455	<0.0002
9/13/2021	<0.000203					
9/14/2021				0.0515		
3/8/2022			0.00413			
3/9/2022	<0.000203	0.00065				
3/16/2022				0.0444	0.00378	<0.0002
9/19/2022					0.00397	<0.0002
9/20/2022		0.0247	0.00579			
9/26/2022	<0.000203			0.0522		
4/19/2023		0.0118	0.0024			
5/2/2023	<0.000203			0.0538	0.00405	0.00012 (J)
Mean	0.0001806	0.006327	0.003949	0.04643	0.004574	0.00019
Std. Dev.	5.479E-05	0.008323	0.001687	0.006918	0.0006888	2.828E-05
Upper Lim.	0.000203	0.01115	0.005737	0.05376	0.005304	0.0002
Lower Lim.	6.88E-05	5.165E-05	0.002161	0.03909	0.003844	0.00012

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals
 Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-6	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR
8/27/2019	0.0157				
8/28/2019		0.0283			
3/3/2020		0.0186			
3/4/2020	0.0119				
10/14/2020	0.0117				
10/15/2020				<0.005	<0.005
10/20/2020		0.00675	<0.005		
4/26/2021	0.00667				
4/27/2021			0.000826	0.000206	0.000331
4/28/2021		0.00574			
9/1/2021	0.00719	0.00456	0.00078	0.00011 (J)	0.00016 (J)
3/8/2022			0.00067	0.00013 (J)	0.00022
3/15/2022	0.0039				
3/16/2022		0.00531			
9/20/2022			0.000748		
9/21/2022		0.00612		0.000147 (J)	0.000115 (J)
9/26/2022	0.00501				
4/24/2023			0.00152		
4/25/2023		0.00983			
5/2/2023	0.00283				
5/3/2023				0.000156 (J)	0.0004
Mean	0.008113	0.01065	0.001591	0.0009582	0.001038
Std. Dev.	0.00452	0.008459	0.001699	0.00198	0.001944
Upper Lim.	0.0129	0.01721	0.005	0.005	0.005
Lower Lim.	0.003322	0.004291	0.00067	0.00011	0.000115

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
8/27/2019	0.696					
8/28/2019			0.358 (U)	0.577 (U)		
8/29/2019		0.437 (U)				
3/3/2020			0.227 (U)			
3/9/2020	0.726	0.906				
3/10/2020				1.57		
10/19/2020	0.335 (U)	0.387 (U)		0.17 (U)		
10/20/2020			0.0474 (U)		0.357 (U)	0.479 (U)
4/20/2021	0.44 (U)					
4/21/2021			0.309 (U)		0.748 (U)	1.13
5/3/2021		0.821 (U)				
5/5/2021				0.446 (U)		
9/7/2021				0.521 (U)	0.822 (U)	1.24 (U)
9/8/2021	0.396 (U)					
9/14/2021			0.279 (U)			
9/15/2021		1.43 (U)				
3/9/2022					0.284 (U)	1.28
3/15/2022	0.754 (U)					
3/16/2022			0.579 (U)			
3/17/2022		0.232 (U)		0.656 (U)		
9/19/2022	0.933 (U)				0.762 (U)	1.11 (U)
9/20/2022			0.441 (U)			
9/26/2022		0.502 (U)		0.62 (U)		
4/18/2023					0.555 (U)	0.695 (U)
5/2/2023	1.38					
5/3/2023		0.952 (U)	0.618 (U)	0.659 (U)		
Mean	0.7075	0.7084	0.3573	0.6524	0.588	0.989
Std. Dev.	0.3408	0.3925	0.1873	0.4038	0.2269	0.3252
Upper Lim.	1.069	1.124	0.5558	1.049	0.8997	1.436
Lower Lim.	0.3463	0.2924	0.1588	0.2829	0.2763	0.5423

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
8/27/2019				0.615	0.491 (U)	1.17
8/28/2019		0.00424 (U)	0.372 (U)			
3/3/2020			-0.0538 (U)	0.361 (U)	0.258 (U)	0.821
3/4/2020		0.337 (U)				
10/13/2020		0.232 (U)	0.209 (U)		-0.209 (U)	-0.0678 (U)
10/20/2020	-0.128 (U)					
10/21/2020				0.448 (U)		
4/21/2021	0.164 (U)		0.319 (U)			
4/26/2021		0.643 (U)		0.378 (U)		
5/5/2021					1.06 (U)	0.195 (U)
9/1/2021		0.37 (U)	0.231 (U)			
9/7/2021					0.332 (U)	0.0456 (U)
9/13/2021	0.387 (U)					
9/14/2021				0.96 (U)		
3/8/2022			0.455 (U)			
3/9/2022	0.417 (U)	0.387 (U)				
3/16/2022				0.589 (U)	0.257 (U)	0.207 (U)
9/19/2022					0.804 (U)	0.714 (U)
9/20/2022		0.359 (U)	0.392 (U)			
9/26/2022	1 (U)			0.479 (U)		
4/19/2023		1.05 (U)	0.679 (U)			
5/2/2023	0.502 (U)			0.831 (U)	0.857 (U)	1.05 (U)
Mean	0.3903	0.4228	0.3254	0.5826	0.4813	0.5169
Std. Dev.	0.3754	0.3091	0.212	0.2155	0.4104	0.4789
Upper Lim.	0.9061	0.7504	0.5502	0.811	0.9163	1.025
Lower Lim.	-0.1254	0.09511	0.1006	0.3542	0.0462	0.009198

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
8/27/2019	0.533					
8/28/2019		0.81	0.268 (U)			
3/2/2020		0.407 (U)				
3/3/2020			0.177 (U)			
3/4/2020	0.31 (U)					
10/14/2020	0.434 (U)					
10/15/2020						0.897
10/20/2020			0.321 (U)	0.197 (U)	0.398 (U)	
10/21/2020		-0.12 (U)				
4/26/2021	0.394 (U)					
4/27/2021				0.334 (U)	0.846 (U)	0.699 (U)
4/28/2021			0.156 (U)			
5/3/2021		0.646 (U)				
9/1/2021	0.238 (U)		0.132 (U)	1.4	0.627 (U)	0.667 (U)
9/8/2021		0.745 (U)				
3/8/2022				0.263 (U)	0.649 (U)	0.145 (U)
3/14/2022		0.571 (U)				
3/15/2022	0.285 (U)					
3/16/2022			0.199 (U)			
9/20/2022		0.714 (U)		0.872 (U)	0.445 (U)	
9/21/2022			0.398 (U)			1.24
9/26/2022	0.525 (U)					
4/24/2023				0.863 (U)	0.804 (U)	
4/25/2023		1.49	0.257 (U)			
5/2/2023	0.203 (U)					
5/3/2023						0.453 (U)
Mean	0.3653	0.6579	0.2385	0.6548	0.6282	0.6835
Std. Dev.	0.1261	0.4475	0.0902	0.4716	0.1818	0.3739
Upper Lim.	0.4989	1.132	0.3341	1.303	0.878	1.197
Lower Lim.	0.2316	0.1835	0.1429	0.007039	0.3784	0.1699

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
8/29/2019		0.355 (U)
3/2/2020		0.213 (U)
10/15/2020	0.222 (U)	
10/21/2020		0.0492 (U)
4/27/2021	0.157 (U)	
5/3/2021		0.328 (U)
9/1/2021	0.272 (U)	
9/8/2021		1.16 (U)
3/8/2022	0.447 (U)	
3/14/2022		0.253 (U)
9/20/2022		0.47 (U)
9/21/2022	0.391 (U)	
4/25/2023		0.537 (U)
5/3/2023	0.709 (U)	
Mean	0.3663	0.4207
Std. Dev.	0.199	0.3348
Upper Lim.	0.6398	0.7523
Lower Lim.	0.09291	0.1192

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
8/27/2019	0.159					
8/28/2019			0.13	0.916		
8/29/2019		0.445				
3/3/2020			0.134			
3/9/2020	0.179	0.517				
3/10/2020				0.929		
10/19/2020	0.16	0.608		0.978		
10/20/2020			0.126		0.146	0.434
4/20/2021	0.165					
4/21/2021			0.111		0.134	0.402
5/3/2021		0.599				
5/5/2021				0.958		
9/7/2021				0.843	0.183	0.532
9/8/2021	0.188					
9/14/2021			0.136			
9/15/2021		0.727				
3/9/2022					0.179	0.573
3/15/2022	0.142					
3/16/2022			0.107 (J)			
3/17/2022		1.86		1.21		
9/19/2022	0.164				0.156	0.407
9/20/2022			0.0923 (J)			
9/26/2022		1.12		0.989		
4/18/2023					0.264	0.124 (J)
5/2/2023	0.181					
5/3/2023		0.902	0.172	1.18		
Mean	0.1673	0.8473	0.126	1	0.177	0.412
Std. Dev.	0.01479	0.464	0.02396	0.1285	0.0466	0.1574
Upper Lim.	0.1829	1.292	0.1514	1.137	0.241	0.6282
Lower Lim.	0.1516	0.4283	0.1006	0.8642	0.113	0.1958

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
8/27/2019				0.19	0.361	0.294
8/28/2019		0.0974 (J)	0.29			
3/3/2020			0.179	0.262	0.397	0.286
3/4/2020		0.111				
10/13/2020		0.125	0.145		0.362	0.311
10/20/2020	0.177					
10/21/2020				0.236		
4/21/2021	0.166		0.173			
4/26/2021		0.117		0.406		
5/5/2021					0.351	0.291
9/1/2021		0.118	0.14			
9/7/2021					0.433	0.361
9/13/2021	0.171					
9/14/2021				0.24		
3/8/2022			0.155			
3/9/2022	0.188	0.103 (J)				
3/16/2022				0.268	0.388	0.309
9/19/2022					0.341	0.304
9/20/2022		<0.125	0.145			
9/26/2022	0.215			0.211		
4/19/2023		0.119 (J)	0.16			
5/2/2023	0.167			0.321	0.348	0.311
Mean	0.1807	0.1066	0.1734	0.2668	0.3726	0.3084
Std. Dev.	0.01866	0.01997	0.0491	0.06868	0.03116	0.02334
Upper Lim.	0.2063	0.1252	0.29	0.3395	0.4057	0.361
Lower Lim.	0.155	0.08808	0.14	0.194	0.3396	0.286

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
8/27/2019	0.237					
8/28/2019		0.385	0.105			
3/2/2020		0.382				
3/3/2020			0.121			
3/4/2020	0.221					
10/14/2020	0.251					
10/15/2020						0.129
10/20/2020			0.109	0.122	0.222	
10/21/2020		0.427				
4/26/2021	0.204					
4/27/2021				0.126	0.242	0.149
4/28/2021			0.183			
5/3/2021		0.388				
9/1/2021	0.281		0.118	0.16	0.245	0.197
9/8/2021		0.433				
3/8/2022				<0.125	0.223	0.11 (J)
3/14/2022		0.405				
3/15/2022	0.154					
3/16/2022			0.155			
9/20/2022		0.384		<0.125	0.177	
9/21/2022			<0.125			0.178
9/26/2022	0.22					
4/24/2023				0.115 (J)	0.195	
4/25/2023		0.424	0.0863 (J)			
5/2/2023	0.17					
5/3/2023						0.281
Mean	0.2173	0.4035	0.1175	0.1288	0.2173	0.174
Std. Dev.	0.04144	0.02161	0.03768	0.01579	0.02666	0.06122
Upper Lim.	0.2612	0.433	0.1574	0.16	0.254	0.2581
Lower Lim.	0.1733	0.382	0.07754	0.115	0.1807	0.0899

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
8/29/2019		2.07
3/2/2020		1.9
10/15/2020	0.114	
10/21/2020		1.89
4/27/2021	0.125	
5/3/2021		2.38
9/1/2021	0.162	
9/8/2021		2.27
3/8/2022	0.125	
3/14/2022		2.28
9/20/2022		2.39
9/21/2022	0.0775 (J)	
4/25/2023		2.23
5/3/2023	0.138	
Mean	0.1236	2.176
Std. Dev.	0.02794	0.1997
Upper Lim.	0.162	2.388
Lower Lim.	0.0852	1.965

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-3D
8/27/2019			<0.000203
3/3/2020			<0.000203
10/13/2020			<0.000203
10/20/2020	<0.000203	<0.0002	
4/21/2021	0.000121 (J)	<0.0002	
5/5/2021			8.4E-05 (J)
9/7/2021	<0.000203	<0.0002	<0.000203
3/9/2022	<0.000203	0.00011 (J)	
3/16/2022			<0.000203
9/19/2022	<0.000203	0.0004	<0.000203
4/18/2023	<0.000203	0.00101	
5/2/2023			<0.000203
Mean	0.0001893	0.0003533	0.0001881
Std. Dev.	3.348E-05	0.0003356	4.207E-05
Upper Lim.	0.000203	0.0007862	0.000203
Lower Lim.	0.000121	4.217E-05	8.4E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
8/27/2019	0.264					
8/28/2019			0.318	0.158		
8/29/2019		0.197				
3/3/2020			0.255			
3/9/2020	0.123	0.225				
3/10/2020				0.146		
10/19/2020	0.09	0.166		0.12		
10/20/2020			0.297		0.0343	0.0475
4/20/2021	0.154					
4/21/2021			0.421		0.0356	0.0237
5/3/2021		0.19				
5/5/2021				0.124 (R)		
9/7/2021				0.176	0.0357	0.0258
9/8/2021	0.179					
9/14/2021			0.374			
9/15/2021		0.187				
3/9/2022					0.031	0.0215
3/15/2022	0.156					
3/16/2022			0.172			
3/17/2022		0.174		0.104		
9/19/2022	0.204				0.037	0.028
9/20/2022			0.173			
9/26/2022		0.267		0.233		
4/18/2023					0.0382	0.0199 (J)
5/2/2023	0.206					
5/3/2023		0.354	0.144	0.077		
Mean	0.172	0.22	0.2693	0.1423	0.0353	0.02773
Std. Dev.	0.05398	0.06295	0.1012	0.04809	0.002492	0.01011
Upper Lim.	0.2292	0.2817	0.3766	0.1932	0.03872	0.04064
Lower Lim.	0.1148	0.1605	0.1619	0.09128	0.03188	0.01731

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
8/27/2019				0.257	0.115	0.246
8/28/2019		0.0199 (J)	0.0555			
3/3/2020			0.0278	0.269	0.11	0.294
3/4/2020		0.0195 (J)				
10/13/2020		0.0195 (J)	0.132		0.121	0.347
10/20/2020	0.0207					
10/21/2020				0.217		
4/21/2021	0.0211		0.128			
4/26/2021		0.0194 (J)		0.268		
5/5/2021					0.116	0.358
9/1/2021		0.0196 (J)	0.104			
9/7/2021					0.12	0.347
9/13/2021	0.0212					
9/14/2021				0.27		
3/8/2022			0.0901			
3/9/2022	0.0196 (J)	0.0177 (J)				
3/16/2022				0.211	0.0914	0.271
9/19/2022					0.101	0.261
9/20/2022		0.023	0.177			
9/26/2022	0.0204			0.221		
4/19/2023		0.0226	0.0713			
5/2/2023	0.0206			0.273	0.104	0.274
Mean	0.0206	0.02015	0.09821	0.2483	0.1098	0.2998
Std. Dev.	0.0005762	0.001769	0.04757	0.02696	0.01031	0.04435
Upper Lim.	0.02139	0.02201	0.1486	0.273	0.1207	0.3468
Lower Lim.	0.01981	0.01831	0.04779	0.211	0.09887	0.2527

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
8/27/2019	0.0741					
8/28/2019		0.237	0.0853			
3/2/2020		0.237				
3/3/2020			0.0877			
3/4/2020	0.0851					
10/14/2020	0.0651					
10/15/2020						0.0815
10/20/2020			0.0785	0.12	0.143	
10/21/2020		0.193				
4/26/2021	0.0758					
4/27/2021				0.13	0.156	0.0818
4/28/2021			0.0865			
5/3/2021		0.228				
9/1/2021	0.0716		0.0856	0.13	0.16	0.0827
9/8/2021		0.229				
3/8/2022				0.105	0.139	0.0682
3/14/2022		0.189				
3/15/2022	0.0575					
3/16/2022			0.0731			
9/20/2022		0.195		0.108	0.155	
9/21/2022			0.0774			0.0642
9/26/2022	0.0674					
4/24/2023				0.124	0.173	
4/25/2023		0.243	0.0898			
5/2/2023	0.064					
5/3/2023						0.071
Mean	0.07008	0.2189	0.08299	0.1195	0.1543	0.0749
Std. Dev.	0.008485	0.02254	0.005883	0.0108	0.01223	0.008082
Upper Lim.	0.07907	0.2404	0.08922	0.1343	0.1711	0.086
Lower Lim.	0.06108	0.1957	0.07675	0.1047	0.1375	0.0638

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
8/29/2019		0.164
3/2/2020		0.147
10/15/2020	0.0413	
10/21/2020		0.127
4/27/2021	0.045	
5/3/2021		0.177
9/1/2021	0.0464	
9/8/2021		0.17
3/8/2022	0.04	
3/14/2022		0.143
9/20/2022		0.138
9/21/2022	0.0421	
4/25/2023		0.158
5/3/2023	0.0464	
Mean	0.04353	0.153
Std. Dev.	0.002761	0.0171
Upper Lim.	0.04733	0.1711
Lower Lim.	0.03974	0.1349

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
8/27/2019	0.00563 (J)					
8/28/2019			<0.01015	0.646		
8/29/2019		0.158				
3/3/2020			<0.01015			
3/9/2020	0.0142	0.223				
3/10/2020				0.49		
10/19/2020	0.0116	0.305		0.858		
10/20/2020			<0.01015		0.00206 (J)	0.00311 (J)
4/20/2021	0.0072					
4/21/2021			0.000741		0.00592	0.00029
5/3/2021		0.296				
5/5/2021				0.662		
9/7/2021				0.821	0.00355	0.00017 (J)
9/8/2021	0.00649					
9/14/2021			0.00075			
9/15/2021		0.352				
3/9/2022					0.00325	0.00014 (J)
3/15/2022	0.00568					
3/16/2022			0.00039			
3/17/2022		0.751		1.17		
9/19/2022	0.00547				0.0034	0.00011 (J)
9/20/2022			0.00148			
9/26/2022		0.74		0.555		
4/18/2023					<0.01015	<0.01015
5/2/2023	<0.01015					
5/3/2023		0.665	<0.01015	0.383		
Mean	0.007668	0.4363	0.005495	0.6981	0.004722	0.002328
Std. Dev.	0.003368	0.2422	0.004985	0.248	0.002942	0.004008
Upper Lim.	0.0142	0.6932	0.01015	0.961	0.005378	0.01015
Lower Lim.	0.005075	0.1961	0.00039	0.4353	0.002076	0.00011

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
8/27/2019				<0.01015	0.026	0.0557
8/28/2019		<0.01015	0.107			
3/3/2020			0.025	<0.01015	0.024	0.0648
3/4/2020		<0.01015				
10/13/2020		<0.01015	0.0494		0.0265	0.0517
10/20/2020	<0.01015					
10/21/2020				0.00458 (J)		
4/21/2021	0.000157 (J)		0.0515			
4/26/2021		<0.01015		0.0018		
5/5/2021					0.0243	0.0449
9/1/2021		8E-05 (J)	0.0336			
9/7/2021					0.0254	0.0511
9/13/2021	9E-05 (J)					
9/14/2021				0.0021		
3/8/2022			0.0418			
3/9/2022	0.00012 (J)	0.00011 (J)				
3/16/2022				0.00207	0.0266	0.0488
9/19/2022					0.0264	0.0506
9/20/2022		0.000518	0.0863			
9/26/2022	<0.01015			0.00166		
4/19/2023		<0.01015	0.0499			
5/2/2023	<0.01015			<0.01015	0.0293	0.0661
Mean	0.005136	0.006432	0.05556	0.005333	0.02606	0.05421
Std. Dev.	0.005492	0.005133	0.02747	0.004093	0.001642	0.007566
Upper Lim.	0.01015	0.01015	0.08468	0.01015	0.0278	0.06223
Lower Lim.	9E-05	8E-05	0.02644	0.00166	0.02432	0.04619

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
8/27/2019	<0.01015					
8/28/2019		0.0709	0.00285 (J)			
3/2/2020		0.0725				
3/3/2020			0.00282 (J)			
3/4/2020	<0.01015					
10/14/2020	<0.01015					
10/15/2020						<0.01015
10/20/2020			<0.01015	0.00424 (J)	0.0356	
10/21/2020		0.0877				
4/26/2021	8.18E-05 (J)					
4/27/2021				0.00393	0.0324	0.00031
4/28/2021			0.00135			
5/3/2021		0.0726				
9/1/2021	7E-05 (J)		0.00174	0.00458	0.0351	0.00035
9/8/2021		0.0733				
3/8/2022				0.00515	0.0333	0.00121
3/14/2022		0.0753				
3/15/2022	0.00011 (J)					
3/16/2022			0.00145			
9/20/2022		0.0901		0.00717	0.0328	
9/21/2022			0.00202			0.000304
9/26/2022	0.000153 (J)					
4/24/2023				<0.01015	0.0282	
4/25/2023		0.0934	<0.01015			
5/2/2023	<0.01015					
5/3/2023						<0.01015
Mean	0.005127	0.07948	0.004066	0.00587	0.0329	0.003746
Std. Dev.	0.00537	0.009254	0.003796	0.002392	0.002632	0.004973
Upper Lim.	0.01015	0.0934	0.01015	0.006596	0.03652	0.01015
Lower Lim.	7E-05	0.0709	0.00135	0.003432	0.02928	0.000304

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
8/29/2019		<0.01015
3/2/2020		<0.01015
10/15/2020	0.00213 (J)	
10/21/2020		<0.01015
4/27/2021	0.0015	
5/3/2021		0.000438
9/1/2021	0.00047	
9/8/2021		0.00029
3/8/2022	0.00027	
3/14/2022		0.00033
9/20/2022		0.000184 (J)
9/21/2022	0.000302	
4/25/2023		<0.01015
5/3/2023	<0.01015	
Mean	0.00247	0.00523
Std. Dev.	0.003836	0.00526
Upper Lim.	0.00202	0.01015
Lower Lim.	0.0001632	0.000184

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-13SR	MR-AP-MW-16	MR-AP-MW-4
8/27/2019			<0.00102
8/28/2019		<0.00102	
3/3/2020		0.00271 (J)	
3/4/2020			<0.00102
10/13/2020		0.00351 (J)	
10/14/2020			<0.00102
10/20/2020	<0.001015		
4/21/2021	<0.001015	0.000975 (J)	
4/26/2021			0.00112
9/1/2021		0.00629	0.00077 (J)
9/7/2021	<0.001015		
3/8/2022		0.00171	
3/9/2022	<0.001015		
3/15/2022			<0.00102
9/19/2022	0.000598 (J)		
9/20/2022		<0.00102	
9/26/2022			<0.00102
4/18/2023	<0.001015		
4/19/2023		0.00616	
5/2/2023			0.000539 (J)
Mean	0.0009455	0.002924	0.0009411
Std. Dev.	0.0001702	0.002227	0.0001905
Upper Lim.	0.001015	0.005353	0.00112
Lower Lim.	0.000598	0.001114	0.000539

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 6/30/2023 11:30 AM View: Appendix IV - Confidence Intervals

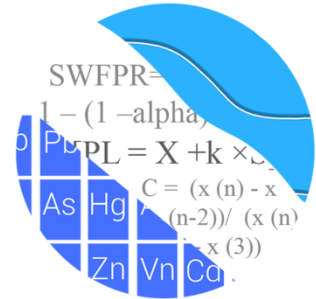
Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-13SR	MR-AP-MW-16	MR-AP-MW-4
8/27/2019			<0.0002
8/28/2019		<0.0002	
3/3/2020		<0.0002	
3/4/2020			<0.0002
10/13/2020		<0.0002	
10/14/2020			<0.0002
10/20/2020	<0.001		
4/21/2021	7.01E-05 (J)	7.18E-05 (J)	
4/26/2021			<0.0002
9/1/2021		<0.0002	<0.0002
9/7/2021	8E-05 (J)		
3/8/2022		7E-05 (J)	
3/9/2022	0.00013 (J)		
3/15/2022			7E-05 (J)
9/19/2022	0.000159 (J)		
9/20/2022		<0.0002	
9/26/2022			<0.0002
4/18/2023	0.000165 (J)		
4/19/2023		<0.0002	
5/2/2023			<0.0002
Mean	0.0002674	0.0001677	0.0001837
Std. Dev.	0.0003611	5.976E-05	4.596E-05
Upper Lim.	0.001	0.0002	0.0002
Lower Lim.	7.01E-05	7E-05	7E-05

GROUNDWATER STATS CONSULTING

December 22, 2023

Southern Company Services
Attn: Mr. Greg Budd
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Miller Ash Pond
2nd Semi-Annual Background Update and Analysis – September/October 2023

Dear Mr. Budd,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the background update and statistical analysis of groundwater data for the 2nd Semi-Annual September/October 2023 sample event for Alabama Power Company's Plant Miller Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GS-AP-MW-8, GS-AP-MW-13, GS-AP-MW-17V, MR-AP-MW-21, MR-AP-MW-22D, MR-AP-MW-22I, MR-AP-MW-22S, MR-AP-MW-23, and MR-AP-MW-23A
- **Downgradient wells:** MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13DR, MR-AP-MW-13SR, MR-AP-MW-14R, MR-AP-MW-15, and MR-AP-MW-16
- **Delineation wells:** MR-AP-MW-4V, MR-AP-MW-6V, MR-AP-MW-17H, MR-AP-MW-18H, MR-AP-MW-19HA, MR-AP-MW-20H, MR-AP-MW-20HS, MR-AP-MW-27HR, MR-AP-MW-28H, MR-AP-MW-30H, MR-AP-MW-31H, MR-AP-MW-32H, MR-AP-MW-33H, MR-AP-MW-34H, MR-AP-MW-35H, MR-AP-MW-36HR, and MR-AP-MW-37H

- **Piezometers:** MR-AP-MW-2V, MR-AP-MW-3V, and MR-AP-MW-19H

Data from delineation wells are plotted on the time series graphs and box plots, but do not require formal statistics. Piezometers only monitor water levels; therefore, they are not included in this analysis.

Original downgradient wells MR-AP-MW-7D, MR-AP-MW-7S, MR-AP-MW-8D, MR-AP-MW-8S, MR-AP-MW-9D, MR-AP-MW-9S, MR-AP-MW-13D, MR-AP-MW-13S, and MR-AP-MW-14 were abandoned in 2020 and are no longer included in the analysis. Data from replacement wells MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-MW-13DR, MR-AP-MW-13SR, and MR-AP-MW-14R are plotted on the time series graphs and box plots, and Appendix IV constituents are evaluated using confidence intervals, which require a minimum of 4 samples. Intrawell prediction limits require a minimum of 8 background samples. Therefore, when the 9th sample is available for comparison, data from these wells will be evaluated for Appendix III constituents that use intrawell prediction limits (pH).

Upgradient wells MR-AP-MW-17V and MR-AP-MW-21 have been sampled at least 8 times and intrawell prediction limits were constructed for these wells during this background update. New upgradient wells MR-AP-MW-22D, MR-AP-MW-22I, MR-AP-MW-22S, MR-AP-MW-23, and MR-AP-MW-23A currently have sufficient samples to be incorporated into statistical calculations for interwell prediction limits and tolerance limits. However, due to elevated concentrations compared to neighboring upgradient wells for Appendix III constituents, data from these wells were not included in construction of interwell prediction limits. This step serves to provide statistical limits that are conservative (i.e., lower) from a regulatory perspective. While upgradient well GS-AP-MW-13 was abandoned in July 2019, historical data from this well are included in the construction interwell limits to represent background groundwater quality.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The CCR program consists of the following constituents:

Appendix III (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Appendix IV (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In the April 2020 background screening, Appendix III data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. A summary of the background screening is presented in a later section of this letter. Power curves are provided in this report to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods, site/data characteristics, and current number of compliance wells:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples (Intrawell): 20 (downgradient wells)
- # Background Samples (Interwell): 53 (upgradient wells)
- # Constituents: 7
- # Downgradient wells: 13

Summary of Statistical Methods – Appendix III Parameters

Based on the April 2020 background screening described below, the following statistical methods were recommended for Appendix III parameters:

- Intrawell prediction limits, combined with a 1-of-2 resample plan for pH
- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% (5% for each semi-annual sample event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification 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 for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater

quality. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Update Summaries – Conducted in Fall 2023

Intrawell prediction limits, which compare the most recent compliance sample from a given well to historical data from the same well, are updated by testing for the appropriateness of consolidating new sampling observations with the screened background data. As discussed in the Statistical Analysis Plan (August 2020), intrawell prediction limits are used to evaluate pH at all wells due to spatial variation for this parameter. Interwell prediction limits are used to compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data for boron, calcium, chloride, fluoride, sulfate, and TDS.

Outlier Analysis

Prior to constructing prediction limits, proposed background data through May 2023 were reviewed to identify any newly suspected outliers at all wells for pH and through October 2023 at upgradient wells for boron, calcium, chloride, fluoride, sulfate, and TDS.

Tukey's outlier tests identified outliers for boron, chloride, sulfate, and pH. Previously flagged values were confirmed by visual screening and Tukey's outlier tests. The highest values identified by Tukey's for pH at downgradient well MR-AP-MW-1 were flagged as outliers to construct statistical limits that are conservative from a regulatory perspective. No additional measurements for Appendix III parameters were flagged as concentrations identified by Tukey's test appeared to be representative of spatial variation or were recent measurements that could be indicative of future trends.

Outliers are flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative (i.e., lower) from a regulatory perspective. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary Tukey's test results along with a list of flagged outliers follows this report (Figure C).

Intrawell - Mann-Whitney Test of Medians

For pH, which is tested using intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through May 2021 to compliance data through May 2023 (Figure D). When no statistically significant difference in medians between the two groups is found at a 99% confidence level, background data may be updated with newer compliance data. Statistically significant differences (either an increase or decrease in median concentrations) were found between the two groups for the following well/constituent pairs:

Increase

- pH: MR-AP-MW-10

Decrease

- pH: MR-AP-MW-15

Typically, when the test concludes that the medians of the two groups are statistically significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data unless it can be reasonably justified that the change in concentrations reflects a shift unrelated to practices at the site. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

While the Mann Whitney test identified differences in the medians for the well/constituent pairs listed above, in these cases, the group of new measurements were similar to those observed in the historical record and the increases in medians were marginal. Therefore, these records were updated to include data through May 2023.

Previously, the record for pH at well MR-AP-MW-1 was not updated because the majority of the most recent measurements were higher than those reported historically; however, with elevated concentrations deselected, this record was able to be updated through May 2023. As more data are collected, this record will be re-evaluated for updating. All well/constituent pairs utilize historical data through May 2023 for the intrawell prediction limits.

Interwell – Upgradient Wells Trend Tests

The Sen's Slope/Mann Kendall trend test was used to evaluate all data through October 2023 at upgradient wells with sufficient samples for trend testing (i.e., a minimum of 6 samples) for parameters utilizing interwell prediction limits (boron, calcium, chloride,

fluoride, sulfate, and TDS) (Figure E). When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data may require deselection prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative (i.e., lower) from a regulatory perspective. The following statistically significant trends were noted for the following upgradient well/constituent pairs:

Increasing

- Boron: GS-AP-MW-8
- Calcium: MR-AP-MW-22S
- Chloride: GS-AP-MW-8
- Fluoride: GS-AP-MW-13
- Sulfate: MR-AP-MW-22D and MR-AP-MW-23A

Decreasing

- Boron: MR-AP-MW-22I and MR-AP-MW-23A

These trends required no adjustments because the period of record is short and the magnitudes of the trends are low relative to the average concentrations in background.

Evaluation of Appendix III Parameters – September/October 2023

Prediction Limits

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed for pH using screened background data through May 2023 at each well as discussed above (Figure F). Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. This statistical method removes the element of variation across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility. The September/October 2023 observation is compared to its respective background from the same well to determine whether initial exceedances are present.

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, sulfate, and TDS (Figure G). Interwell prediction limits pool upgradient well data through October 2023 to establish a background limit for an individual constituent. The September/October 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are

present. As discussed previously, due to higher concentrations among newer upgradient wells MR-AP-MW-22D, MR-AP-MW-22I, MR-AP-MW-22S, MR-AP-MW-23, and MR-AP-MW-23A, data from these wells were not included in construction of the interwell prediction limits as the resulting limits would not be conservative (i.e., lower) from a regulatory perspective.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research is required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. Both summary tables and complete graphical results for intrawell and interwell prediction limits may be found following this letter. Exceedances for both intrawell and interwell prediction limits were identified for the following well/constituent pairs:

Intrawell:

- pH: MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-6, MR-AP-MW-15, and MR-AP-MW-16

Interwell:

- Boron: MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-12, MR-AP-MW-15, and MR-AP-MW-16
- Calcium: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-15, and MR-AP-MW-16
- Chloride: MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, and MR-AP-MW-6
- Fluoride: MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-10, and MR-AP-MW-12
- Sulfate: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-15, and MR-AP-MW-16
- TDS: MR-AP-MW-2, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-10, MR-AP-MW-11, and MR-AP-MW-15

Trend Test Evaluation

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to

determine whether concentrations are statistically increasing, decreasing, or stable (Figure H). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. When trends are identified in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. New upgradient wells MR-AP-MW-22D, MR-AP-MW-22I, MR-AP-MW-22S, MR-AP-MW-23, and MR-AP-MW-23A were included due to sufficient sample size for trend testing (i.e., a minimum of 6 samples). A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Boron: MR-AP-MW-2, MR-AP-MW-3S, GS-AP-MW-8, MR-AP-MW-10, MR-AP-MW-12, and MR-AP-MW-15
- Calcium: MR-AP-MW-6, MR-AP-MW-15, and MR-AP-MW-22S (upgradient)
- Chloride: MR-AP-MW-3D, MR-AP-MW-6, and GS-AP-MW-8
- Fluoride: MR-AP-PZ-5, MR-AP-MW-5, MR-AP-MW-10, MR-AP-MW-12, and GS-AP-MW-13
- pH: MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-6, and MR-AP-MW-16D
- Sulfate: MR-AP-MW-10, MR-AP-MW-15, MR-AP-MW-22D (upgradient), and MR-AP-MW-23A (upgradient)
- TDS: MR-AP-MW-10 and MR-AP-MW-15

Decreasing

- Boron: MR-AP-MW-3D, MR-AP-MW-4, MR-AP-PZ-5, MR-AP-MW-22I (upgradient), and MR-AP-MW-23A (upgradient)
- Calcium: MR-AP-MW-3D, MR-AP-MW-4, and MR-AP-MW-6
- Chloride: MR-AP-MW-4 and MR-AP-MW-5
- pH: MR-AP-MW-15
- Sulfate: MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, and MR-AP-MW-16
- TDS: MR-AP-MW-3D, MR-AP-MW-4, MR-AP-MW-5, and MR-AP-MW-16

Evaluation of Appendix IV Parameters – September/October 2023

Prior to evaluating Appendix IV parameters, upgradient well data were screened through visual screening and Tukey's outlier test for potential outliers and extreme trending patterns that would lead to artificially elevated statistical limits. A discussion of those findings is provided below.

Tukey's outlier test on pooled upgradient well data for Appendix IV parameters through October 2023 identified values for barium, chromium, combined radium 226 + 228, and lithium (Figure C). However, no measurements were flagged as outliers for these constituents as all measurements appeared to be representative of spatial variation or were similar to remaining concentrations among upgradient well data.

Additionally, downgradient well data through October 2023 were screened through visual screening using time series graphs. Since the downgradient well data are used to construct confidence intervals, a regulatory conservative approach is taken in that values that are marginally high relative to the rest of the data are retained unless there is particular justification for excluding them. No outliers were flagged among downgradient wells for Appendix IV parameters.

Interwell Upper Tolerance Limits

Background limits were determined using tolerance limits constructed from pooled upgradient well data through October 2023 (Figure I). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in screened background as the statistical limit, were constructed. A summary of the tolerance limits follows this report.

Groundwater Protection Standards

These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two was used as the GWPS (Figure J) in the confidence interval comparisons described below. Exceptions are noted in Figure J for barium, combined radium 226 + 228, and lithium. For these parameters, the respective MCLs or Federally Derived limits were used as the GWPS rather than the higher background UTLs to maintain the more conservative standard.

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) were updated during this 2023 2nd semi-annual statistical analysis. The GWPS will be updated again during the 2025 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through August 2023 for each of the Appendix IV parameters (Figure K). These intervals were either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values as interval limits when n=8, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

As mentioned above, well/constituent pairs containing 100% non-detects for the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter. Exceedances were identified for the following well/constituent pairs:

- Arsenic: MR-AP-MW-3D
- Cobalt: MR-AP-MW-2 and MR-AP-MW-13SR
- Lithium: MR-AP-MW-1, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, and MR-AP-MW-16
- Molybdenum: MR-AP-MW-10 and MR-AP-MW-12

Trend Test Evaluation – Appendix IV

When confidence interval exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 95% confidence level (Figure L). Utilizing the 95% confidence level for trend tests readily identifies significant trends and is more sensitive than the 99% confidence level without drastically

increasing the false negative rate. Upgradient wells are included in the trend analyses for all parameters found to exceed their confidence interval in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of variability in groundwater which may be unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Arsenic: MR-AP-MW-23A (upgradient)
- Lithium: MR-AP-MW-10, MR-AP-MW-11, and MR-AP-MW-3S
- Molybdenum: GS-AP-MW-8, MR-AP-MW-22D (both upgradient), MR-AP-MW-10, and MR-AP-MW-12

Decreasing:

- Arsenic: MR-AP-MW-22I and MR-AP-MW-22S (both upgradient)
- Cobalt: MR-AP-MW-21 (upgradient) and MR-AP-MW-2
- Lithium: GS-AP-MW-17V, MR-AP-MW-8 (both upgradient), MR-AP-MW-12, MR-AP-MW-3D, MR-AP-MW-4, and MR-AP-PZ-5

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Miller Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst

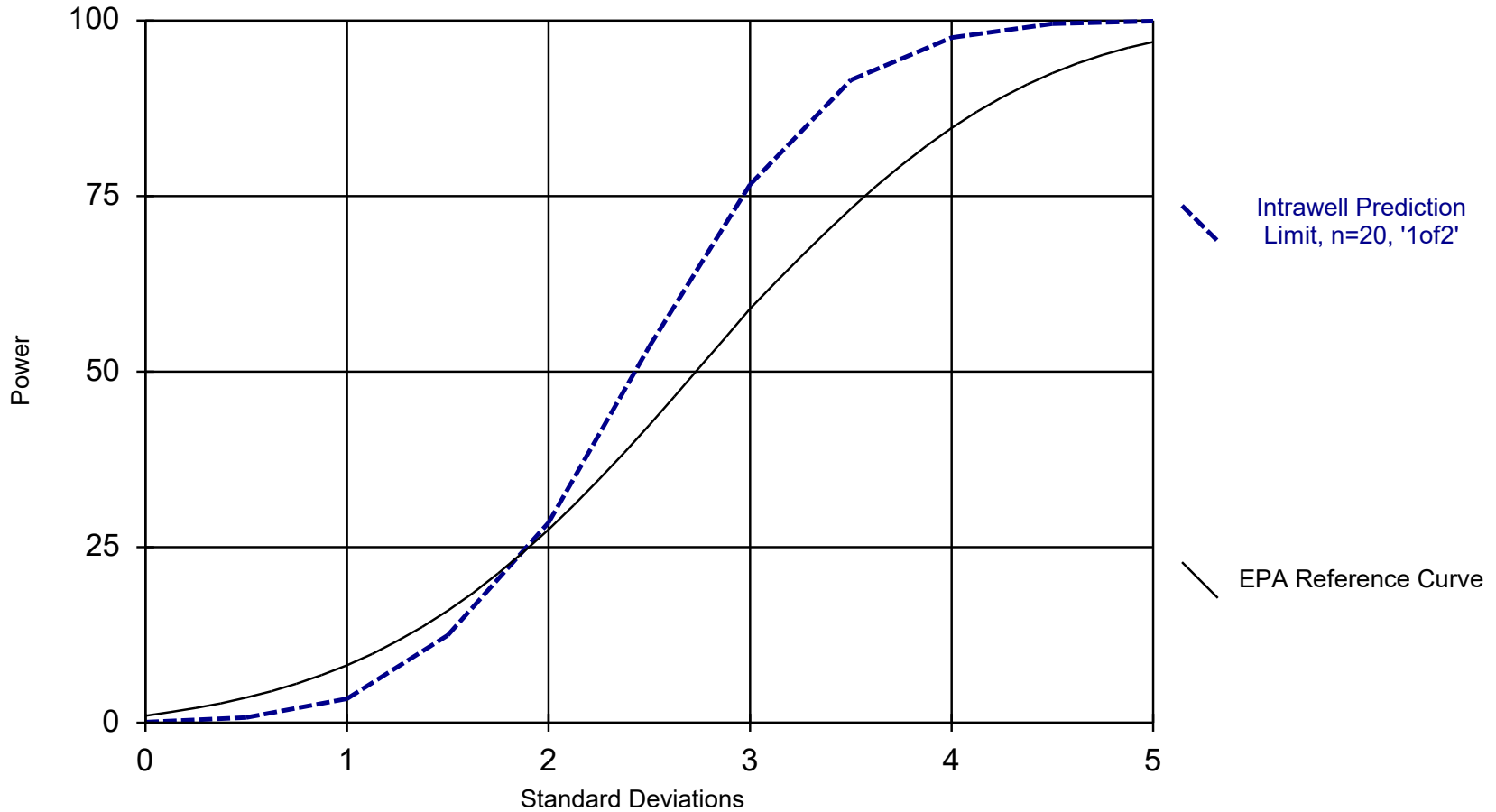


Andrew T. Collins
Project Manager

Table of Contents

Figure A. Time Series	36
Figure B. Box Plots	269
Figure C. Outlier Summary & Tukey's Outlier Tests	312
Figure D. Mann-Whitney	331
Figure E. Upgradient Wells Trend Tests	352
Figure F. Appendix III Intrawell Prediction Limits	369
Figure G. Appendix III Interwell Prediction Limits	394
Figure H. Appendix III Trend Tests	436
Figure I. Upper Tolerance Limits	471
Figure J. Groundwater Protection Standards	477
Figure K. Confidence Intervals	479
Figure L. Appendix IV Trend Tests	532

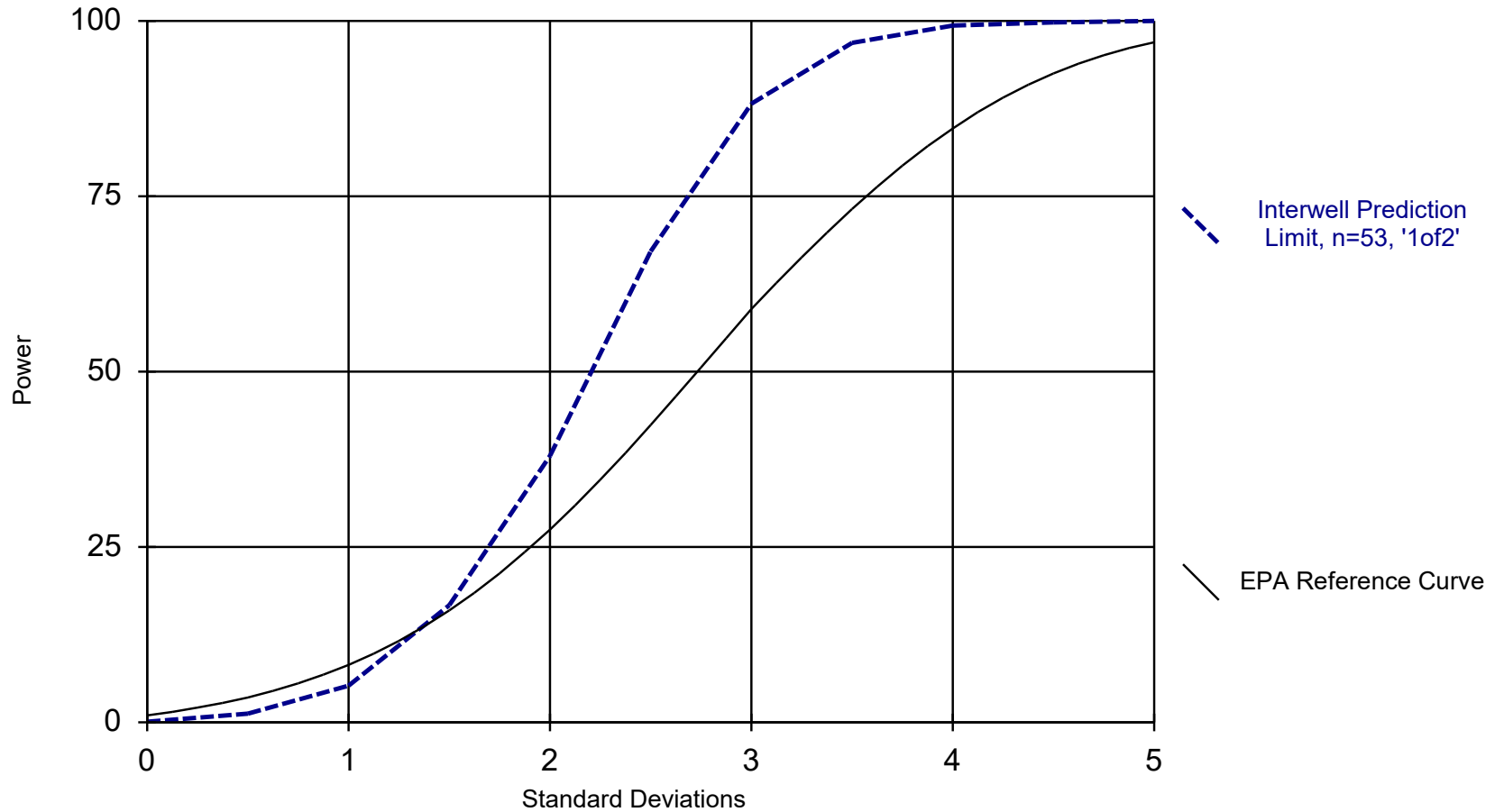
Intrawell Power Curve



Kappa = 2.361, based on 13 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 12/22/2023 12:24 PM
Plant Miller Data: Miller Ash Pond

Interwell Power Curve



Kappa = 2.093, based on 13 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 12/22/2023 12:24 PM

Plant Miller Data: Miller Ash Pond

100% Non-Detects: Appendix IV Downgradient

Analysis Run 12/15/2023 2:46 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

Antimony (mg/L)

MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-13DR, MR-AP-MW-13SR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-2, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Beryllium (mg/L)

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13DR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Cadmium (mg/L)

MR-AP-MW-1, MR-AP-MW-11, MR-AP-MW-13DR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Cobalt (mg/L)

MR-AP-MW-5, MR-AP-MW-7DR, MR-AP-PZ-5

Lead (mg/L)

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR

Mercury (mg/L)

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13DR, MR-AP-MW-13SR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Selenium (mg/L)

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13DR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Thallium (mg/L)

MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-13DR, MR-AP-MW-14R, MR-AP-MW-15, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S, MR-AP-MW-5, MR-AP-MW-6, MR-AP-MW-7DR, MR-AP-MW-7SR, MR-AP-MW-9DR, MR-AP-MW-9SR, MR-AP-PZ-5

Welch's t-test/Mann-Whitney - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/21/2023, 2:59 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Alpha</u>	<u>Method</u>
pH, Field (pH)	MR-AP-MW-10	2.941	Yes	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-15	-3.035	Yes	0.01	Mann-W

Welch's t-test/Mann-Whitney - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/21/2023, 2:59 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Alpha</u>	<u>Method</u>
pH, Field (pH)	GS-AP-MW-8 (bg)	-0.4487	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-1	0.4254	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-10	2.941	Yes	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-11	-0.1217	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-12	1.484	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-15	-3.035	Yes	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-16	2.302	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-2	1.278	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-3D	1.463	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-3S	-1.989	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-4	1.828	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-5	-0.2134	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-6	1.788	No	0.01	Mann-W
pH, Field (pH)	MR-AP-PZ-5	2.029	No	0.01	Mann-W

Upgradient Wells - Trend Test Summary - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/14/2023, 8:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0	104	87	Yes	21	66.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22I (bg)	-0.01069	-24	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23A (bg)	-0.02233	-22	-21	Yes	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22S (bg)	24.54	22	21	Yes	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1651	99	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22D (bg)	72.46	22	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23A (bg)	19.05	24	21	Yes	8	0	n/a	n/a	0.01	NP

Upgradient Wells - Trend Test Summary - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/14/2023, 8:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-13 (bg)	5.9e-10	0	38	No	12	41.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-17V (bg)	-0.002694	-11	-30	No	10	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0	104	87	Yes	21	66.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-21 (bg)	0.0005097	5	30	No	10	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22D (bg)	-0.02029	-11	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22I (bg)	-0.01069	-24	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22S (bg)	0.001805	4	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23 (bg)	-0.01881	-16	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23A (bg)	-0.02233	-22	-21	Yes	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-13 (bg)	-2.607	-32	-38	No	12	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-17V (bg)	0.1203	4	30	No	10	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-8 (bg)	-0.2946	-47	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-21 (bg)	1.088	13	30	No	10	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22D (bg)	0.3397	0	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22I (bg)	-0.497	-12	-21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22S (bg)	24.54	22	21	Yes	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23 (bg)	4.113	8	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23A (bg)	7.452	19	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-13 (bg)	0.1178	10	38	No	12	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-17V (bg)	-0.2384	-29	-30	No	10	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1651	99	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-21 (bg)	0.03042	2	30	No	10	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22D (bg)	113.6	4	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22I (bg)	-25.59	-6	-21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22S (bg)	10.75	3	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23 (bg)	59.42	10	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23A (bg)	17.64	7	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-17V (bg)	0.00066	3	30	No	10	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-8 (bg)	0.002865	46	92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-21 (bg)	-0.01625	-13	-30	No	10	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22D (bg)	0.02344	5	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22I (bg)	-0.04005	-20	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22S (bg)	-0.04231	-18	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23 (bg)	-0.01957	-16	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23A (bg)	-0.01501	-9	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-13 (bg)	0.01849	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-17V (bg)	-0.7	-15	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-8 (bg)	0.2514	63	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-21 (bg)	5.054	20	30	No	10	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22D (bg)	72.46	22	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22I (bg)	-5.992	-14	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22S (bg)	15.51	12	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23 (bg)	0.2373	8	21	No	8	12.5	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23A (bg)	19.05	24	21	Yes	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-13 (bg)	-7.182	-29	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-17V (bg)	-5.63	-17	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-8 (bg)	-1.421	-39	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-21 (bg)	5.483	9	30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22D (bg)	-94.03	0	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22I (bg)	-57.63	-12	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22S (bg)	60.31	14	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23 (bg)	21.54	6	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23A (bg)	124.2	14	21	No	8	0	n/a	n/a	0.01	NP

Appendix III - Intrawell Prediction Limits - Significant Results

Plant Miller Data: Miller Ash Pond Printed 12/19/2023, 1:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	MR-AP-MW-15	6.629	6.223	9/26/2023	5.89	Yes	22	6.426	0.08721	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-16	6.573	5.718	10/11/2023	6.63	Yes	22	6.146	0.1839	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3D	6.994	6.613	10/3/2023	6.5	Yes	23	6.803	0.08277	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-4	6.193	5.565	10/10/2023	6.36	Yes	23	5.879	0.1362	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-6	6.244	5.871	10/3/2023	6.3	Yes	23	6.057	0.08086	0	None	No	0.0002894	Param Intra 1 of 2

Appendix III - Intrawell Prediction Limits - All Results

Plant Miller Data: Miller Ash Pond Printed 12/19/2023, 1:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	GS-AP-MW-13	6.931	6.594	n/a	1 future	n/a	13	6.762	0.06353	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	GS-AP-MW-17V	7.886	7.312	9/11/2023	7.61	No	9	7.599	0.09239	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	GS-AP-MW-8	5.99	5.02	9/18/2023	5.42	No	21	n/a	n/a	0	n/a	n/a	0.007998	NP Intra (normality) 1 of 2
pH, Field (pH)	MR-AP-MW-1	9.785	7.288	10/11/2023	7.96	No	20	8.537	0.529	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-10	7.266	6.525	10/9/2023	7.16	No	22	6.895	0.1593	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-11	7.3	6.5	10/11/2023	6.59	No	23	n/a	n/a	0	n/a	n/a	0.006831	NP Intra (normality) 1 of 2
pH, Field (pH)	MR-AP-MW-12	6.748	6.406	10/2/2023	6.53	No	21	6.577	0.07297	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-15	6.629	6.223	9/26/2023	5.89	Yes	22	6.426	0.08721	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-16	6.573	5.718	10/11/2023	6.63	Yes	22	6.146	0.1839	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-2	6.512	5.839	10/10/2023	6.18	No	22	6.175	0.1446	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-21	8.205	6.984	10/11/2023	7.49	No	9	7.594	0.1963	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3D	6.994	6.613	10/3/2023	6.5	Yes	23	6.803	0.08277	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3S	9.863	8.622	10/3/2023	8.76	No	23	9.243	0.2691	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-4	6.193	5.565	10/10/2023	6.36	Yes	23	5.879	0.1362	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-5	7.318	6.849	10/4/2023	7.1	No	22	7.084	0.1009	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-6	6.244	5.871	10/3/2023	6.3	Yes	23	6.057	0.08086	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-PZ-5	8.671	7.622	10/4/2023	8.35	No	23	8.147	0.2274	0	None	No	0.0002894	Param Intra 1 of 2

Appendix III - Interwell Prediction Limits - Significant Results

Plant Miller Data: Miller Ash Pond Printed 12/15/2023, 2:11 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MR-AP-MW-10	0.1015	n/a	10/9/2023	7.06	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-12	0.1015	n/a	10/2/2023	5.12	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-15	0.1015	n/a	9/26/2023	2.31	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-16	0.1015	n/a	10/11/2023	2.63	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-2	0.1015	n/a	10/10/2023	0.173	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3D	0.1015	n/a	10/3/2023	0.299	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3S	0.1015	n/a	10/3/2023	0.239	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-4	0.1015	n/a	10/10/2023	0.446	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-5	0.1015	n/a	10/4/2023	1.02	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-6	0.1015	n/a	10/3/2023	0.573	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-PZ-5	0.1015	n/a	10/4/2023	0.255	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-1	63.9	n/a	10/11/2023	217	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-10	63.9	n/a	10/9/2023	194	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-11	63.9	n/a	10/11/2023	209	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-15	63.9	n/a	9/26/2023	82.2	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-16	63.9	n/a	10/11/2023	169	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-2	63.9	n/a	10/10/2023	278	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-3D	63.9	n/a	10/3/2023	114	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-4	63.9	n/a	10/10/2023	205	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-5	63.9	n/a	10/4/2023	215	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-6	63.9	n/a	10/3/2023	147	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-3S	21	n/a	10/3/2023	66.6	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-4	21	n/a	10/10/2023	21.4	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-5	21	n/a	10/4/2023	21.8	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-6	21	n/a	10/3/2023	29	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-PZ-5	21	n/a	10/4/2023	27.1	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-10	0.2995	n/a	10/9/2023	0.578	Yes	55	0.1545	0.06944	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-12	0.2995	n/a	10/2/2023	1.07	Yes	55	0.1545	0.06944	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-5	0.2995	n/a	10/4/2023	0.397	Yes	55	0.1545	0.06944	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2995	n/a	10/4/2023	2.27	Yes	55	0.1545	0.06944	0	None	No	0.0005787	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-1	141	n/a	10/11/2023	555	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-10	141	n/a	10/9/2023	1410	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-11	141	n/a	10/11/2023	643	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-12	141	n/a	10/2/2023	493	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-15	141	n/a	9/26/2023	438	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-16	141	n/a	10/11/2023	499	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-2	141	n/a	10/10/2023	1530	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	141	n/a	10/3/2023	292	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-4	141	n/a	10/10/2023	429	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-5	141	n/a	10/4/2023	729	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-6	141	n/a	10/3/2023	426	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	552	n/a	10/9/2023	2410	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	552	n/a	10/11/2023	1040	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	552	n/a	9/26/2023	702	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	552	n/a	10/10/2023	2390	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	552	n/a	10/10/2023	796	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	552	n/a	10/4/2023	1200	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	552	n/a	10/4/2023	890	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2

Appendix III - Trend Test Summary - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/21/2023, 3:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0	104	87	Yes	21	66.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-10	0.4814	133	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-12	0.8275	108	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-15	0.1007	159	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-2	0.01202	118	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22I (bg)	-0.01069	-24	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23A (bg)	-0.02233	-22	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3D	-0.03001	-135	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3S	0.01022	106	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-4	-0.02002	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-PZ-5	-0.03405	-158	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-15	1.891	146	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22S (bg)	24.54	22	21	Yes	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-3D	-25	-196	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-4	-24.62	-185	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-5	-14.31	-152	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-6	4.261	139	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1651	99	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3S	8.488	137	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-4	-4.498	-146	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-5	-3.221	-120	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-6	1.34	139	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-10	0.07867	165	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-12	0.0825	149	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-5	0.02382	140	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2579	173	92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-15	-0.03253	-162	-98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-16	0.06288	124	98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-3D	0.02865	124	105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-4	0.04206	137	105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-6	0.02346	140	105	Yes	24	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-10	60.3	104	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-15	15.45	154	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-16	-30.79	-96	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22D (bg)	72.46	22	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23A (bg)	19.05	24	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	-78.28	-187	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-4	-82.61	-191	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-5	-40.19	-147	-92	Yes	22	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	58.71	97	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	20.31	109	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	-71.72	-113	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	-124	-187	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	-123.7	-177	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	-81.26	-153	-87	Yes	21	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/21/2023, 3:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-13 (bg)	5.9e-10	0	38	No	12	41.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-17V (bg)	-0.002694	-11	-30	No	10	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0	104	87	Yes	21	66.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-10	0.4814	133	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-12	0.8275	108	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-15	0.1007	159	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-16	-0.05613	-60	-87	No	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-2	0.01202	118	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-21 (bg)	0.0005097	5	30	No	10	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22D (bg)	-0.02029	-11	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22I (bg)	-0.01069	-24	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22S (bg)	0.001805	4	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23 (bg)	-0.01881	-16	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23A (bg)	-0.02233	-22	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3D	-0.03001	-135	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3S	0.01022	106	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-4	-0.02002	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-5	-0.0004523	-4	-87	No	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-6	0.009523	66	87	No	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-PZ-5	-0.03405	-158	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-13 (bg)	-2.607	-32	-38	No	12	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-17V (bg)	0.1203	4	30	No	10	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-8 (bg)	-0.2946	-47	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-1	-3.396	-20	-92	No	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-10	7.294	88	92	No	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-11	2.792	41	92	No	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-15	1.891	146	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-16	-10.74	-77	-92	No	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-2	4.382	73	92	No	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-21 (bg)	1.088	13	30	No	10	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22D (bg)	0.3397	0	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22I (bg)	-0.497	-12	-21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22S (bg)	24.54	22	21	Yes	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23 (bg)	4.113	8	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23A (bg)	7.452	19	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-3D	-25	-196	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-4	-24.62	-185	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-5	-14.31	-152	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-6	4.261	139	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-13 (bg)	0.1178	10	38	No	12	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-17V (bg)	-0.2384	-29	-30	No	10	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1651	99	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-21 (bg)	0.03042	2	30	No	10	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22D (bg)	113.6	4	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22I (bg)	-25.59	-6	-21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22S (bg)	10.75	3	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23 (bg)	59.42	10	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23A (bg)	17.64	7	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3S	8.488	137	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-4	-4.498	-146	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-5	-3.221	-120	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-6	1.34	139	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-PZ-5	-1.181	-81	-92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-17V (bg)	0.00066	3	30	No	10	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-8 (bg)	0.002865	46	92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-10	0.07867	165	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-12	0.0825	149	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-21 (bg)	-0.01625	-13	-30	No	10	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22D (bg)	0.02344	5	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22I (bg)	-0.04005	-20	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22S (bg)	-0.04231	-18	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23 (bg)	-0.01957	-16	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23A (bg)	-0.01501	-9	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-5	0.02382	140	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2579	173	92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-13 (bg)	-0.05825	-34	-43	No	13	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-17V (bg)	-0.02446	-15	-30	No	10	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/21/2023, 3:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH, Field (pH)	GS-AP-MW-8 (bg)	-0.0333	-82	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-15	-0.03253	-162	-98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-16	0.06288	124	98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-21 (bg)	0.02639	5	30	No	10	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22D (bg)	0.2547	14	21	No	8	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22I (bg)	0.1911	18	21	No	8	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22S (bg)	0.03476	2	21	No	8	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-23 (bg)	-0.007032	-5	-21	No	8	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-23A (bg)	0.009483	2	21	No	8	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-3D	0.02865	124	105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-4	0.04206	137	105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-6	0.02346	140	105	Yes	24	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-13 (bg)	0.01849	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-17V (bg)	-0.7	-15	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-8 (bg)	0.2514	63	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-1	-9.696	-34	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-10	60.3	104	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-11	-0.2997	-2	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-12	137.6	71	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-15	15.45	154	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-16	-30.79	-96	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-2	6.992	33	92	No	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-21 (bg)	5.054	20	30	No	10	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22D (bg)	72.46	22	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22I (bg)	-5.992	-14	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22S (bg)	15.51	12	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23 (bg)	0.2373	8	21	No	8	12.5	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23A (bg)	19.05	24	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	-78.28	-187	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-4	-82.61	-191	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-5	-40.19	-147	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-6	1.86	18	92	No	22	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-13 (bg)	-7.182	-29	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-17V (bg)	-5.63	-17	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-8 (bg)	-1.421	-39	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	-3.21	-7	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	58.71	97	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	-8.116	-37	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	168.4	49	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	20.31	109	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	-71.72	-113	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	12.37	42	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-21 (bg)	5.483	9	30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22D (bg)	-94.03	0	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22I (bg)	-57.63	-12	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22S (bg)	60.31	14	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23 (bg)	21.54	6	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23A (bg)	124.2	14	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	-124	-187	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	8.697	33	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	-123.7	-177	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	-81.26	-153	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	3.145	25	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	-21.26	-47	-87	No	21	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Miller Data: Miller Ash Pond Printed 12/22/2023, 12:34 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.003	n/a	n/a	n/a	93	n/a	n/a	72.04	n/a	n/a	0.008478 NP Inter
Arsenic (mg/L)	0.00645	n/a	n/a	n/a	93	n/a	n/a	18.28	n/a	n/a	0.008478 NP Inter
Barium (mg/L)	12.8	n/a	n/a	n/a	93	n/a	n/a	0	n/a	n/a	0.008478 NP Inter
Beryllium (mg/L)	0.003	n/a	n/a	n/a	93	n/a	n/a	84.95	n/a	n/a	0.008478 NP Inter
Cadmium (mg/L)	0.001	n/a	n/a	n/a	93	n/a	n/a	84.95	n/a	n/a	0.008478 NP Inter
Chromium (mg/L)	0.01	n/a	n/a	n/a	93	n/a	n/a	35.48	n/a	n/a	0.008478 NP Inter
Cobalt (mg/L)	0.00362	n/a	n/a	n/a	93	n/a	n/a	69.89	n/a	n/a	0.008478 NP Inter
Combined Radium 226 + 228 (pCi/L)	7.76	n/a	n/a	n/a	93	n/a	n/a	0	n/a	n/a	0.008478 NP Inter
Fluoride, total (mg/L)	0.436	n/a	n/a	n/a	95	n/a	n/a	0	n/a	n/a	0.007651 NP Inter
Lead (mg/L)	0.00189	n/a	n/a	n/a	93	n/a	n/a	91.4	n/a	n/a	0.008478 NP Inter
Lithium (mg/L)	1.3	n/a	n/a	n/a	93	n/a	n/a	11.83	n/a	n/a	0.008478 NP Inter
Mercury (mg/L)	0.0005	n/a	n/a	n/a	93	n/a	n/a	84.95	n/a	n/a	0.008478 NP Inter
Molybdenum (mg/L)	0.0282	n/a	n/a	n/a	93	n/a	n/a	34.41	n/a	n/a	0.008478 NP Inter
Selenium (mg/L)	0.01	n/a	n/a	n/a	93	n/a	n/a	84.95	n/a	n/a	0.008478 NP Inter
Thallium (mg/L)	0.001	n/a	n/a	n/a	93	n/a	n/a	84.95	n/a	n/a	0.008478 NP Inter

MILLER AP GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.00645	0.01
Barium	mg/L	12.8	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	0.00362	0.006
Combined Radium-226/228	pCi/L	7.76	5
Fluoride	mg/L	0.436	4
Lead	mg/L	0.00189	0.015
Lithium	mg/L	1.3	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0282	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2023.

Appendix IV - Confidence Intervals - Significant Results

Plant Miller Data: Miller Ash Pond Printed 12/15/2023, 2:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MR-AP-MW-3D	0.0139	0.01088	0.01	Yes 8	0.001427	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-13SR	0.09602	0.04477	0.006	Yes 7	0.02895	0	None	x^2	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-2	0.05303	0.03864	0.006	Yes 8	0.006788	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-1	0.2063	0.1197	0.04	Yes 8	0.04086	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-10	0.2999	0.1611	0.04	Yes 8	0.06552	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.3669	0.1563	0.04	Yes 8	0.09933	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-12	0.1891	0.06972	0.04	Yes 8	0.05631	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-16	0.1659	0.05943	0.04	Yes 8	0.05021	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.273	0.211	0.04	Yes 8	0.02838	0	None	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-3D	0.1193	0.09502	0.04	Yes 8	0.01145	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3S	0.351	0.2377	0.04	Yes 8	0.05347	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.07808	0.06034	0.04	Yes 8	0.008368	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.2378	0.1915	0.04	Yes 8	0.02183	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-6	0.09	0.06693	0.04	Yes 8	0.01385	0	None	x^3	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7DR	0.1308	0.1044	0.04	Yes 7	0.0111	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7SR	0.1677	0.1412	0.04	Yes 7	0.01116	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9DR	0.08403	0.06102	0.04	Yes 7	0.009685	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9SR	0.04638	0.04022	0.04	Yes 7	0.002595	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-PZ-5	0.1682	0.128	0.04	Yes 8	0.01898	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-10	0.6893	0.2486	0.1	Yes 8	0.2185	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-12	0.9589	0.3461	0.1	Yes 8	0.2891	0	None	No	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant Miller Data: Miller Ash Pond Printed 12/15/2023, 2:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MR-AP-MW-1	0.0255	0.00102	0.006	No	8	0.008965	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-12	0.001015	0.00056	0.006	No	8	0.0002061	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-16	0.001015	0.000768	0.006	No	8	0.00008733	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-3D	0.00447	0.001015	0.006	No	8	0.001222	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-3S	0.00289	0.001015	0.006	No	8	0.0006629	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-6	0.00225	0.001015	0.006	No	8	0.0004366	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-1	0.004083	0.001334	0.01	No	8	0.001439	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-10	0.061	0.00142	0.01	No	8	0.02149	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-11	0.000203	0.00008	0.01	No	8	0.00005685	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-12	0.008543	0.004187	0.01	No	8	0.002055	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13DR	0.0025	0.000396	0.01	No	7	0.0007477	14.29	None	No	0.008	NP (normality)
Arsenic (mg/L)	MR-AP-MW-13SR	0.002138	0.0009131	0.01	No	7	0.0005157	14.29	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-14R	0.0025	0.000139	0.01	No	7	0.0008706	14.29	None	No	0.008	NP (normality)
Arsenic (mg/L)	MR-AP-MW-15	0.001221	0.0005267	0.01	No	8	0.00194	25	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-16	0.002586	0.000563	0.01	No	8	0.001919	25	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-2	0.00468	0.003	0.01	No	8	0.0007926	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-3D	0.0139	0.01088	0.01	Yes	8	0.001427	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-3S	0.001776	0.0006002	0.01	No	8	0.0006936	12.5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-4	0.005	0.000146	0.01	No	8	0.002191	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-5	0.0128	0.00877	0.01	No	8	0.0019	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-6	0.00086	0.000104	0.01	No	8	0.000245	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-7DR	0.002878	0.0003325	0.01	No	7	0.001818	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-7SR	0.002489	0.001545	0.01	No	7	0.0003973	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-9DR	0.0025	0.00051	0.01	No	7	0.0007218	14.29	None	No	0.008	NP (normality)
Arsenic (mg/L)	MR-AP-MW-9SR	0.001314	0.0006015	0.01	No	7	0.0003255	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-PZ-5	0.0008969	0.0001033	0.01	No	8	0.000529	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MR-AP-MW-1	0.1804	0.03474	2	No	8	0.0687	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-10	0.02025	0.01295	2	No	8	0.003446	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-11	0.0426	0.0268	2	No	8	0.007457	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-12	0.01913	0.0144	2	No	8	0.00223	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13DR	0.1171	0.04302	2	No	7	0.03419	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MR-AP-MW-13SR	0.03726	0.01436	2	No	7	0.01057	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MR-AP-MW-14R	0.116	0.0998	2	No	7	0.006049	0	None	No	0.008	NP (normality)
Barium (mg/L)	MR-AP-MW-15	0.04864	0.02396	2	No	8	0.01164	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-16	0.02937	0.01935	2	No	8	0.004725	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-2	0.01873	0.01555	2	No	8	0.001501	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-3D	0.03317	0.025	2	No	8	0.003854	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-3S	0.347	0.13	2	No	8	0.07179	0	None	No	0.004	NP (normality)
Barium (mg/L)	MR-AP-MW-4	0.01773	0.01182	2	No	8	0.002787	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-5	0.01837	0.01556	2	No	8	0.001324	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-6	0.02544	0.02261	2	No	8	0.001338	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7DR	0.0331	0.0261	2	No	7	0.002343	0	None	No	0.008	NP (normality)
Barium (mg/L)	MR-AP-MW-7SR	0.04469	0.038	2	No	7	0.002814	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-9DR	0.0408	0.0202	2	No	7	0.009796	0	None	No	0.008	NP (normality)
Barium (mg/L)	MR-AP-MW-9SR	0.0242	0.01602	2	No	7	0.00361	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MR-AP-PZ-5	0.2564	0.1796	2	No	8	0.03621	0	None	No	0.01	Param.
Beryllium (mg/L)	MR-AP-MW-13SR	0.002429	0.001276	0.004	No	7	0.0005798	28.57	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MR-AP-MW-10	0.000203	0.00009	0.005	No	8	0.0000505	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-12	0.000203	0.0000927	0.005	No	8	0.0000446	62.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-13SR	0.0006714	0.0000163	0.005	No	7	0.0002578	42.86	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MR-AP-MW-4	0.000203	0.000073	0.005	No	8	0.00005859	75	Kaplan-Meier	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-1	0.00645	0.0008464	0.1	No	8	0.003204	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-10	0.00139	0.000411	0.1	No	8	0.0003739	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-11	0.001015	0.00027	0.1	No	8	0.0003815	50	None	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-12	0.001241	0.0003049	0.1	No	8	0.0005573	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-13DR	0.0005201	0.0001916	0.1	No	7	0.0003559	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-13SR	0.0005537	0.0002168	0.1	No	7	0.0003414	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-14R	0.001015	0.000239	0.1	No	7	0.0003628	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	MR-AP-MW-15	0.001015	0.000243	0.1	No	8	0.0003789	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-16	0.001015	0.000239	0.1	No	8	0.0002839	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-2	0.001015	0.00021	0.1	No	8	0.0003649	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-3D	0.001015	0.000259	0.1	No	8	0.0003841	50	None	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-3S	0.01	0.00034	0.1	No	8	0.004395	25	None	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-4	0.001015	0.000278	0.1	No	8	0.0003658	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-5	0.001015	0.00027	0.1	No	8	0.0002634	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-6	0.001015	0.00023	0.1	No	8	0.0004001	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7DR	0.001015	0.000282	0.1	No	7	0.0003533	71.43	None	No	0.008	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7SR	0.001015	0.000219	0.1	No	7	0.0004181	57.14	None	No	0.008	NP (NDs)

Appendix IV - Confidence Intervals - All Results

Plant Miller Data: Miller Ash Pond Printed 12/15/2023, 2:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MR-AP-MW-10	0.2999	0.1611	0.04	Yes	8	0.06552	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.3669	0.1563	0.04	Yes	8	0.09933	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-12	0.1891	0.06972	0.04	Yes	8	0.05631	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13DR	0.04104	0.03191	0.04	No	7	0.003844	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13SR	0.0475	0.0199	0.04	No	7	0.009463	0	None	No	0.008	NP (normality)
Lithium (mg/L)	MR-AP-MW-14R	0.0212	0.0198	0.04	No	7	0.0005888	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-15	0.023	0.0177	0.04	No	8	0.00201	0	None	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-16	0.1659	0.05943	0.04	Yes	8	0.05021	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.273	0.211	0.04	Yes	8	0.02838	0	None	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-3D	0.1193	0.09502	0.04	Yes	8	0.01145	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3S	0.351	0.2377	0.04	Yes	8	0.05347	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.07808	0.06034	0.04	Yes	8	0.008368	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.2378	0.1915	0.04	Yes	8	0.02183	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-6	0.09	0.06693	0.04	Yes	8	0.01385	0	None	x^3	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7DR	0.1308	0.1044	0.04	Yes	7	0.0111	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7SR	0.1677	0.1412	0.04	Yes	7	0.01116	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9DR	0.08403	0.06102	0.04	Yes	7	0.009685	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9SR	0.04638	0.04022	0.04	Yes	7	0.002595	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-PZ-5	0.1682	0.128	0.04	Yes	8	0.01898	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-1	0.01109	0.004673	0.1	No	8	0.003147	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-10	0.6893	0.2486	0.1	Yes	8	0.2185	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-11	0.01015	0.00039	0.1	No	8	0.004985	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-12	0.9589	0.3461	0.1	Yes	8	0.2891	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-13DR	0.005106	0.00225	0.1	No	7	0.00338	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-13SR	0.01015	0.00011	0.1	No	7	0.004704	28.57	None	No	0.008	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-14R	0.01015	0.00009	0.1	No	7	0.00536	57.14	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-15	0.01015	0.00008	0.1	No	8	0.005133	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-16	0.07439	0.02978	0.1	No	8	0.02104	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-2	0.01015	0.00166	0.1	No	8	0.004093	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-3D	0.02791	0.02439	0.1	No	8	0.001657	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-3S	0.0668	0.0449	0.1	No	8	0.008795	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-4	0.01015	0.00007	0.1	No	8	0.00537	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-5	0.09509	0.07138	0.1	No	8	0.01119	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-6	0.01015	0.00135	0.1	No	8	0.004305	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-7DR	0.006722	0.003806	0.1	No	7	0.001227	14.29	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-7SR	0.03568	0.02903	0.1	No	7	0.002799	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-9DR	0.01015	0.000304	0.1	No	7	0.005145	42.86	None	No	0.008	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-9SR	0.001793	0.0002408	0.1	No	7	0.004548	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-PZ-5	0.01015	0.000184	0.1	No	8	0.00526	50	None	No	0.004	NP (normality)
Selenium (mg/L)	MR-AP-MW-13SR	0.001015	0.000598	0.05	No	7	0.0001576	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	MR-AP-MW-16	0.004993	0.0009223	0.05	No	8	0.002228	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	MR-AP-MW-4	0.00112	0.000539	0.05	No	8	0.0001891	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Thallium (mg/L)	MR-AP-MW-13SR	0.0003279	0.00006039	0.002	No	7	0.0001459	14.29	None	x^(1/3)	0.01	Param.
Thallium (mg/L)	MR-AP-MW-16	0.000203	0.00007	0.002	No	8	0.00006115	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	MR-AP-MW-4	0.000203	0.00007	0.002	No	8	0.00004702	87.5	None	No	0.004	NP (NDs)

Appendix IV - Trend Tests Summary - Significant Results

Plant Miller Data: Miller Ash Pond Printed 12/21/2023, 2:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MR-AP-MW-22I (bg)	-0.0003967	-28	-17	Yes	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-22S (bg)	-0.0001277	-18	-17	Yes	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-23A (bg)	0.001344	20	17	Yes	8	0	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-2	-0.006949	-130	-66	Yes	21	0	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-21 (bg)	-0.001176	-27	-23	Yes	10	40	n/a	0.05	NP
Lithium (mg/L)	GS-AP-MW-17V (bg)	-0.004015	-33	-23	Yes	10	0	n/a	0.05	NP
Lithium (mg/L)	GS-AP-MW-8 (bg)	-0.005893	-139	-66	Yes	21	38.1	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-10	0.006512	71	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-11	0.03469	102	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-12	-0.02092	-109	-62	Yes	20	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-3D	-0.004373	-116	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-3S	0.01871	103	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-4	-0.006514	-156	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-PZ-5	-0.006839	-84	-66	Yes	21	0	n/a	0.05	NP
Molybdenum (mg/L)	GS-AP-MW-8 (bg)	0	77	66	Yes	21	61.9	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-10	0.0486	112	66	Yes	21	0	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-12	0.09188	128	62	Yes	20	0	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-22D (bg)	0.006308	18	17	Yes	8	0	n/a	0.05	NP

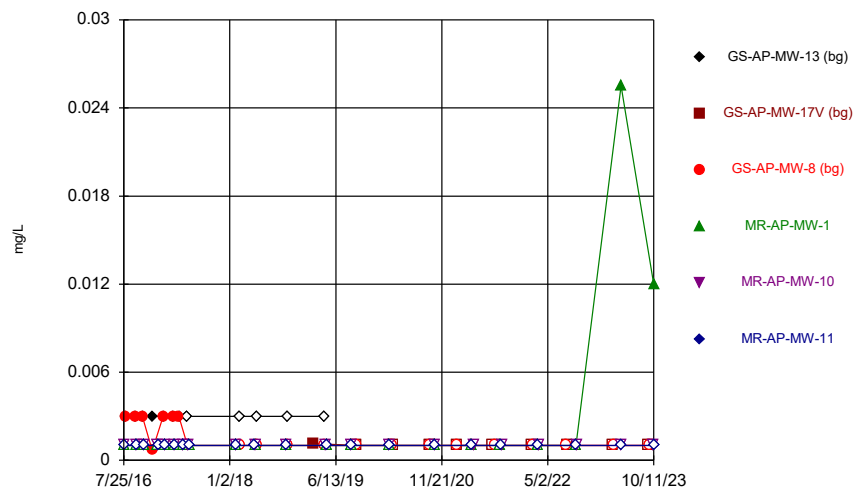
Appendix IV - Trend Tests Summary - All Results

Plant Miller Data: Miller Ash Pond Printed 12/21/2023, 2:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	GS-AP-MW-13 (bg)	-4.4e-11	0	30	No	12	41.67	n/a	0.05	NP
Arsenic (mg/L)	GS-AP-MW-17V (bg)	-0.0002279	-12	-23	No	10	20	n/a	0.05	NP
Arsenic (mg/L)	GS-AP-MW-8 (bg)	-0.00005185	-63	-66	No	21	38.1	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-21 (bg)	-0.00008149	-9	-23	No	10	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-22D (bg)	-0.0002927	-4	-17	No	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-22I (bg)	-0.0003967	-28	-17	Yes	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-22S (bg)	-0.0001277	-18	-17	Yes	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-23 (bg)	-0.0002921	-9	-17	No	8	25	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-23A (bg)	0.001344	20	17	Yes	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-3D	0.0002139	61	66	No	21	0	n/a	0.05	NP
Cobalt (mg/L)	GS-AP-MW-13 (bg)	0	0	30	No	12	100	n/a	0.05	NP
Cobalt (mg/L)	GS-AP-MW-17V (bg)	0	0	23	No	10	100	n/a	0.05	NP
Cobalt (mg/L)	GS-AP-MW-8 (bg)	-0.00008049	-53	-66	No	21	47.62	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-13SR	0.01486	15	15	No	7	0	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-2	-0.006949	-130	-66	Yes	21	0	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-21 (bg)	-0.001176	-27	-23	Yes	10	40	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-22D (bg)	0	0	17	No	8	100	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-22I (bg)	0	0	17	No	8	100	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-22S (bg)	0	0	17	No	8	100	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-23 (bg)	-0.00002902	-10	-17	No	8	50	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-23A (bg)	-0.0001647	-6	-17	No	8	12.5	n/a	0.05	NP
Lithium (mg/L)	GS-AP-MW-13 (bg)	0	4	30	No	12	25	n/a	0.05	NP
Lithium (mg/L)	GS-AP-MW-17V (bg)	-0.004015	-33	-23	Yes	10	0	n/a	0.05	NP
Lithium (mg/L)	GS-AP-MW-8 (bg)	-0.005893	-139	-66	Yes	21	38.1	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-1	0.003422	28	66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-10	0.006512	71	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-11	0.03469	102	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-12	-0.02092	-109	-62	Yes	20	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-16	0.008542	58	66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-2	0.005303	43	66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-21 (bg)	0.001841	15	23	No	10	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-22D (bg)	-0.07471	-10	-17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-22I (bg)	-0.01279	-16	-17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-22S (bg)	-0.000713	0	17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-23 (bg)	-0.08875	-12	-17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-23A (bg)	-0.09422	-12	-17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-3D	-0.004373	-116	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-3S	0.01871	103	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-4	-0.006514	-156	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-5	-0.004737	-66	-66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-6	-0.001049	-32	-66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-7DR	-0.00365	-6	-15	No	7	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-7SR	0.006257	4	15	No	7	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-9DR	-0.007411	-11	-15	No	7	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-9SR	0.0002033	2	15	No	7	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-PZ-5	-0.006839	-84	-66	Yes	21	0	n/a	0.05	NP
Molybdenum (mg/L)	GS-AP-MW-13 (bg)	-8.9e-11	0	30	No	12	41.67	n/a	0.05	NP
Molybdenum (mg/L)	GS-AP-MW-17V (bg)	0.0002748	4	23	No	10	20	n/a	0.05	NP
Molybdenum (mg/L)	GS-AP-MW-8 (bg)	0	77	66	Yes	21	61.9	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-10	0.0486	112	66	Yes	21	0	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-12	0.09188	128	62	Yes	20	0	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-21 (bg)	0	-5	-23	No	10	40	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-22D (bg)	0.006308	18	17	Yes	8	0	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-22I (bg)	0.0005682	5	17	No	8	25	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-22S (bg)	-0.00001545	-3	-17	No	8	37.5	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-23 (bg)	-0.0006445	-3	-17	No	8	25	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-23A (bg)	0.0007452	8	17	No	8	12.5	n/a	0.05	NP

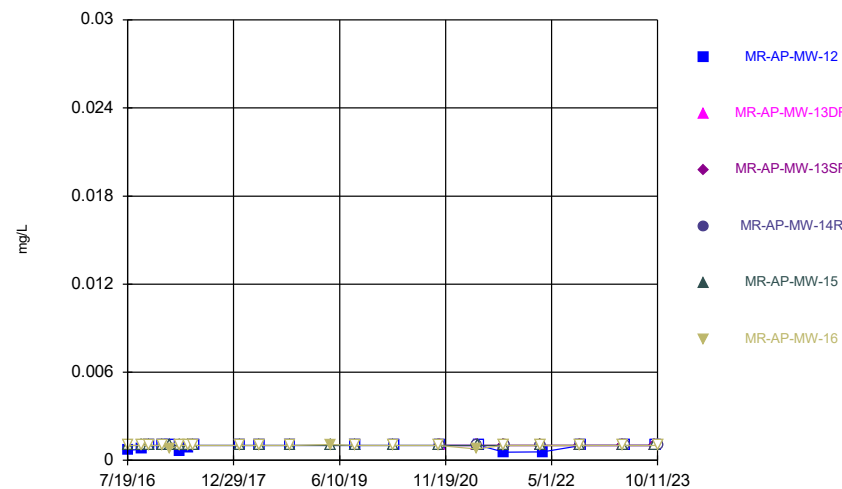
FIGURE A.

Time Series



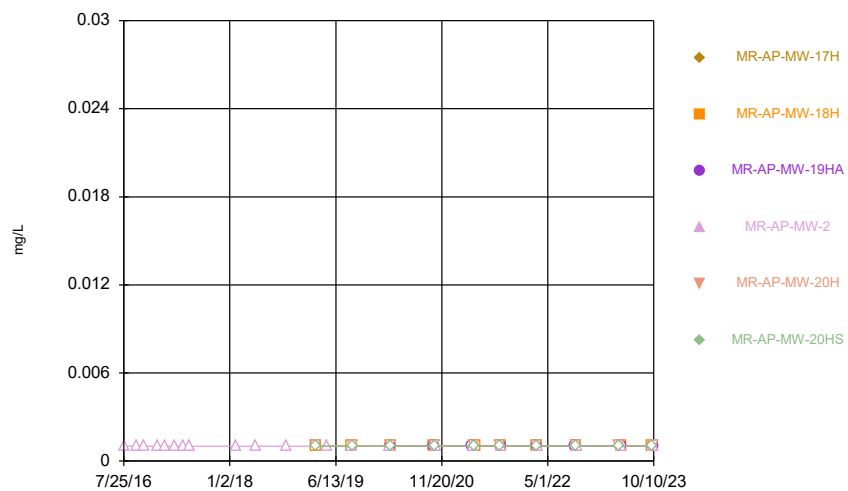
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Plant Miller Data: Miller Ash Pond

Time Series



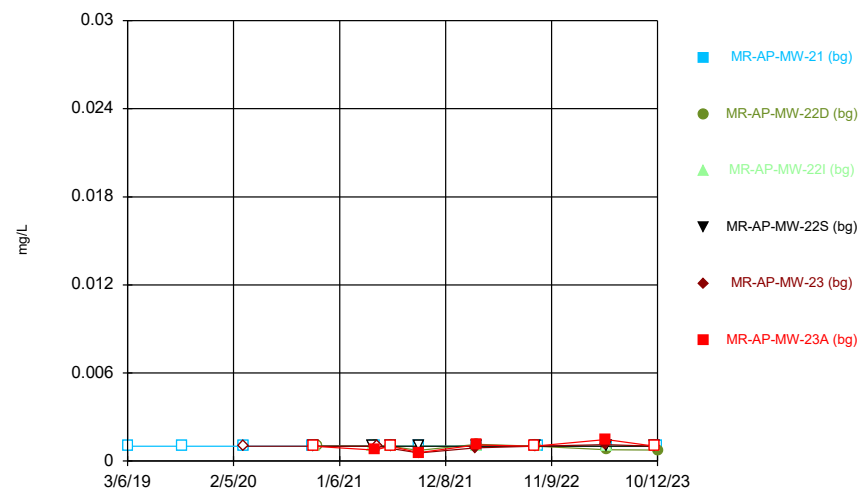
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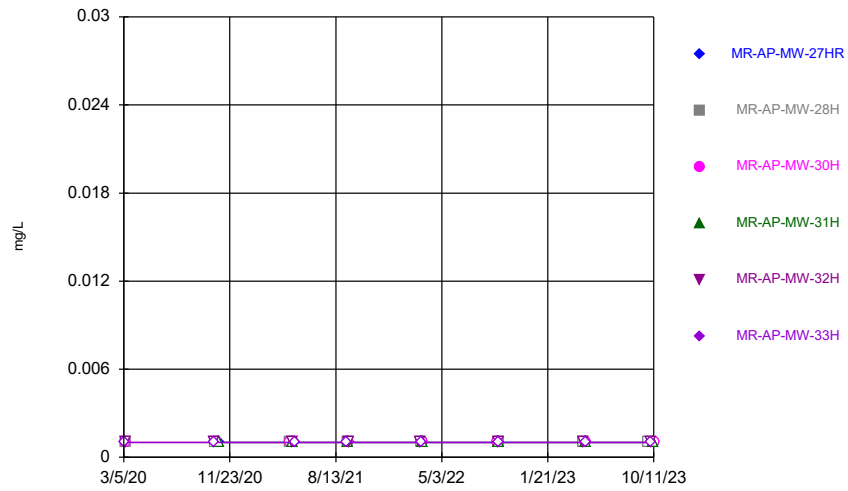
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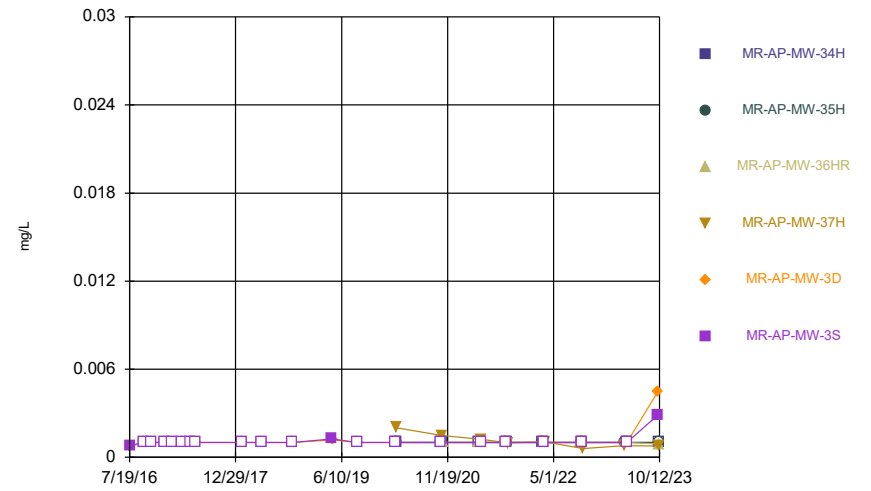
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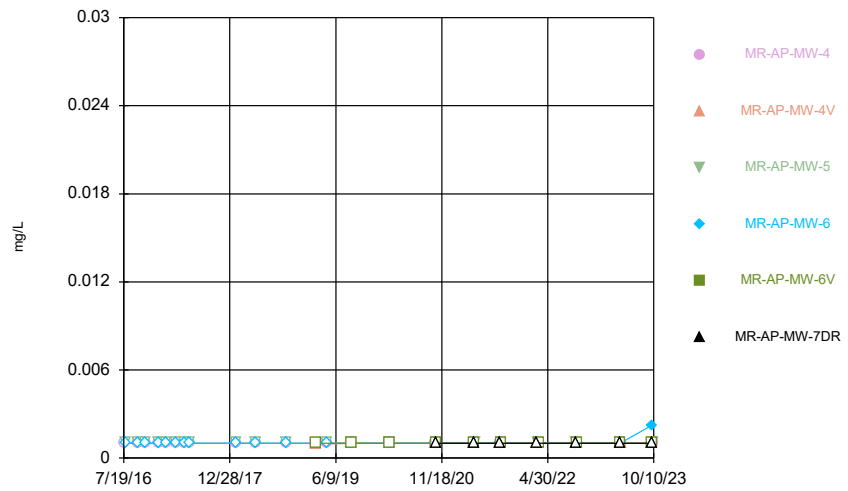
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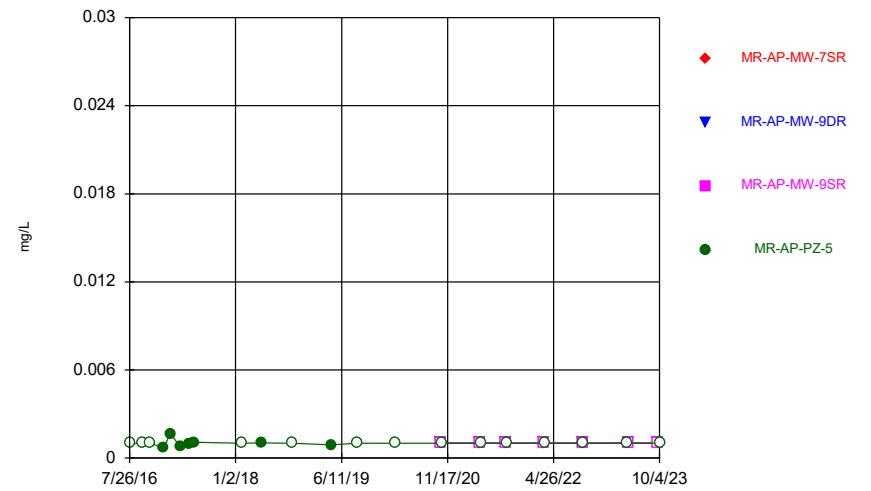
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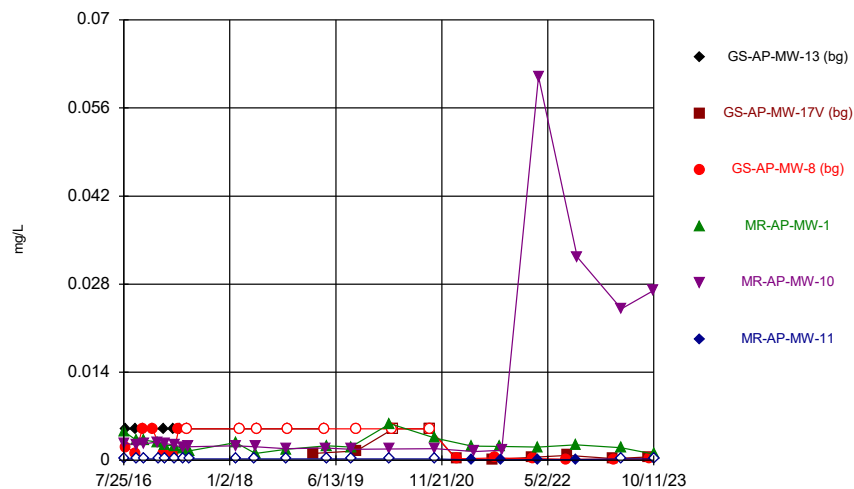
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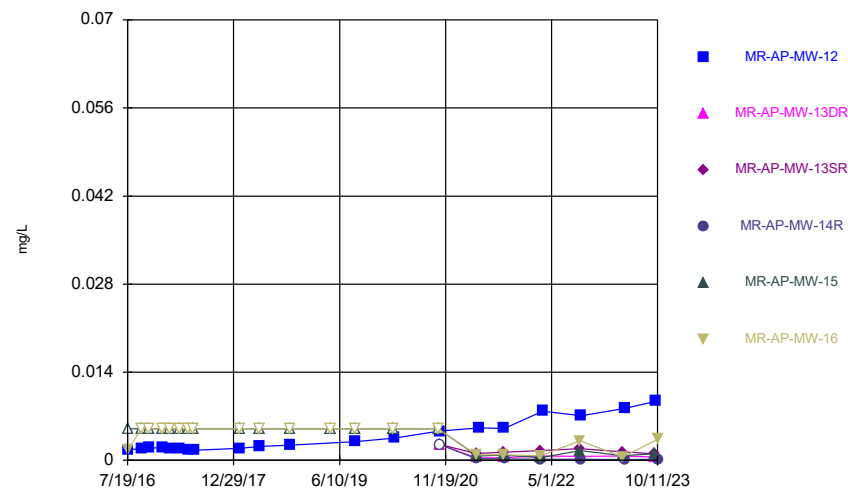
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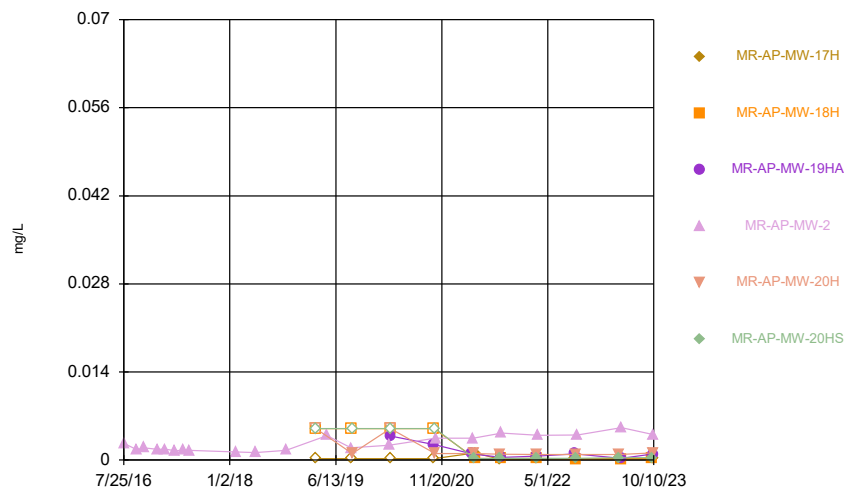
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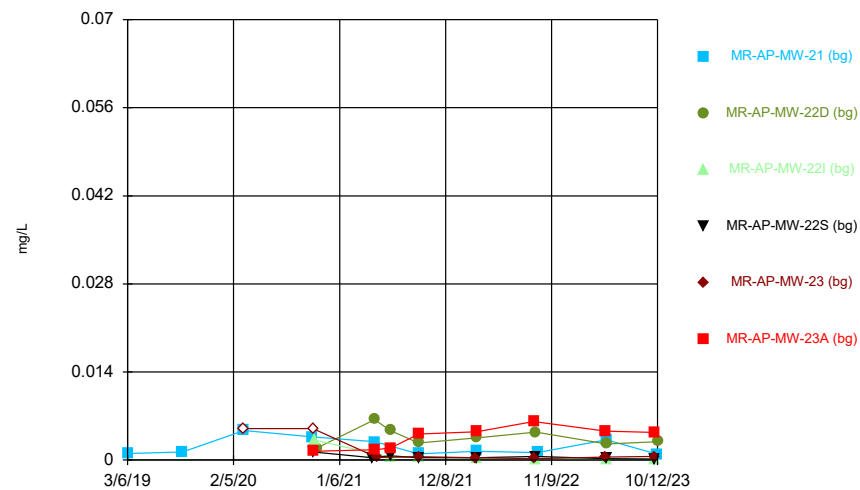
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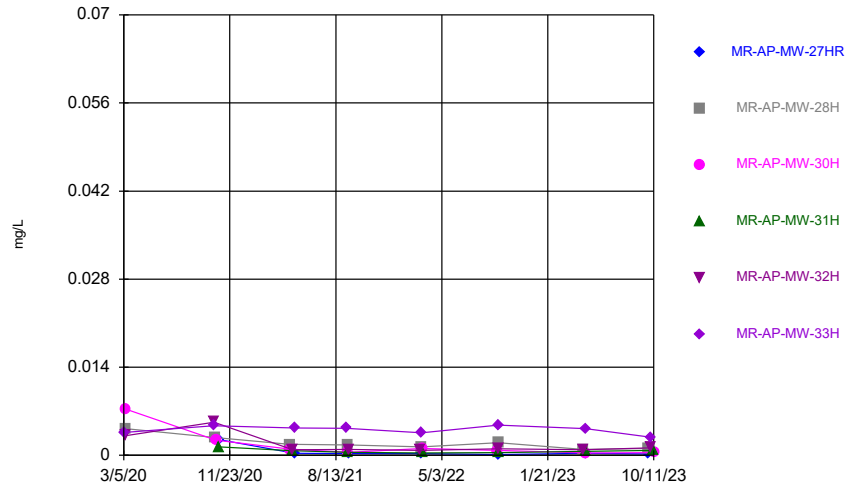
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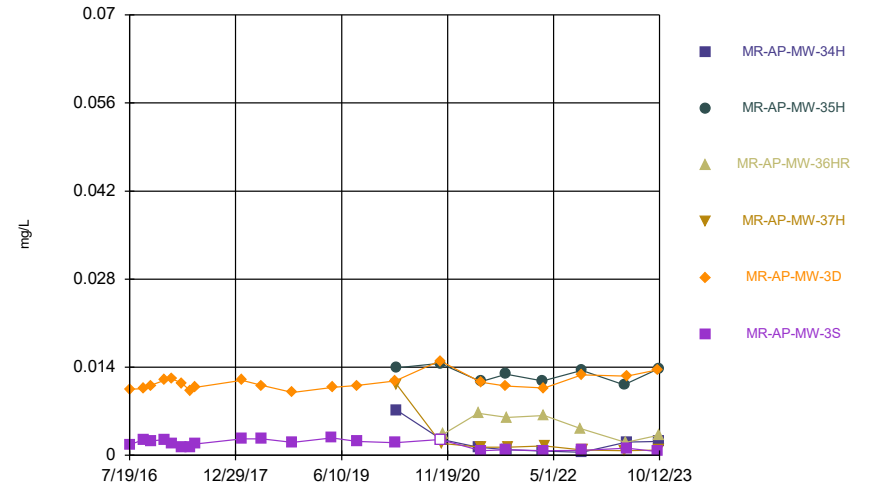
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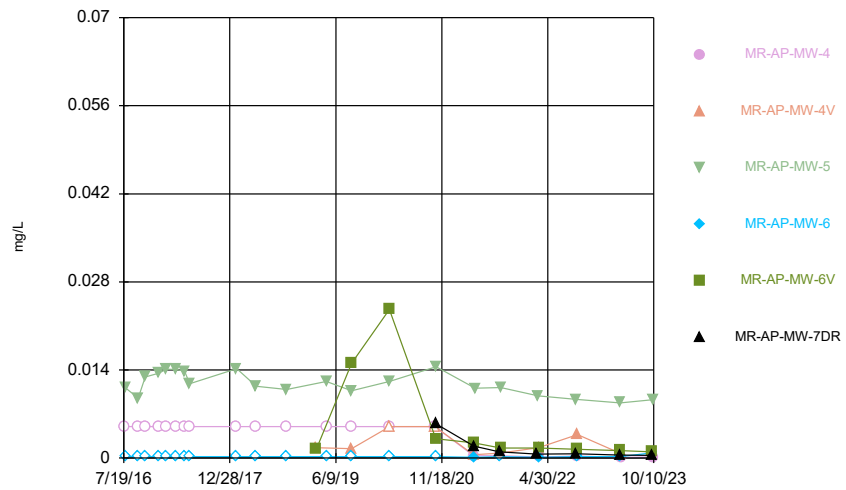
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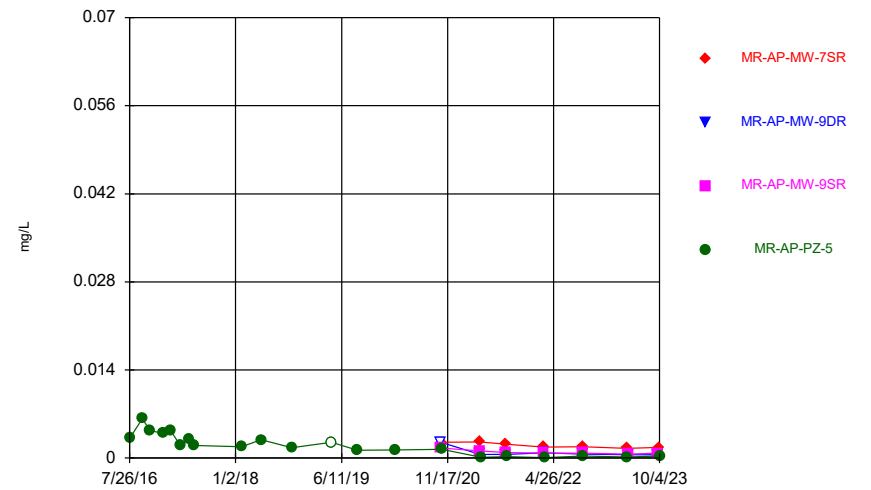
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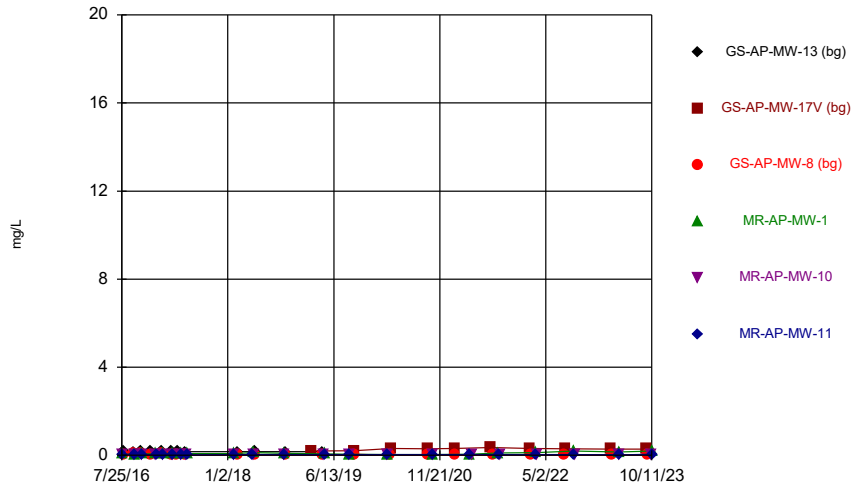
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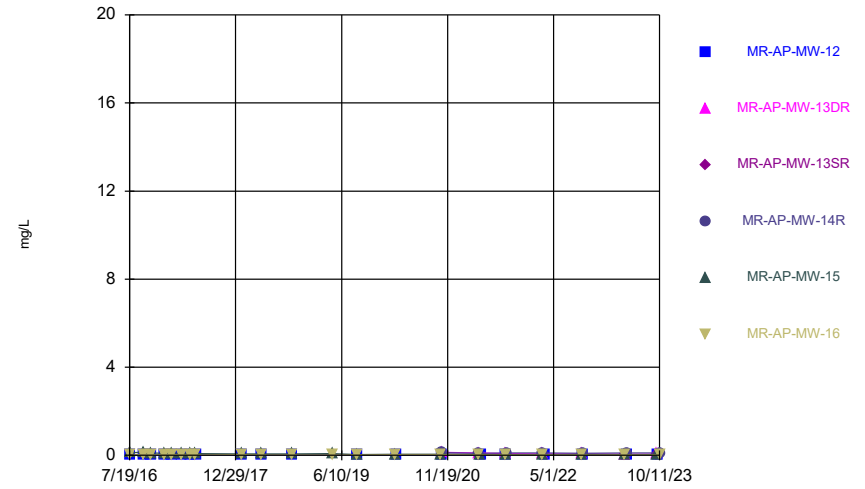
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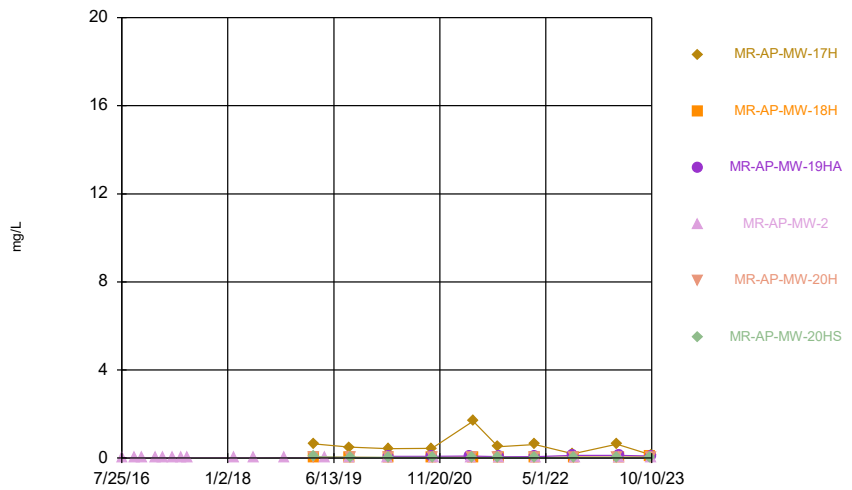
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Time Series



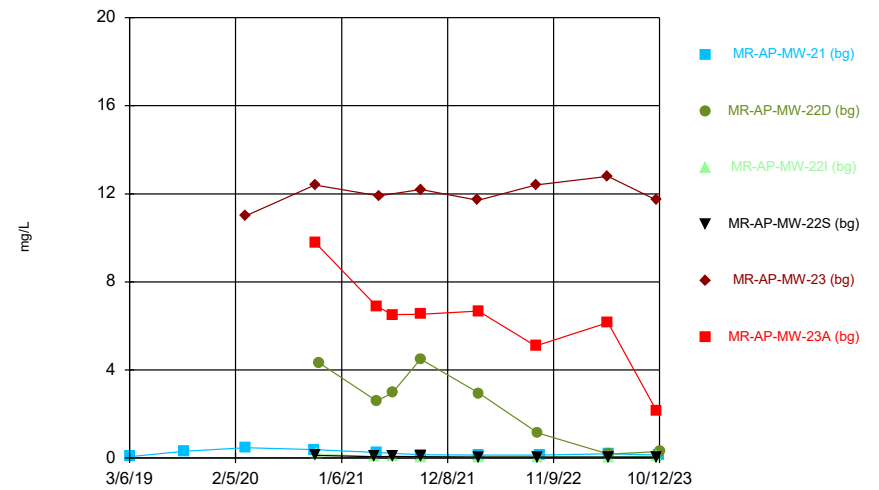
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Time Series



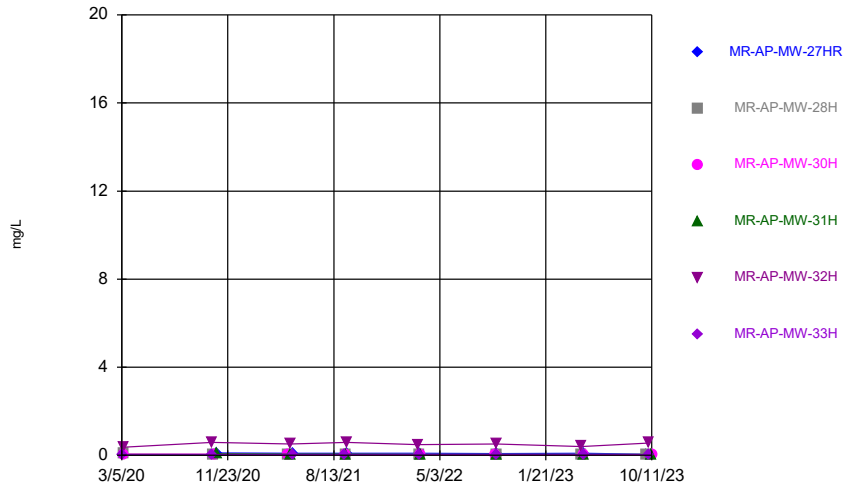
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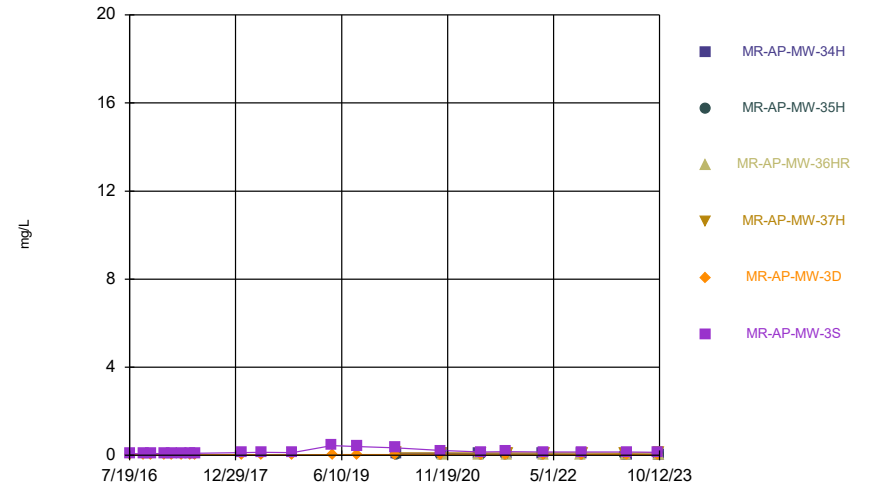
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Time Series



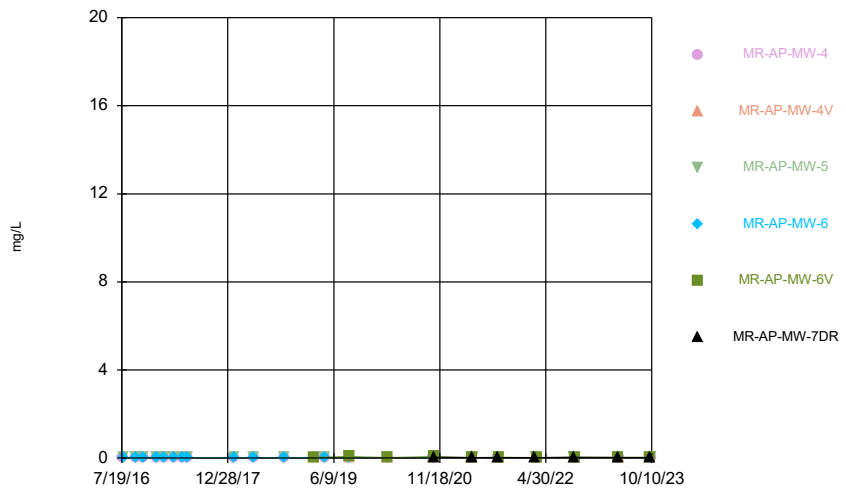
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Plant Miller Data: Miller Ash Pond

Time Series



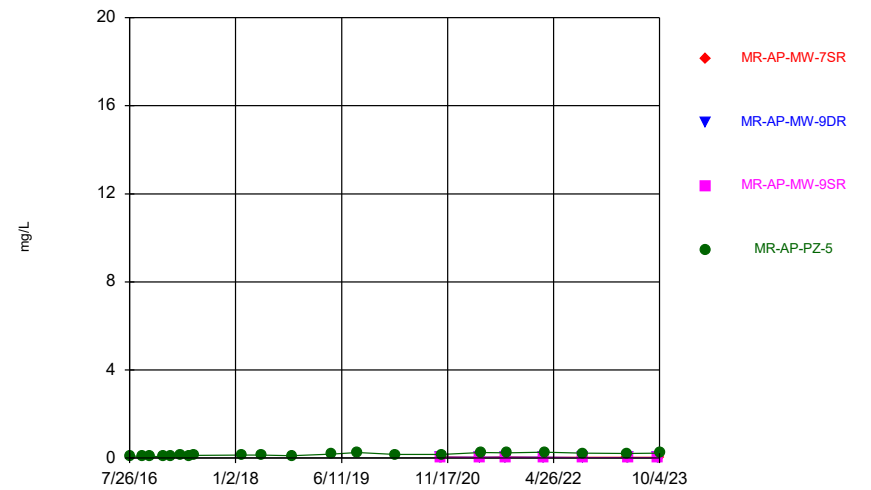
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Time Series



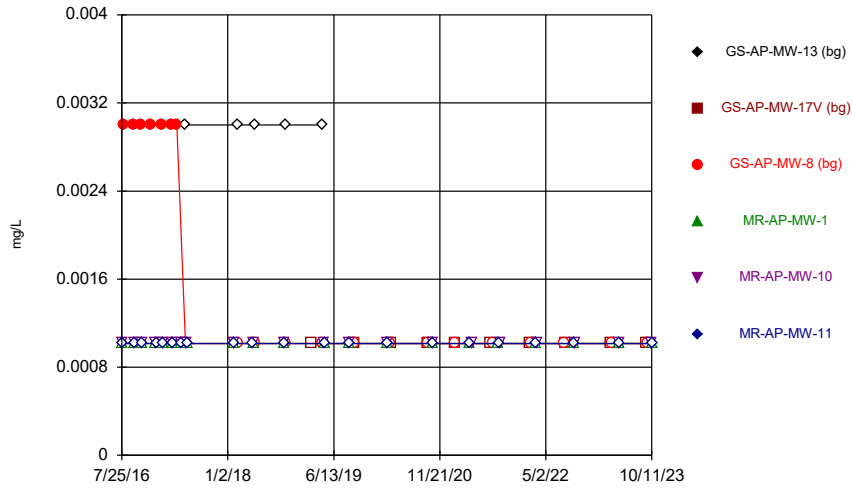
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Time Series



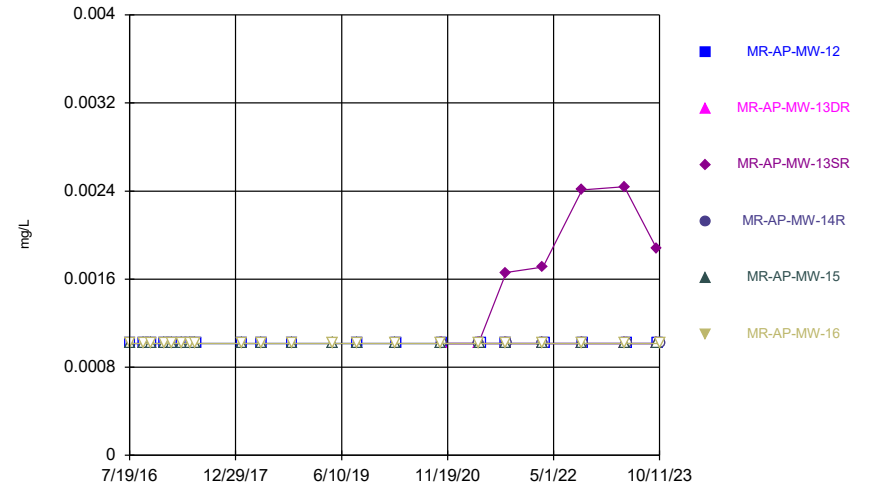
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Plant Miller Data: Miller Ash Pond

Time Series



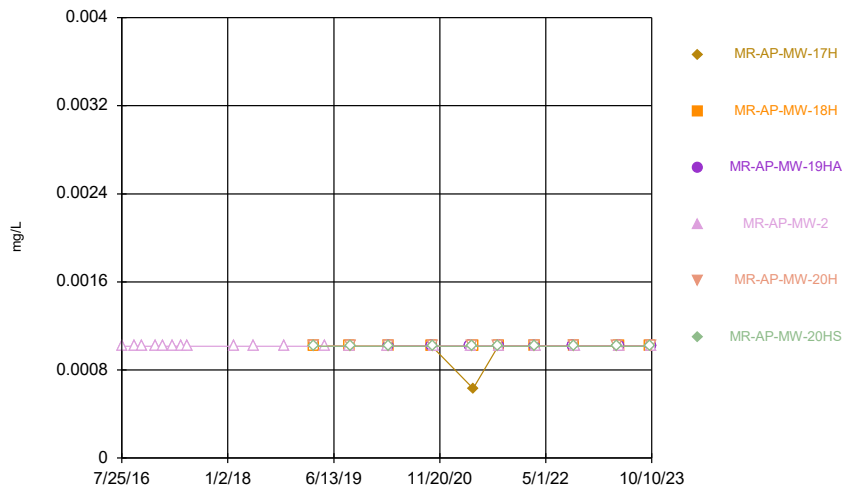
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Time Series



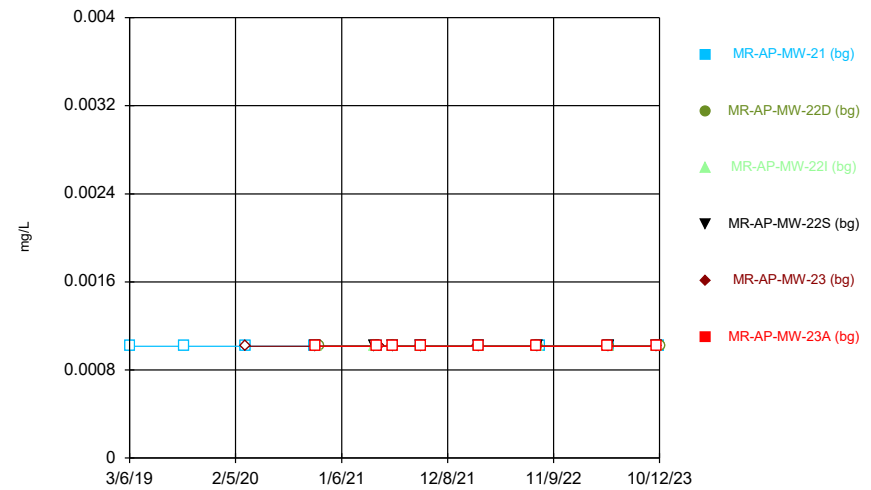
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Time Series



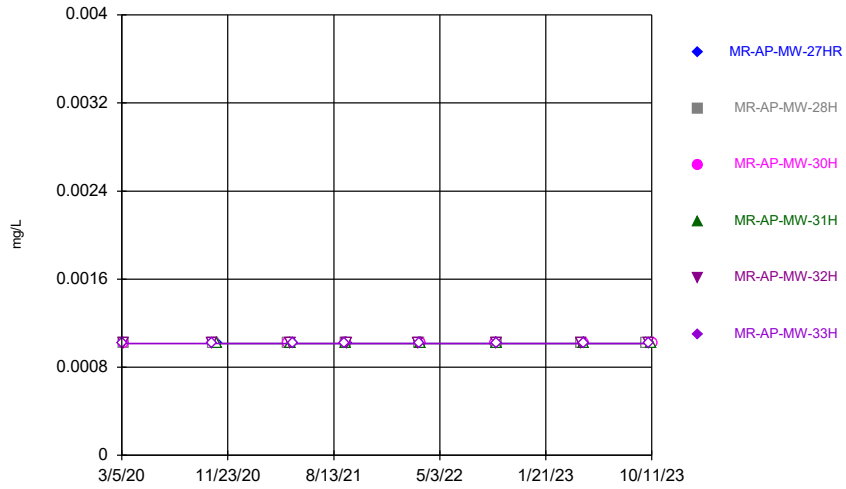
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Time Series



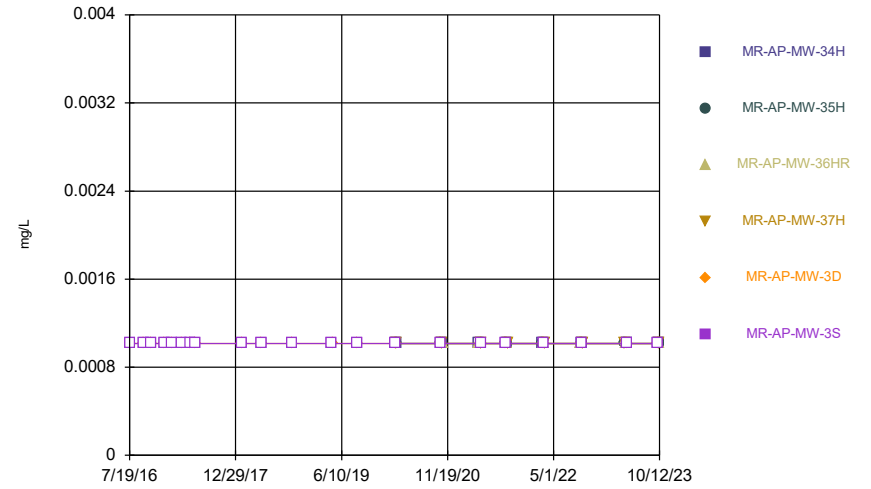
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Time Series



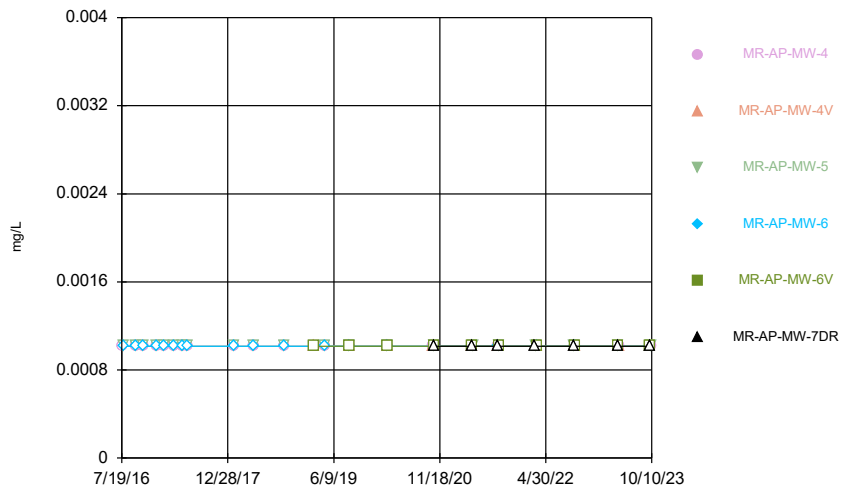
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Time Series



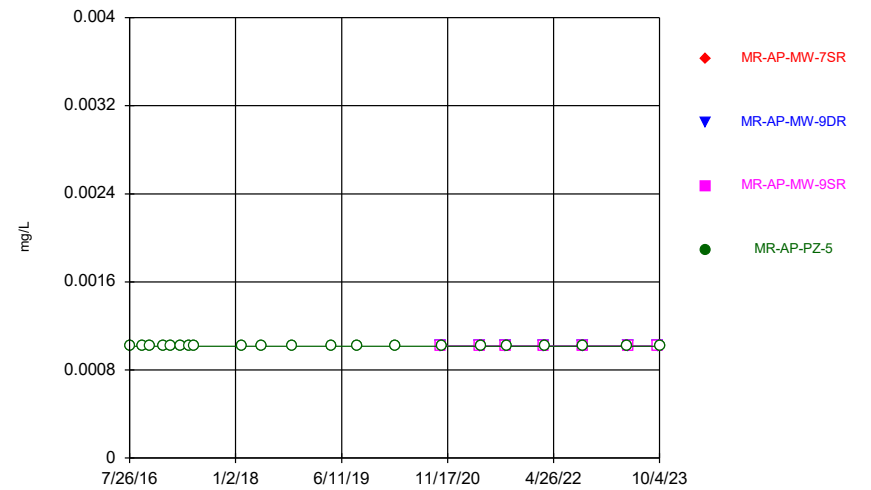
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Time Series



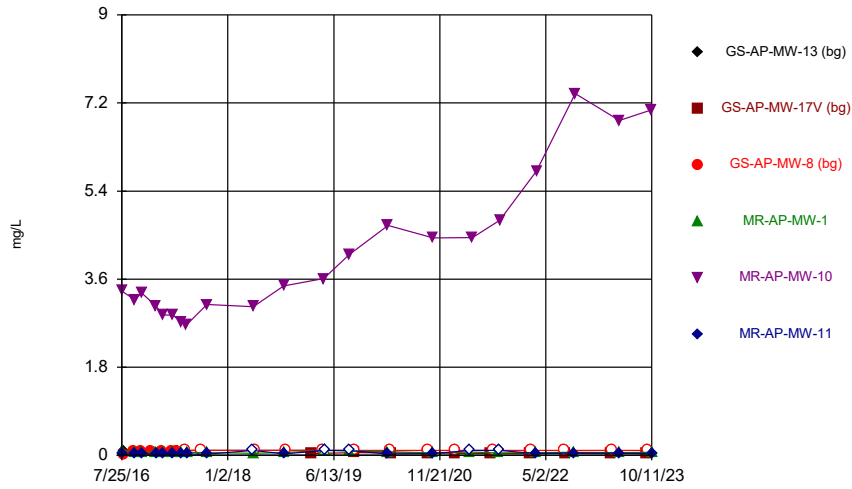
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Time Series



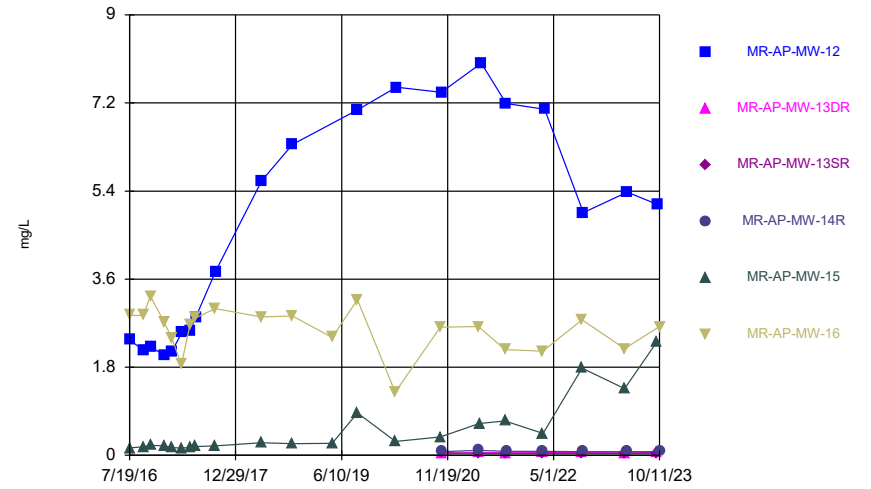
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Time Series



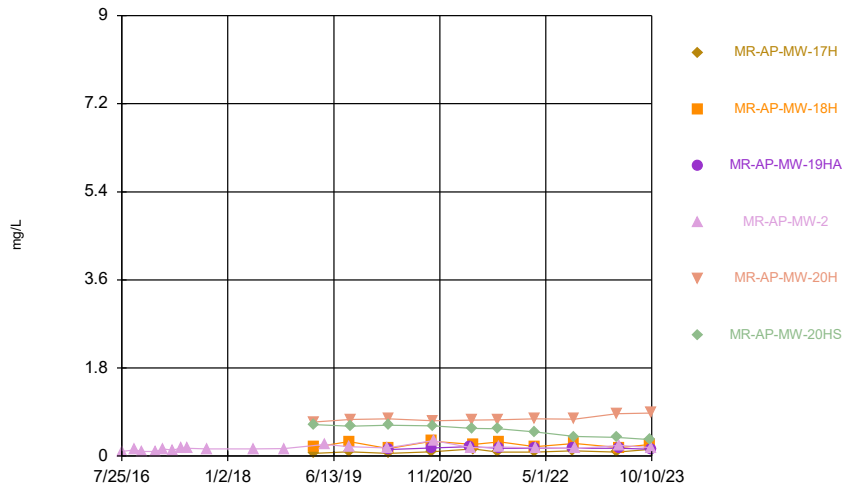
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Time Series



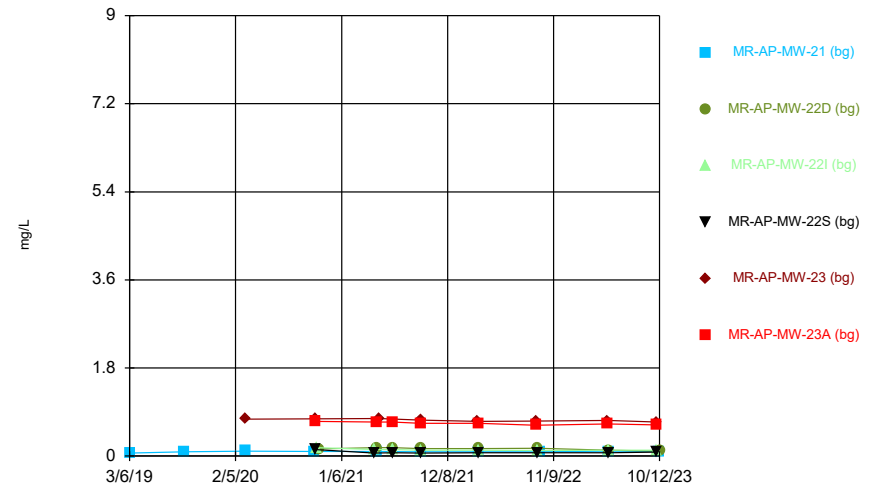
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Time Series



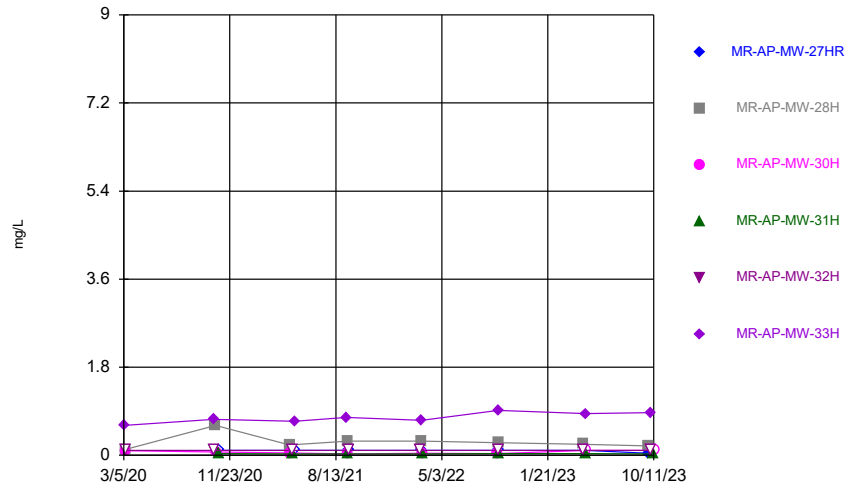
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Time Series



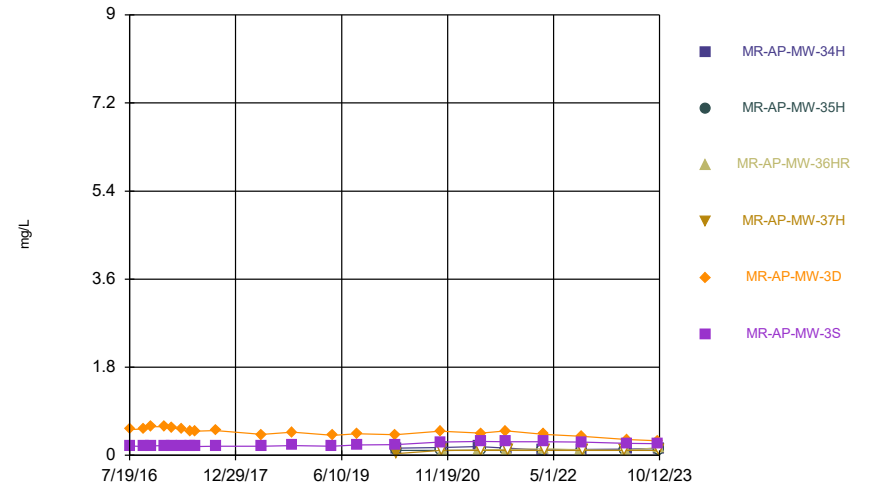
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Time Series



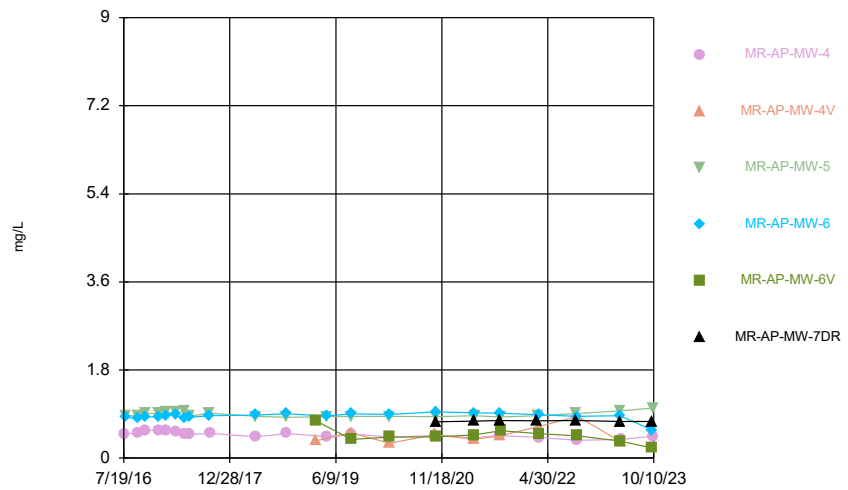
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Time Series



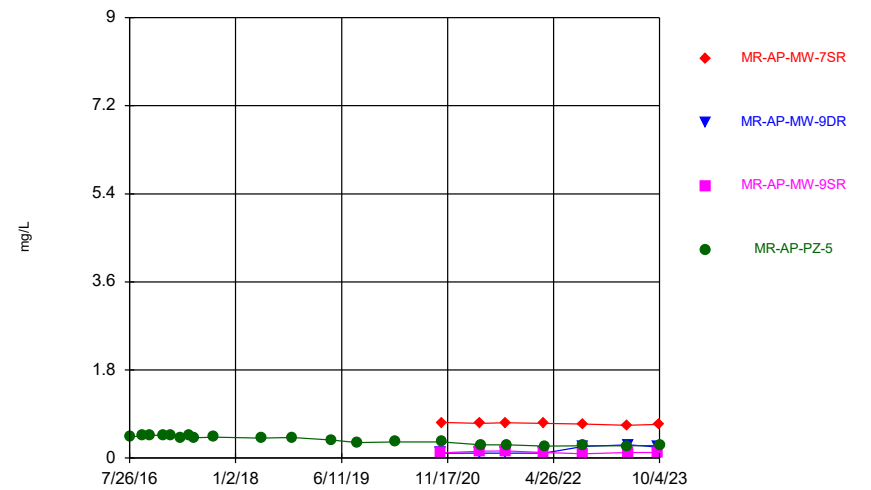
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Time Series



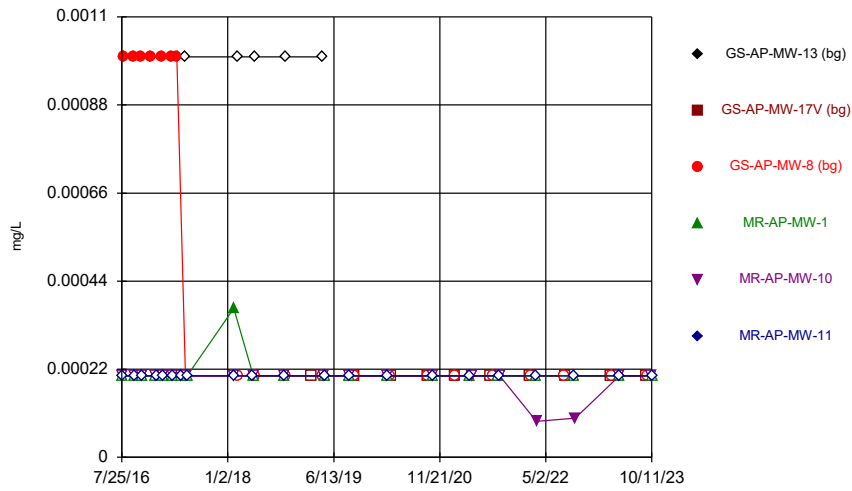
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Plant Miller Data: Miller Ash Pond

Time Series



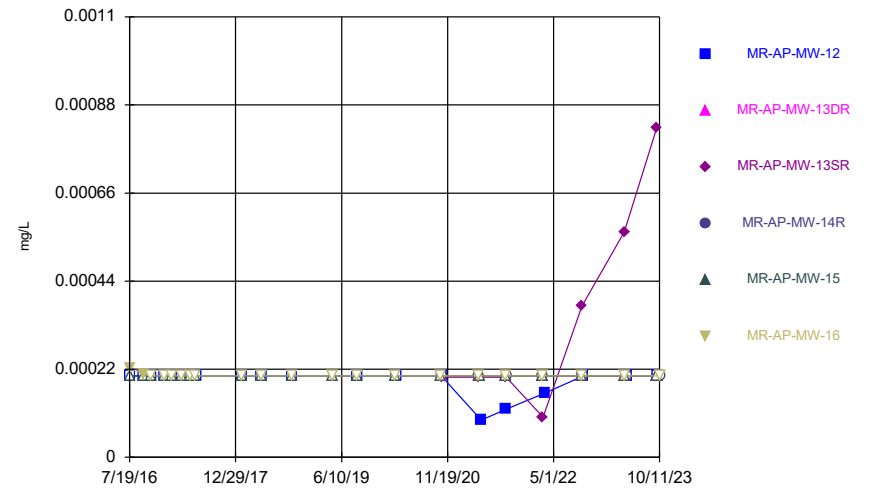
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Time Series



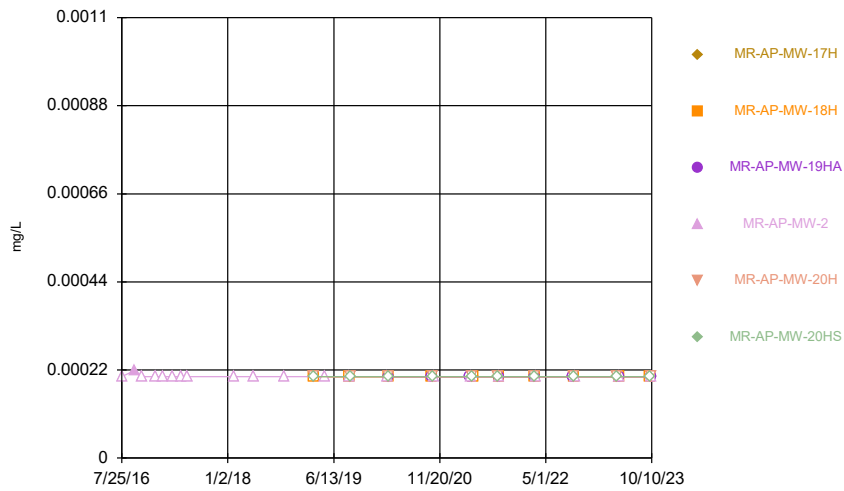
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Time Series



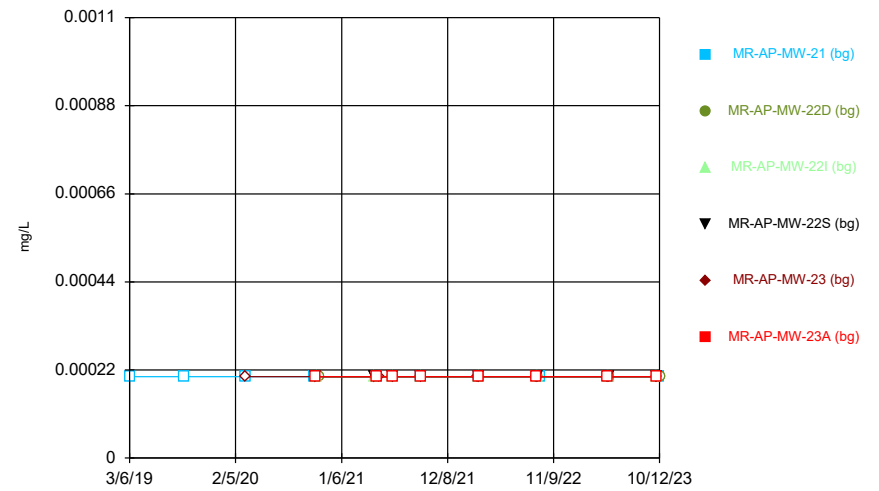
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Time Series



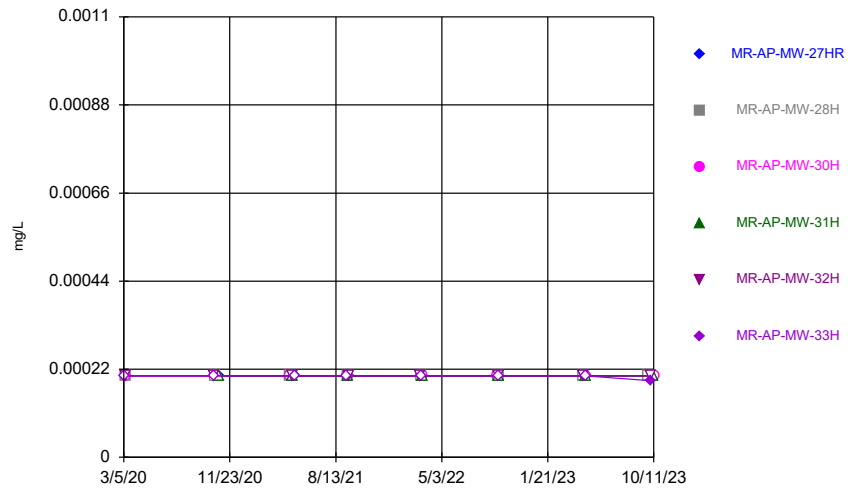
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Time Series



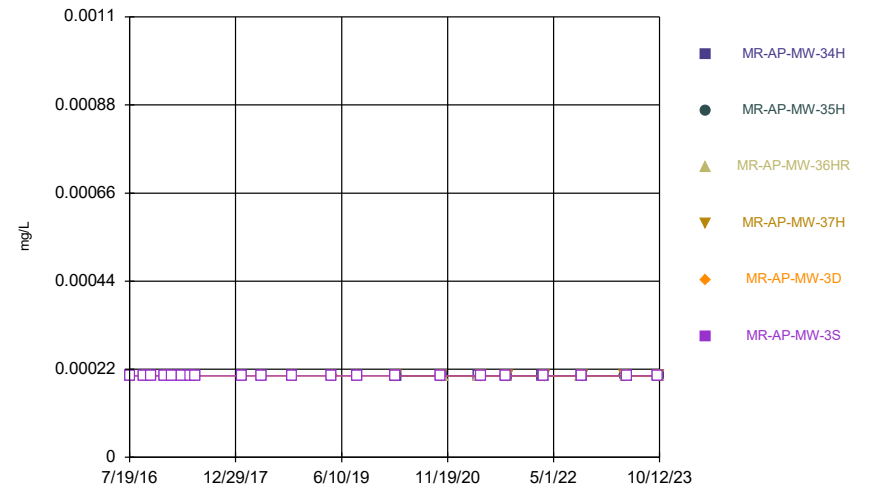
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Time Series



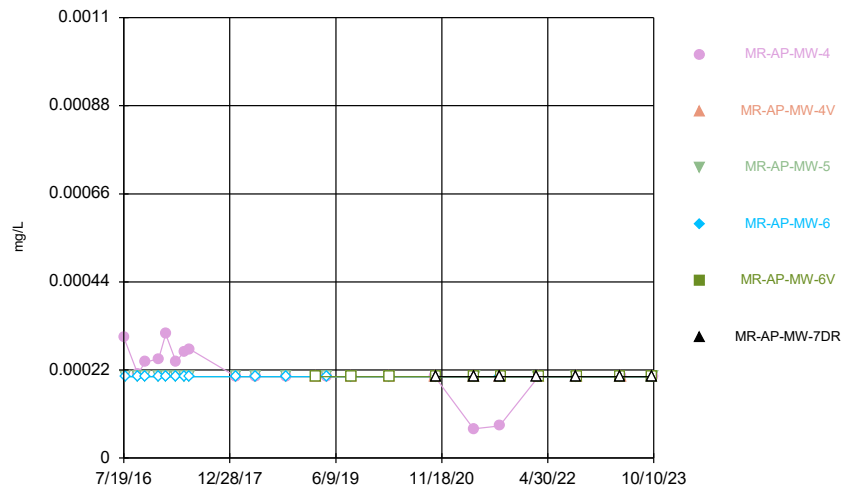
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Time Series



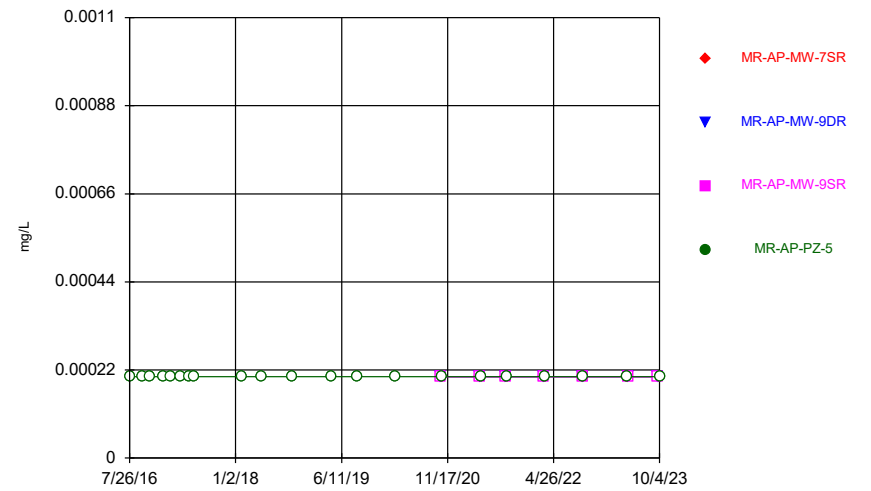
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Time Series



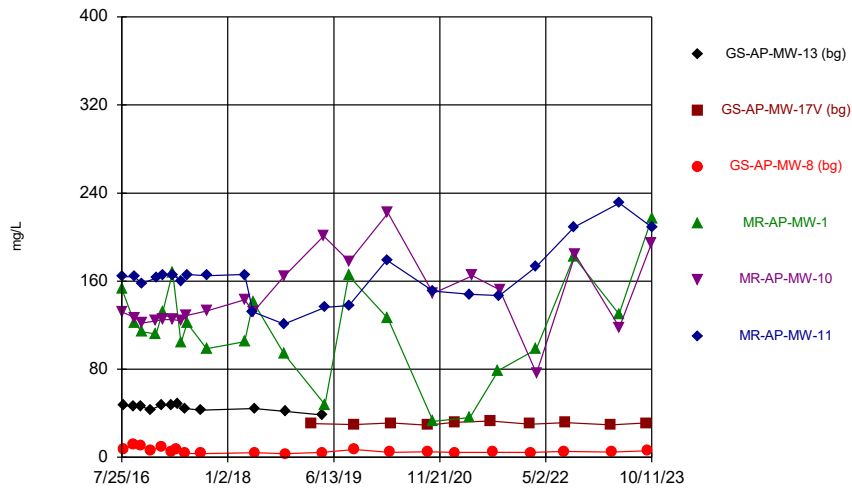
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Time Series



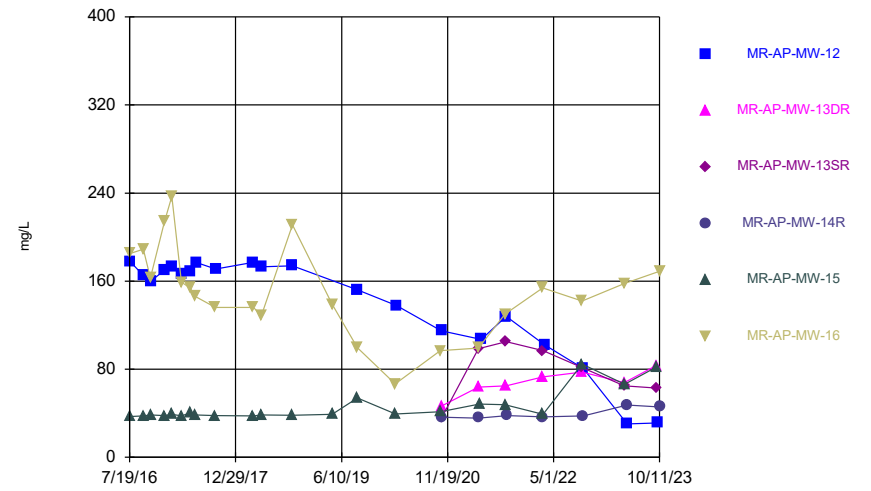
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Time Series



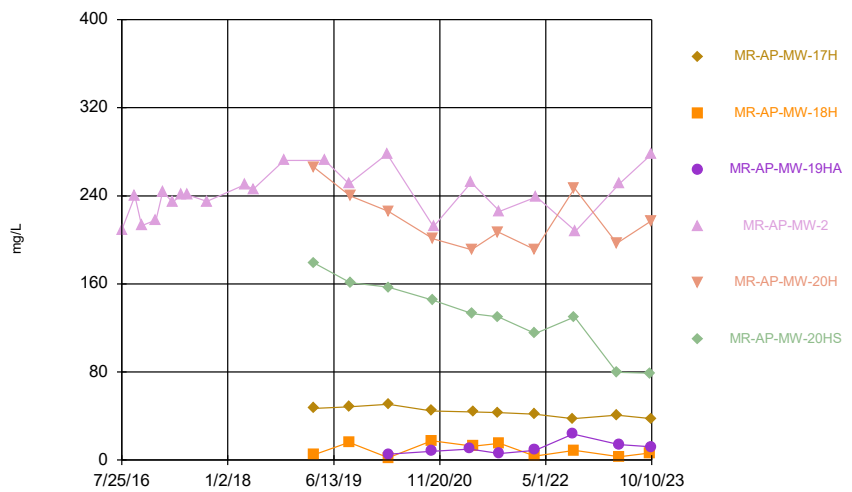
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Time Series



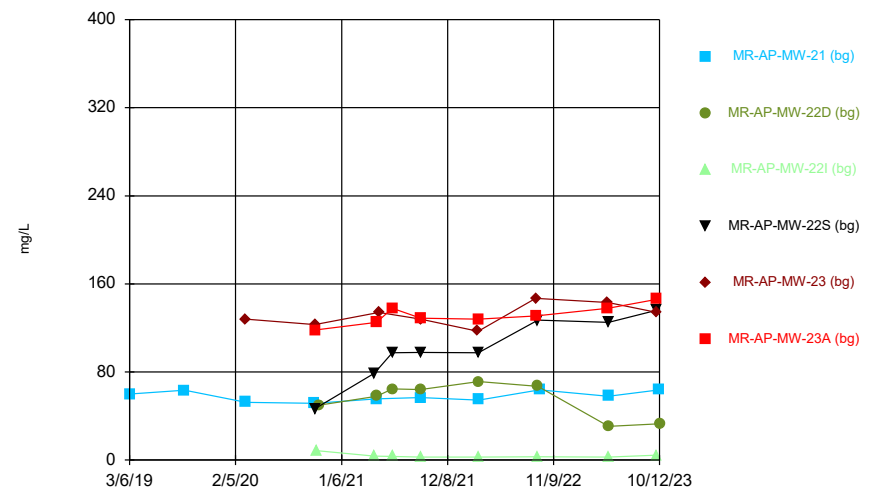
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Time Series



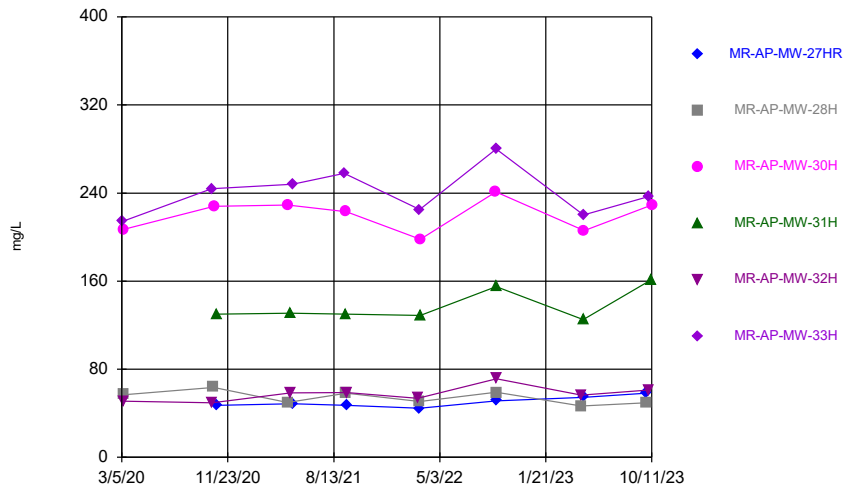
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Time Series



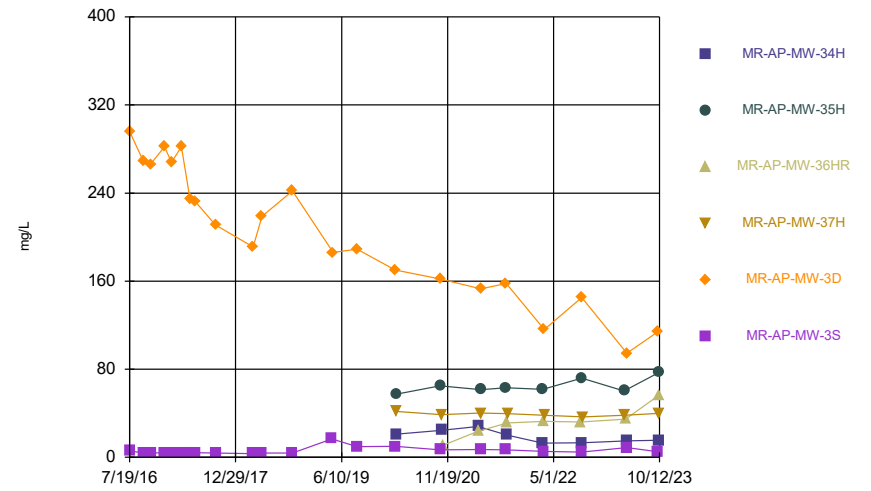
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Time Series



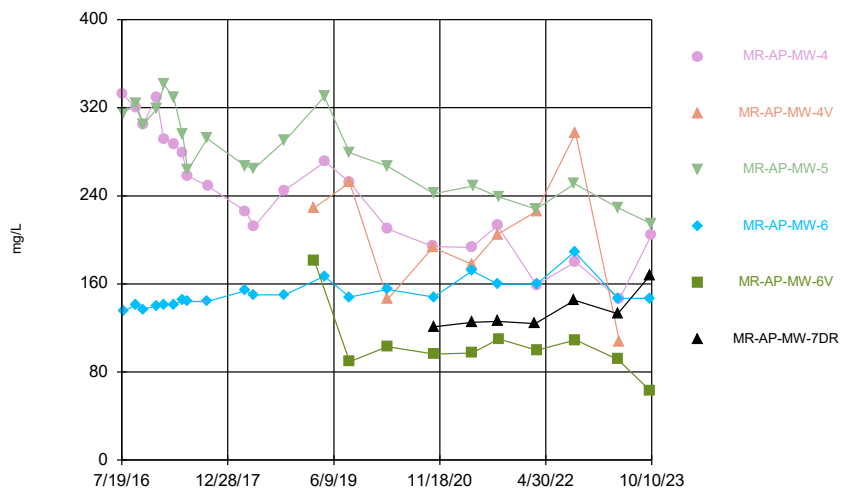
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Time Series



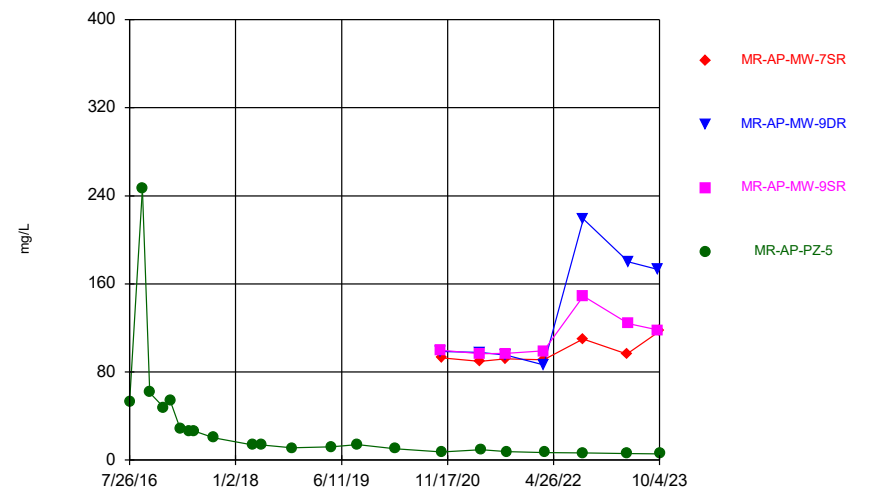
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Time Series



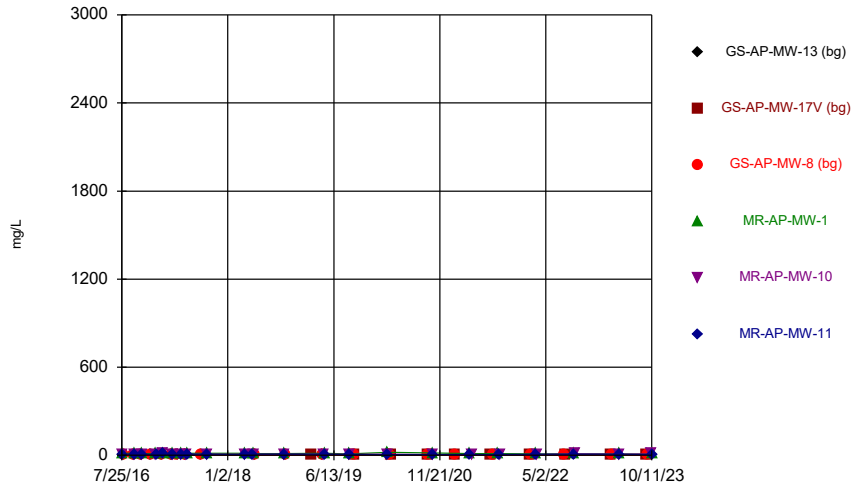
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Time Series



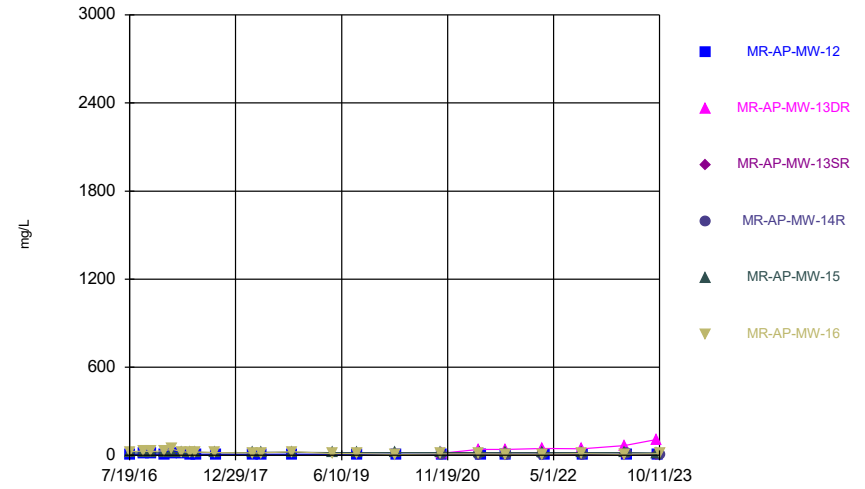
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Time Series



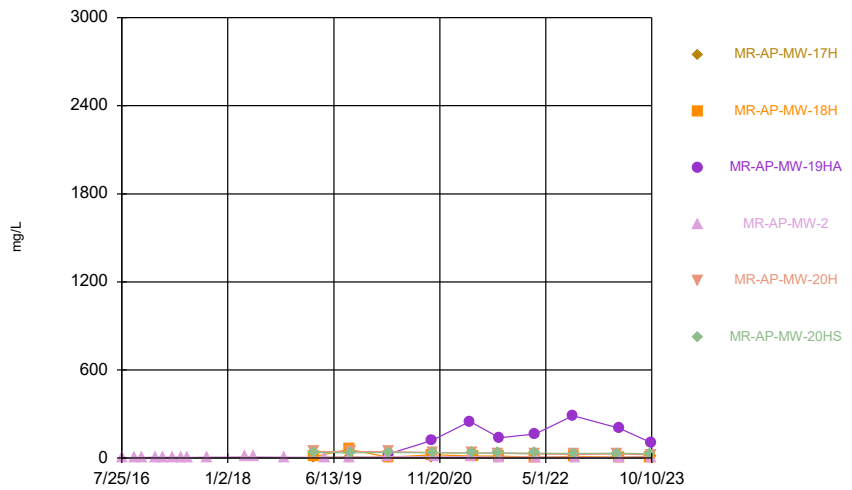
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Time Series



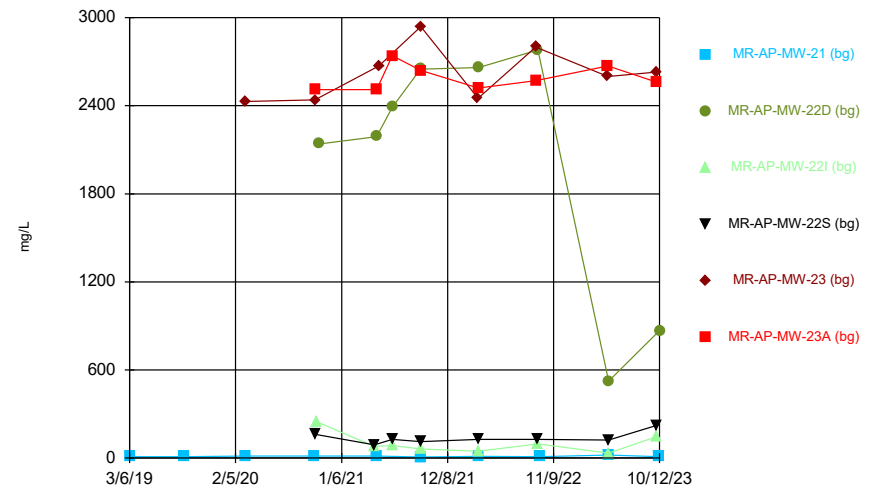
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Time Series



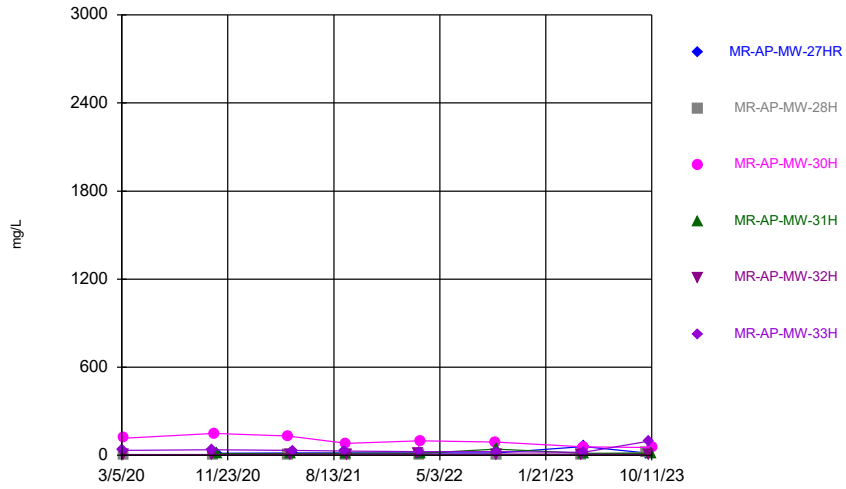
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Time Series



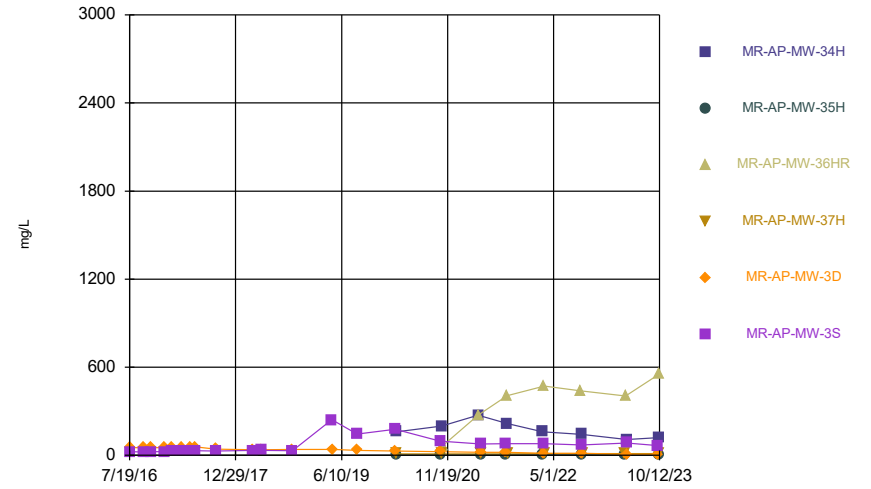
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Time Series



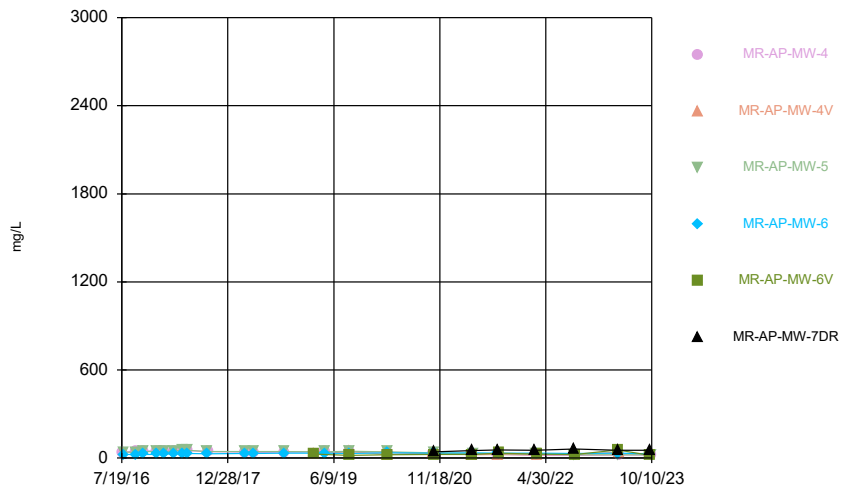
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Time Series



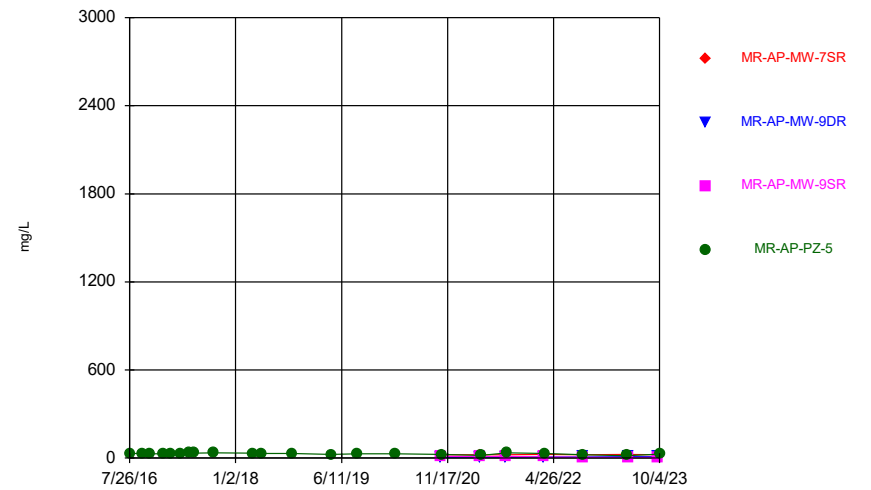
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Time Series



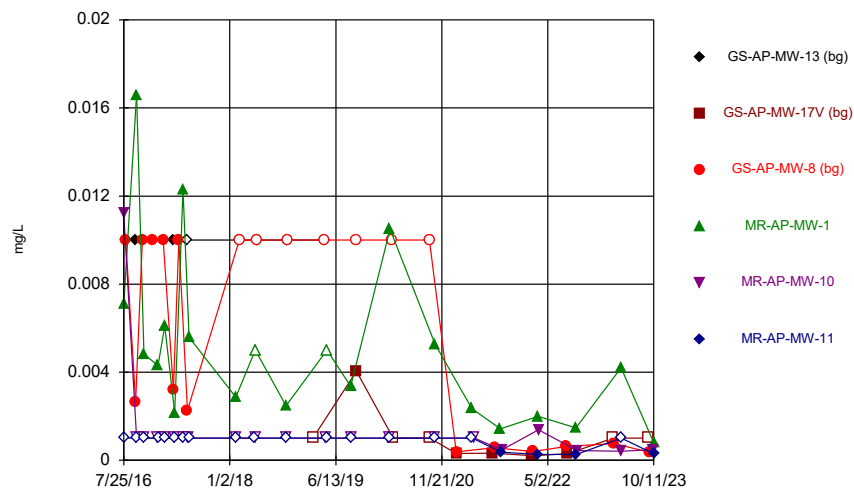
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Time Series



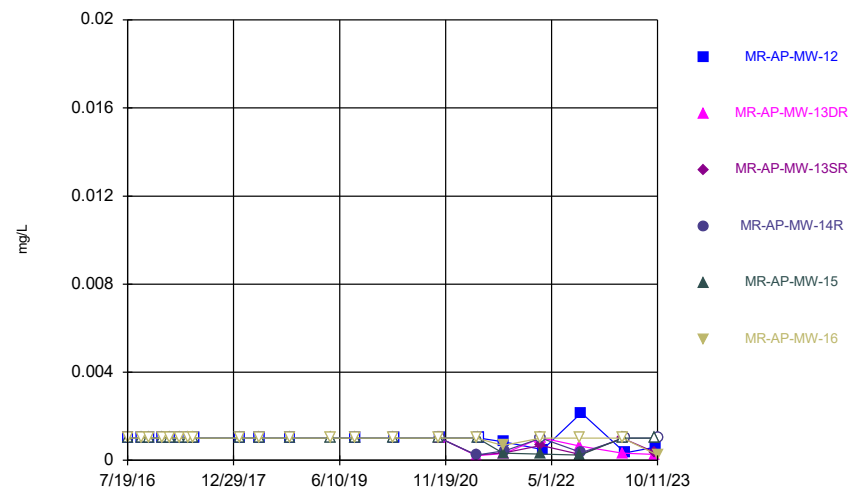
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Plant Miller Data: Miller Ash Pond

Time Series



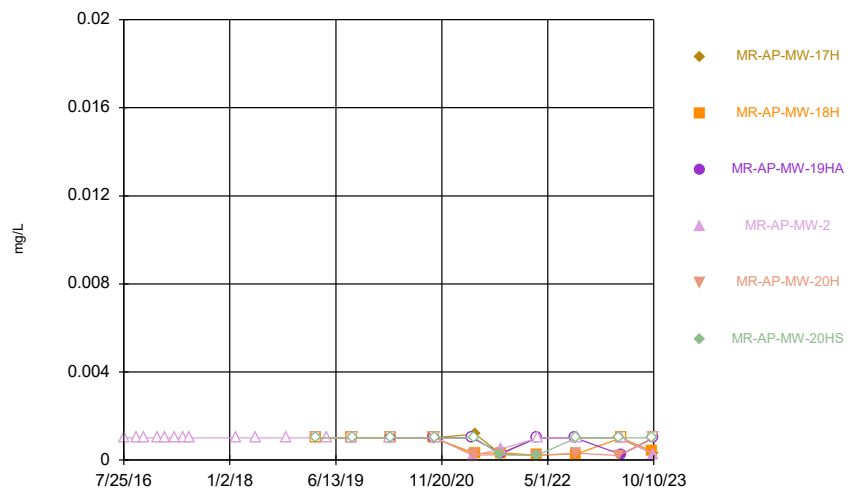
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Time Series



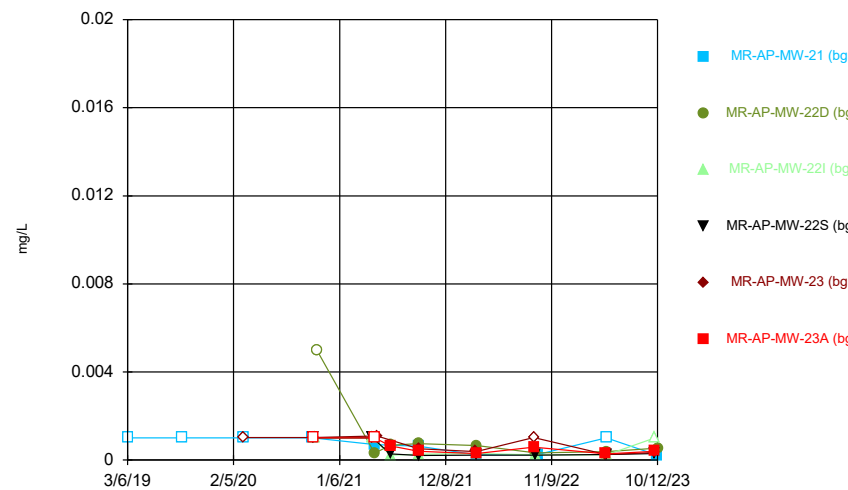
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Time Series



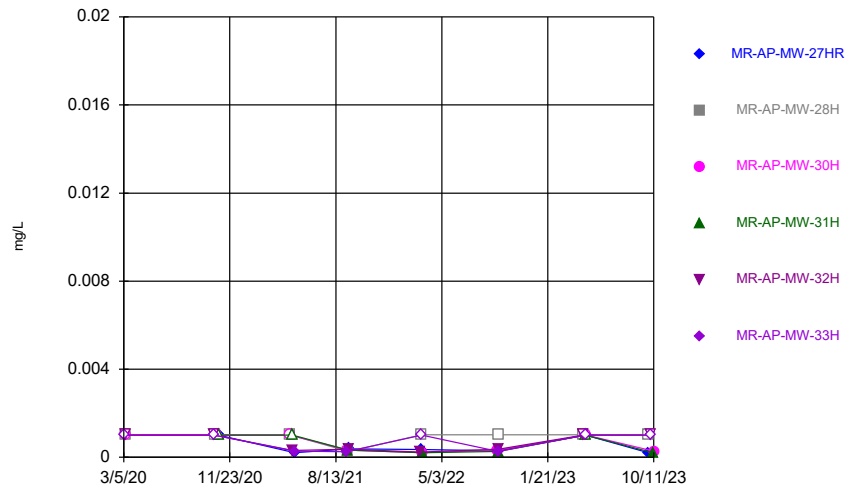
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Time Series



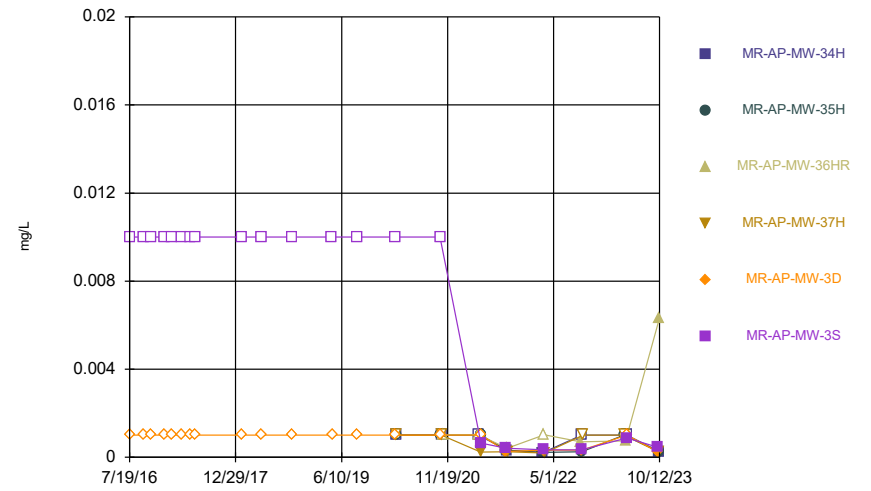
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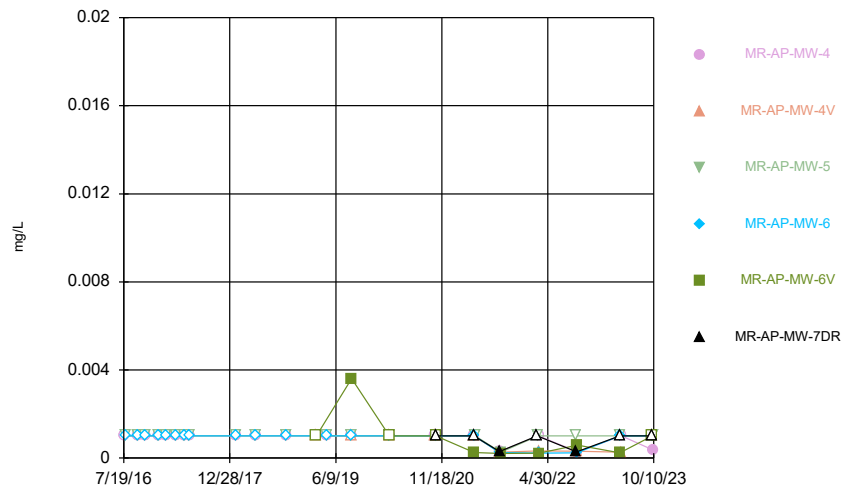
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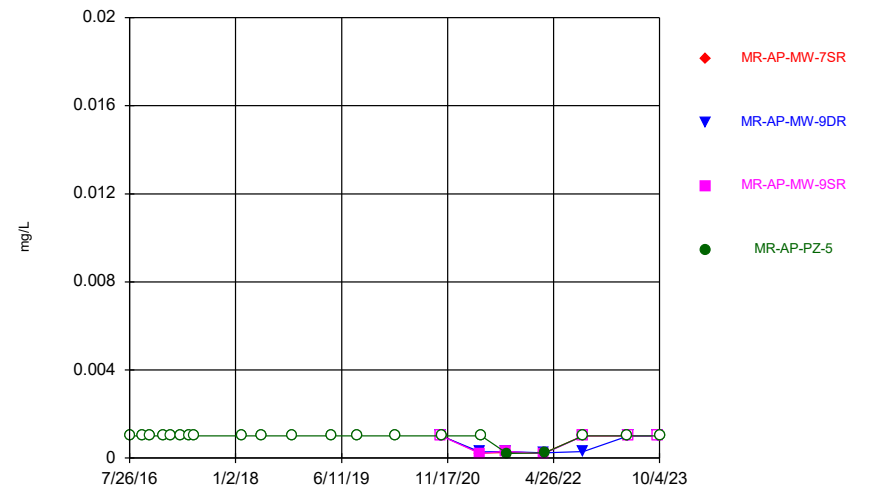
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Time Series



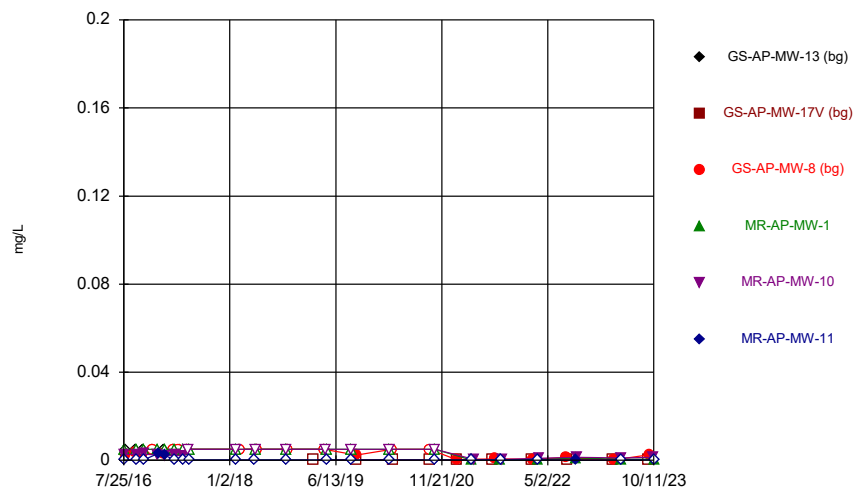
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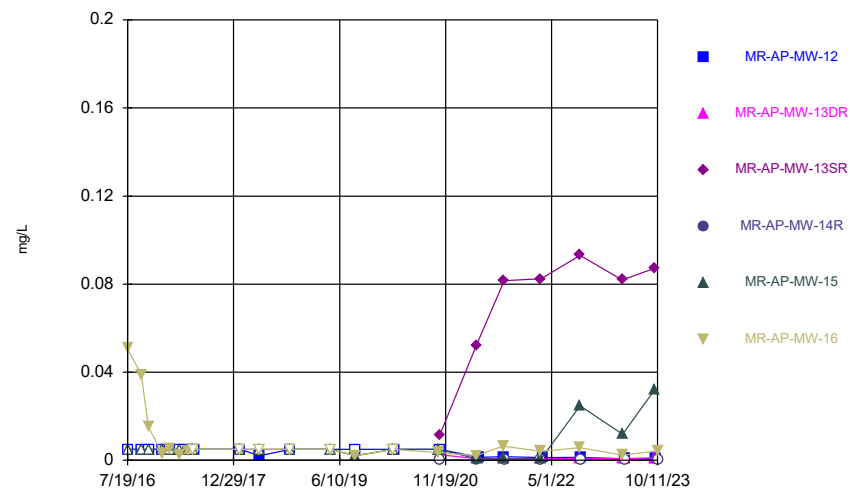


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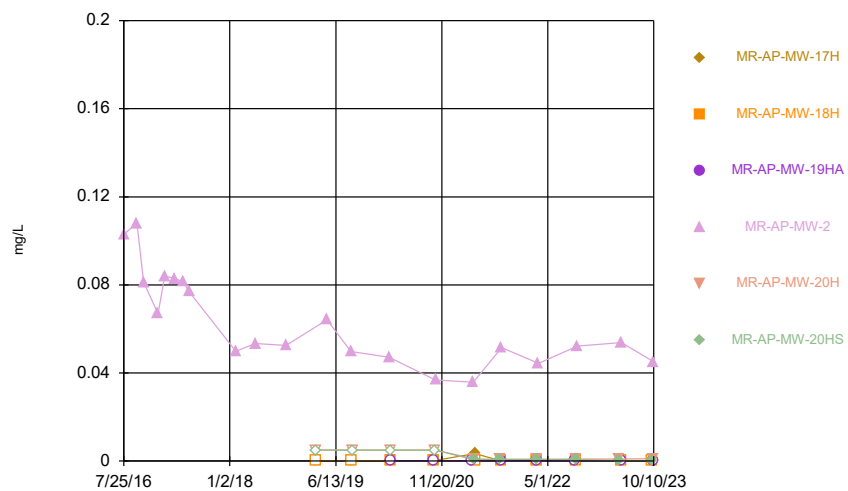
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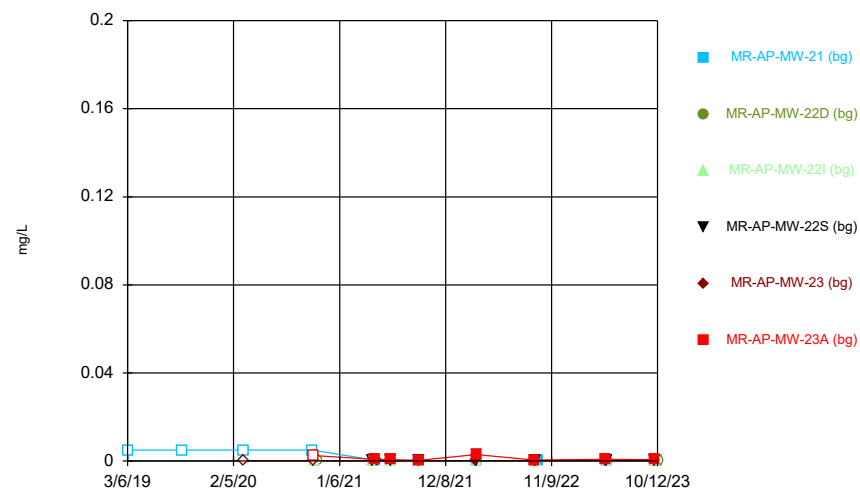
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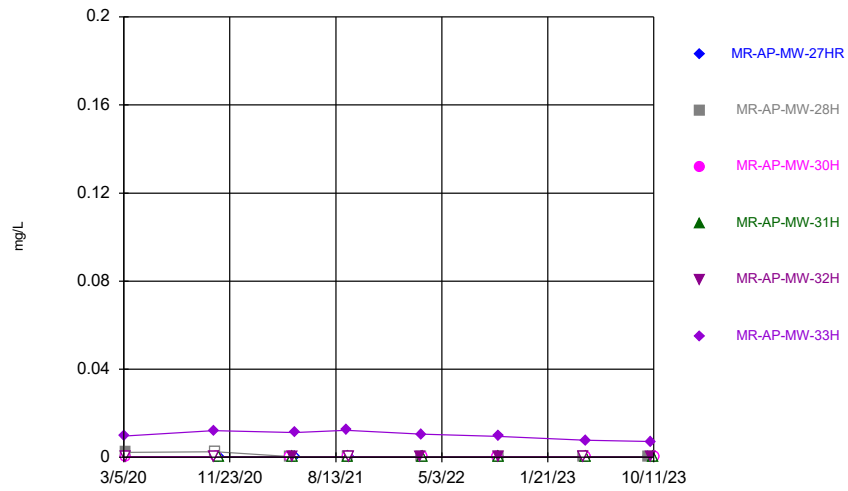
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Time Series

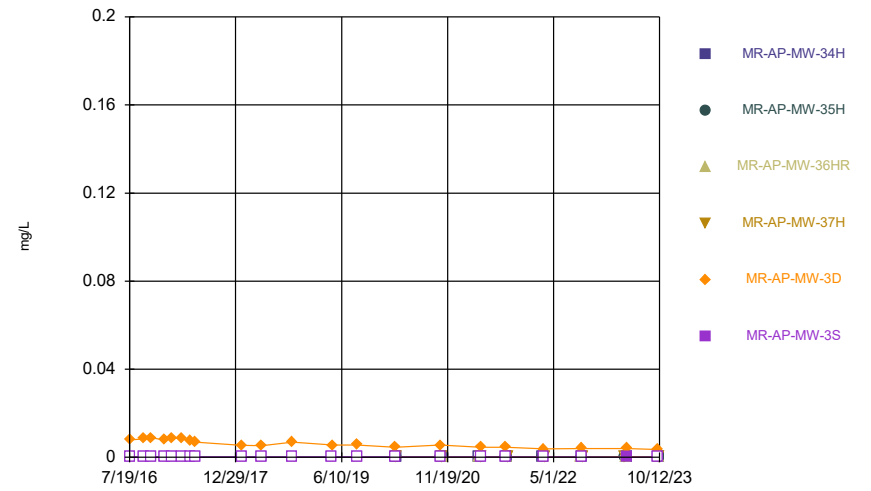


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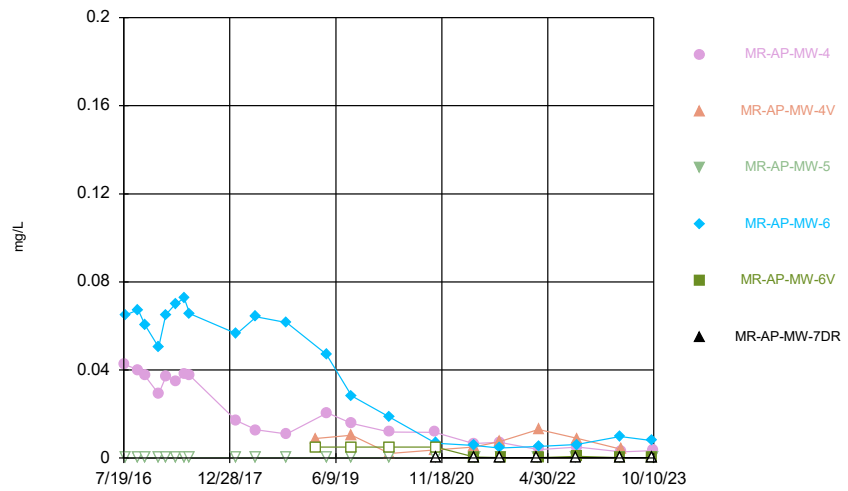
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Plant Miller Data: Miller Ash Pond

Time Series



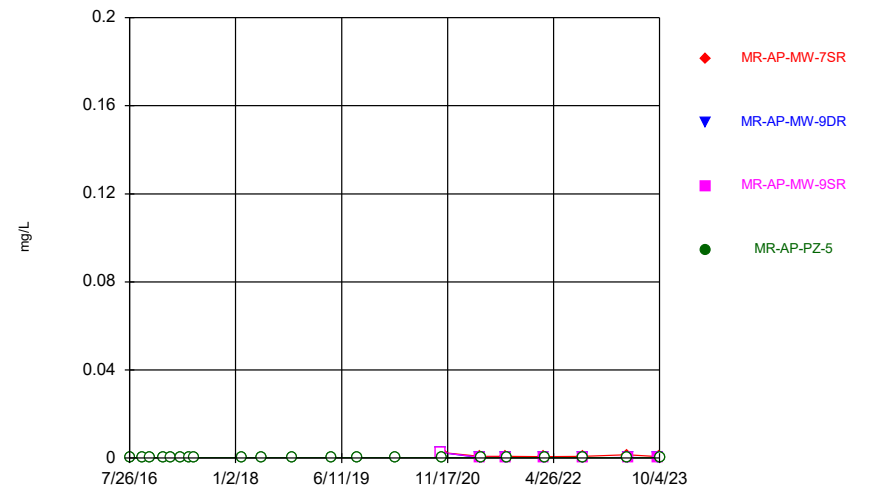
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Plant Miller Data: Miller Ash Pond

Time Series



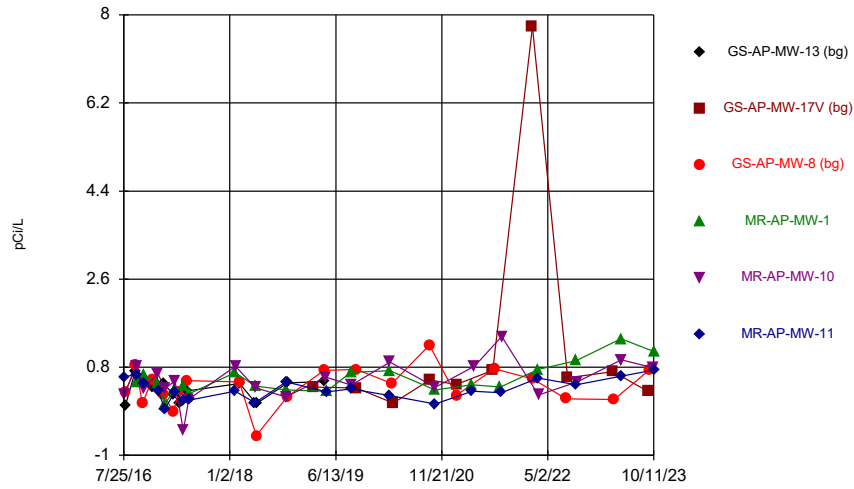
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Time Series



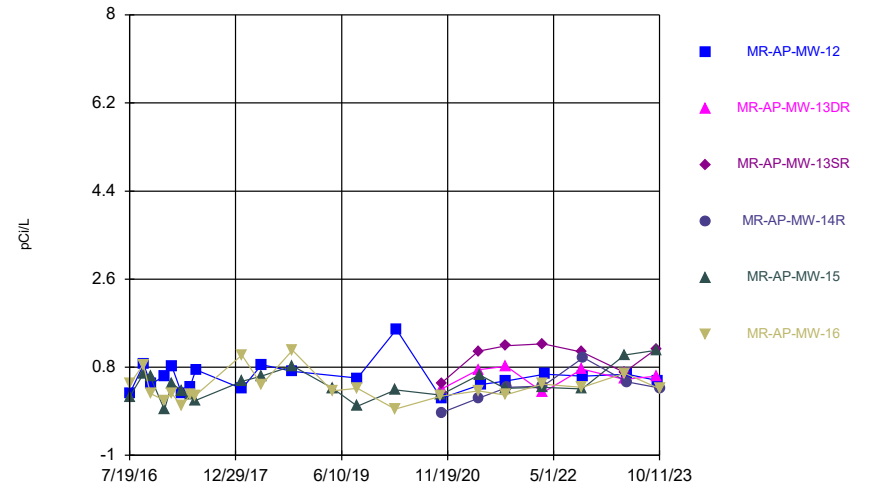
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Time Series



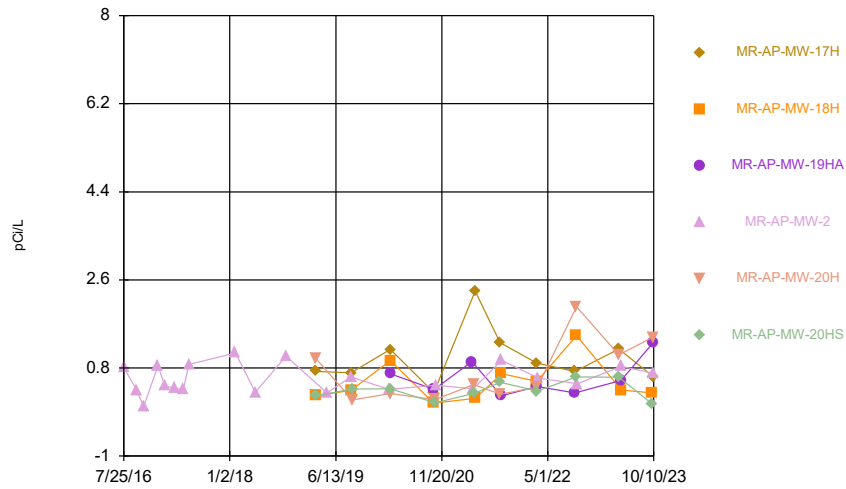
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Plant Miller Data: Miller Ash Pond

Time Series



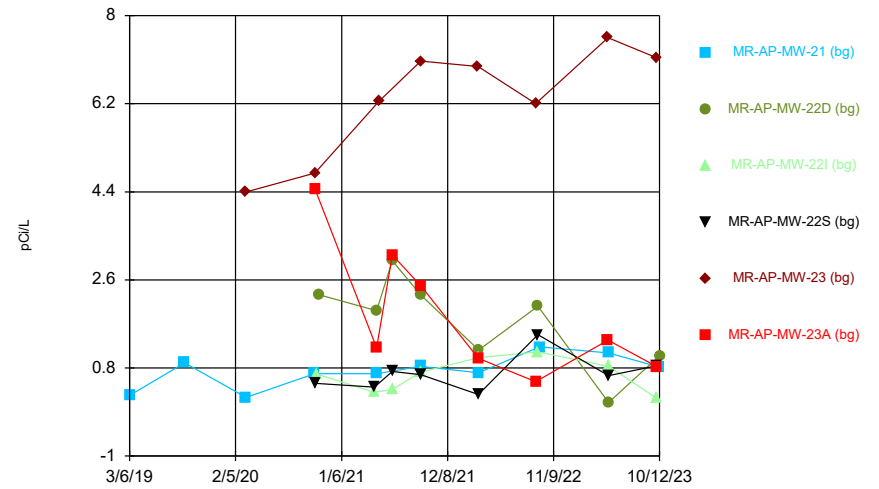
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Time Series



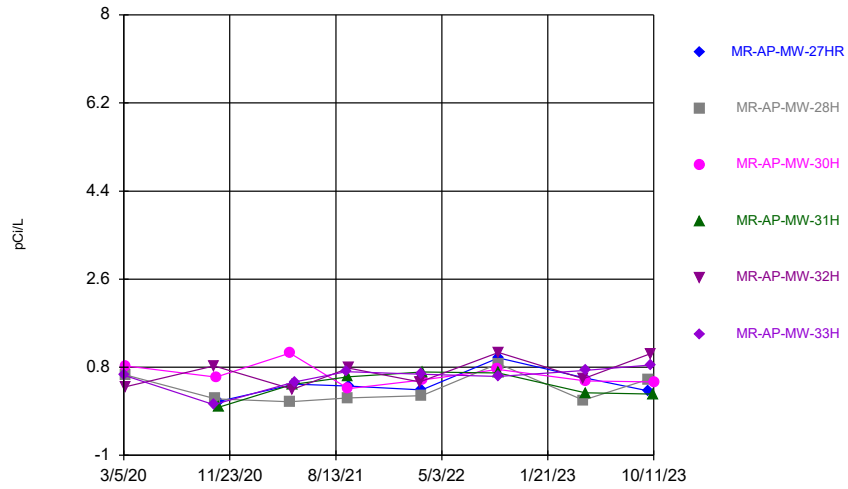
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Time Series



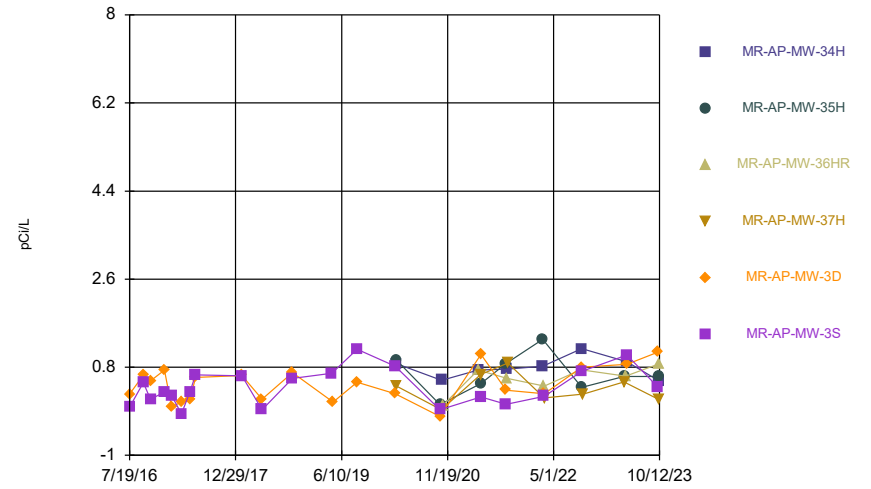
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Plant Miller Data: Miller Ash Pond

Time Series



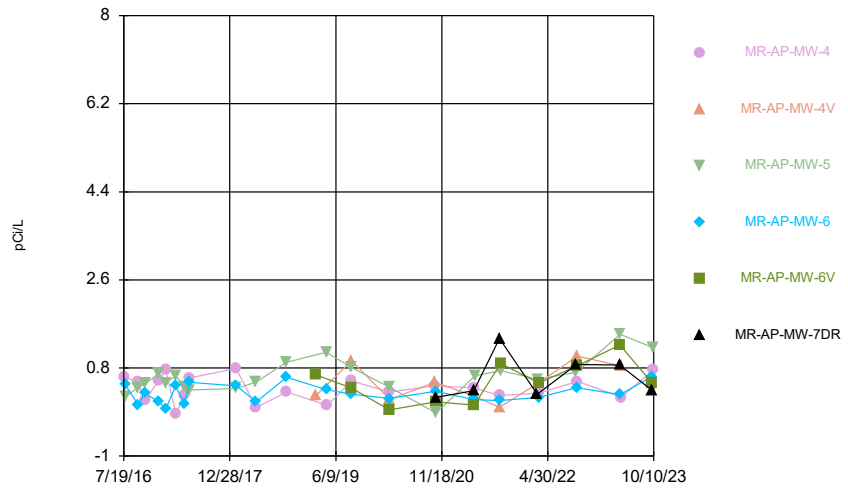
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Time Series



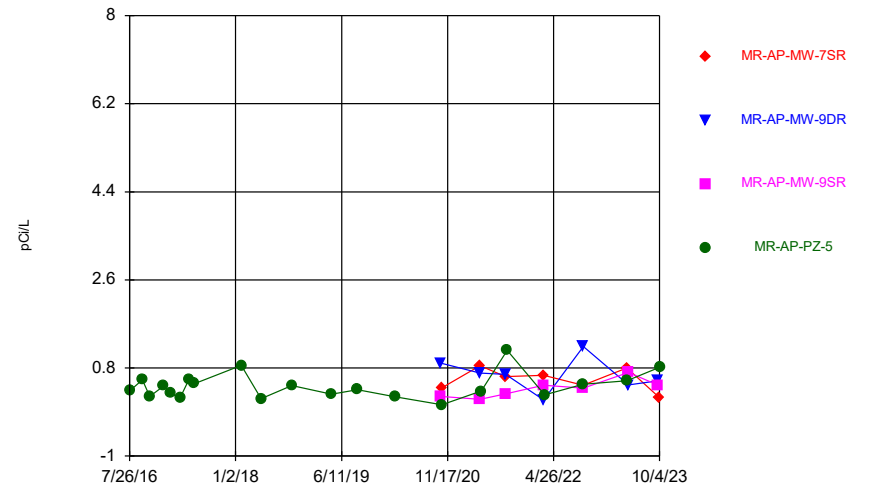
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Time Series



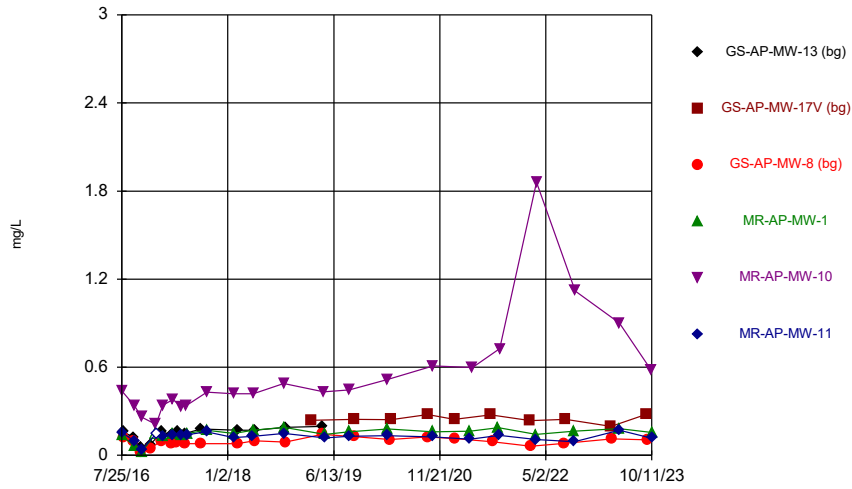
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Time Series

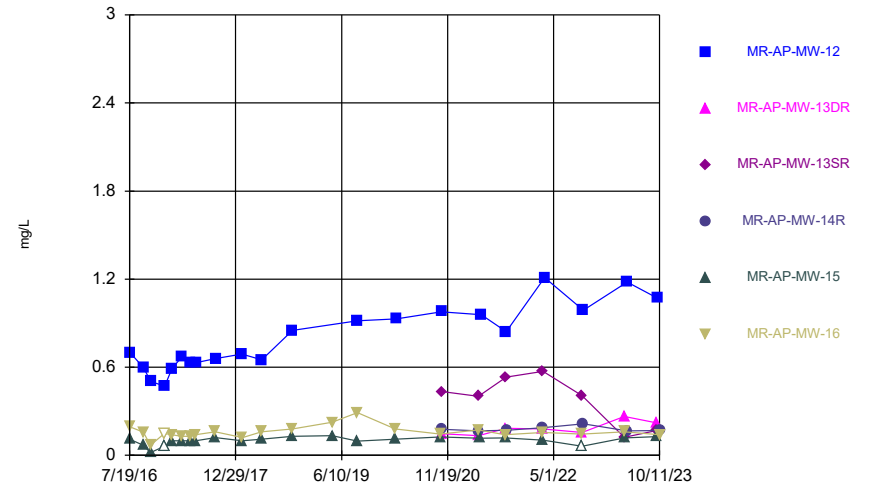


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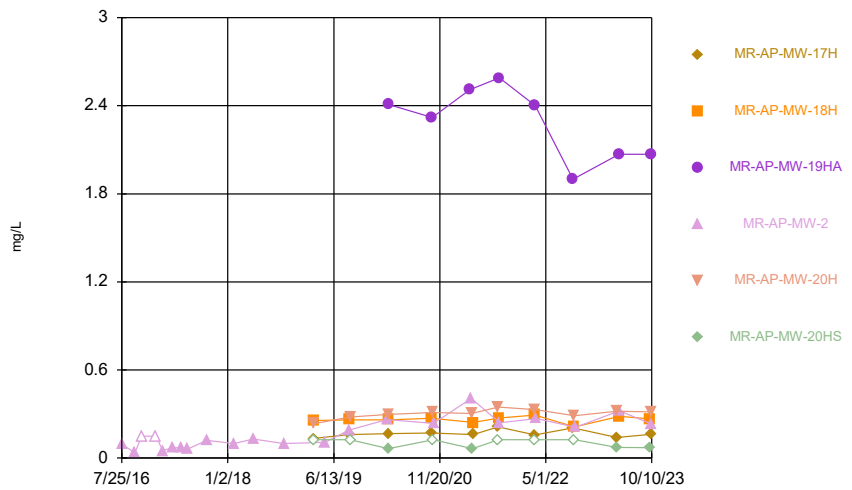
Time Series



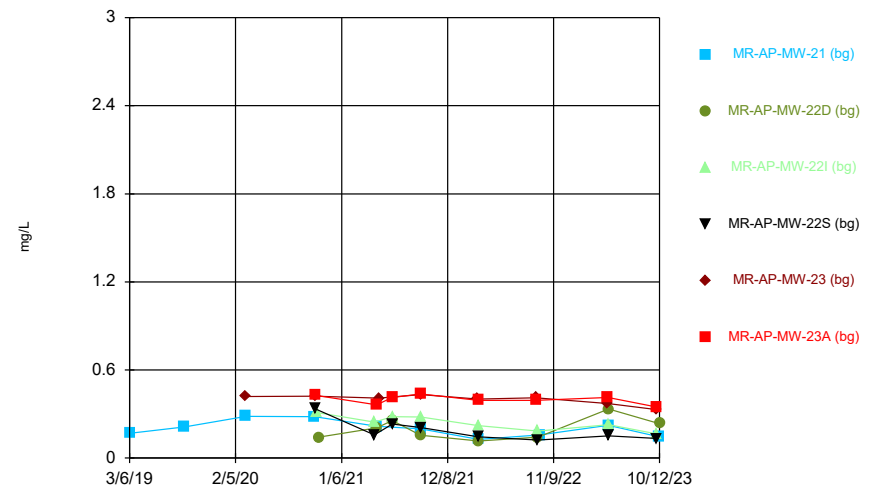
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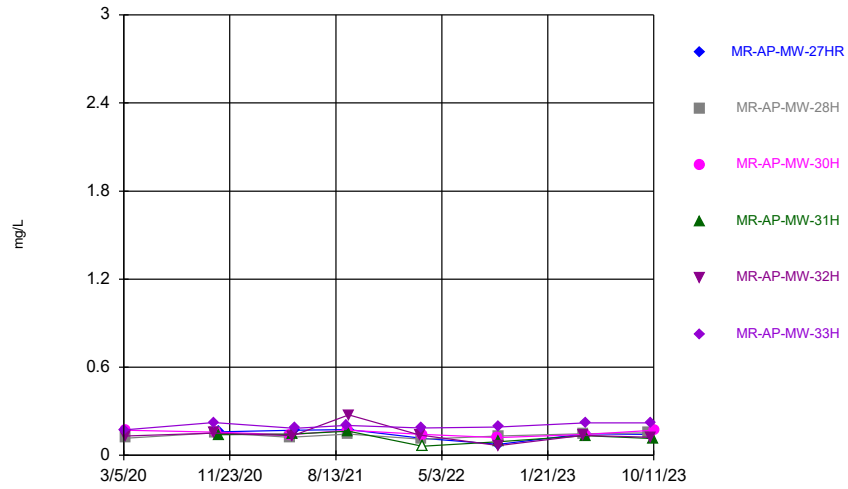
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Time Series

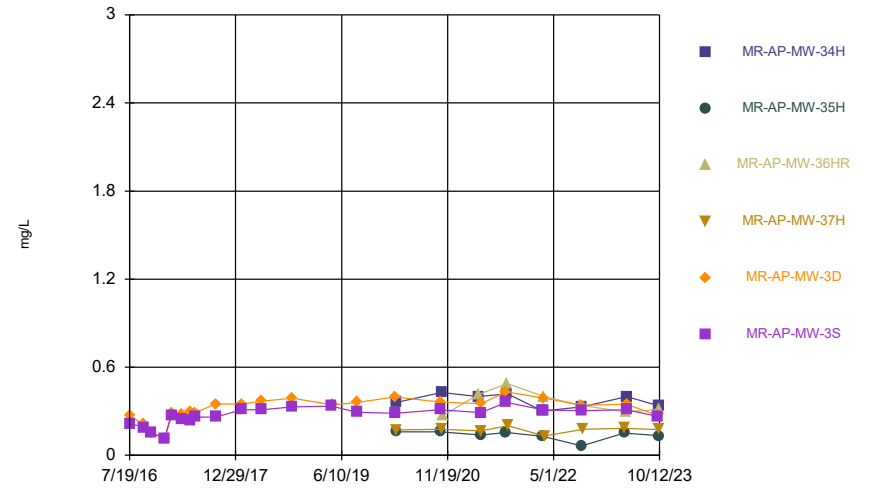


Time Series



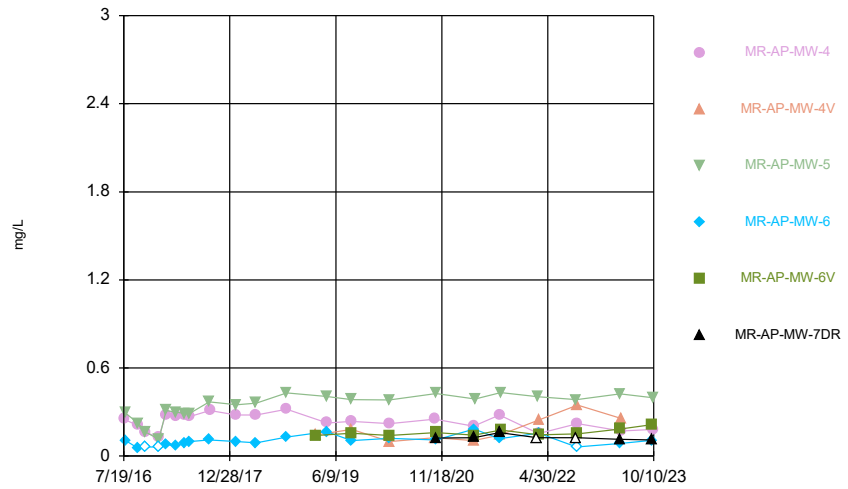
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Plant Miller Data: Miller Ash Pond

Time Series



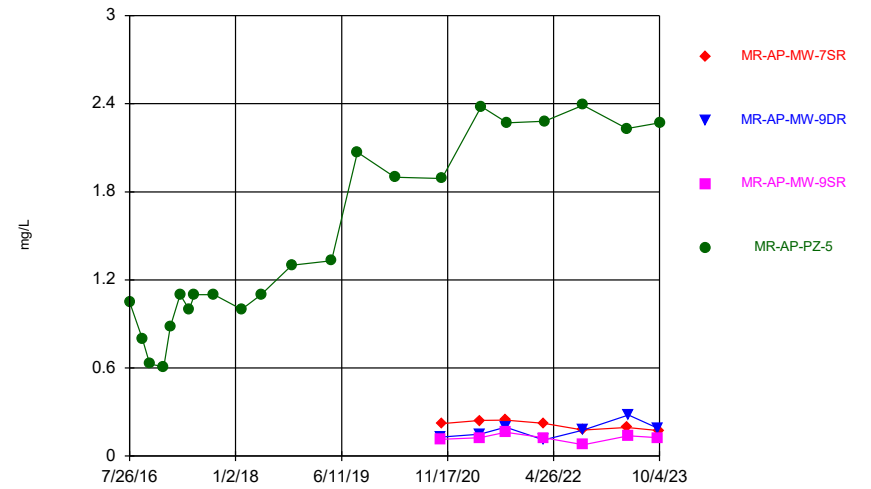
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Plant Miller Data: Miller Ash Pond

Time Series



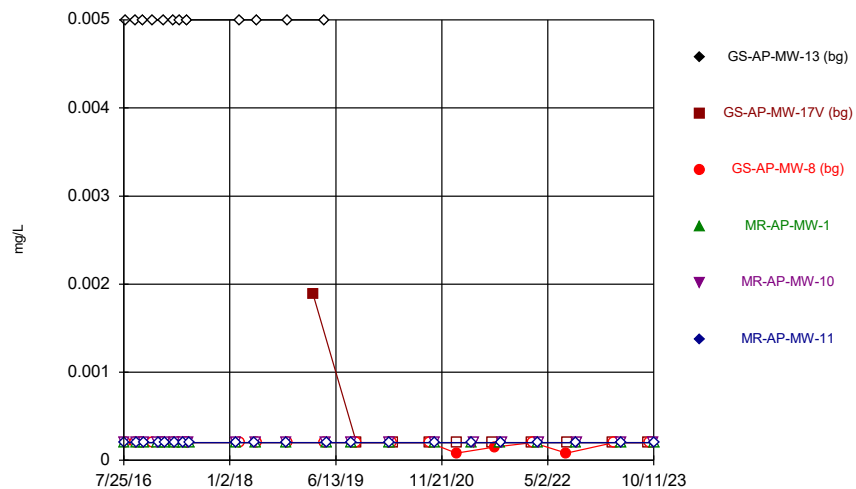
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Plant Miller Data: Miller Ash Pond

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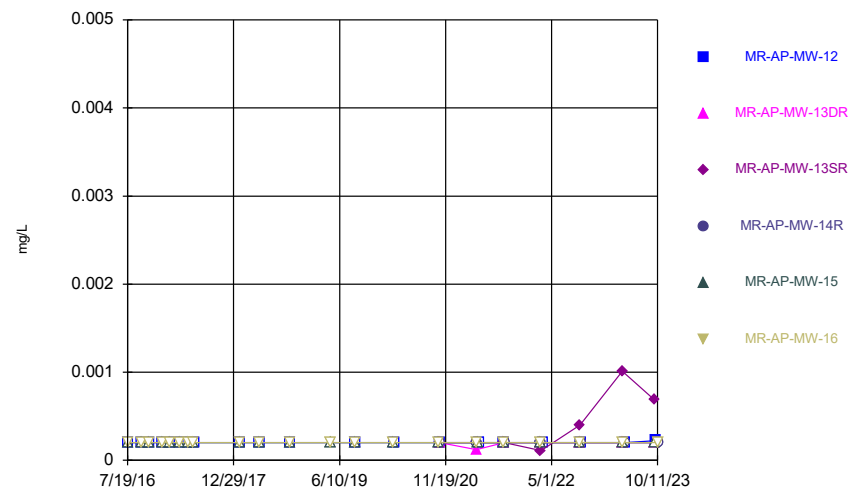
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Time Series



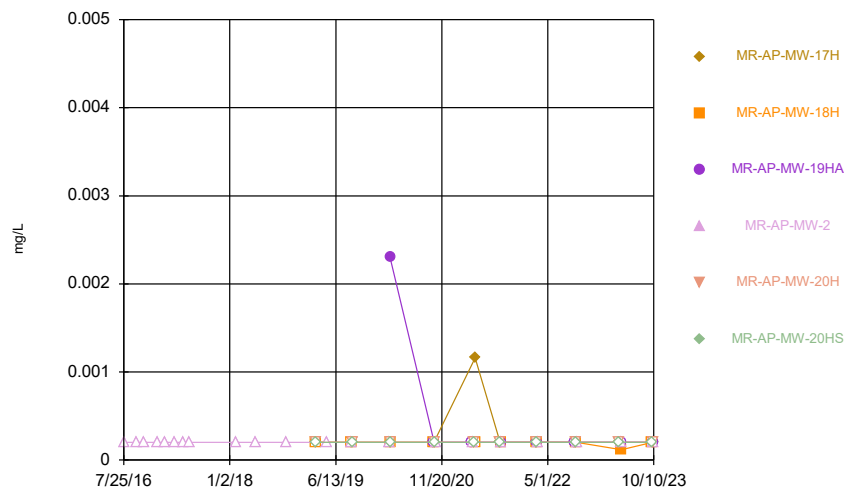
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Time Series



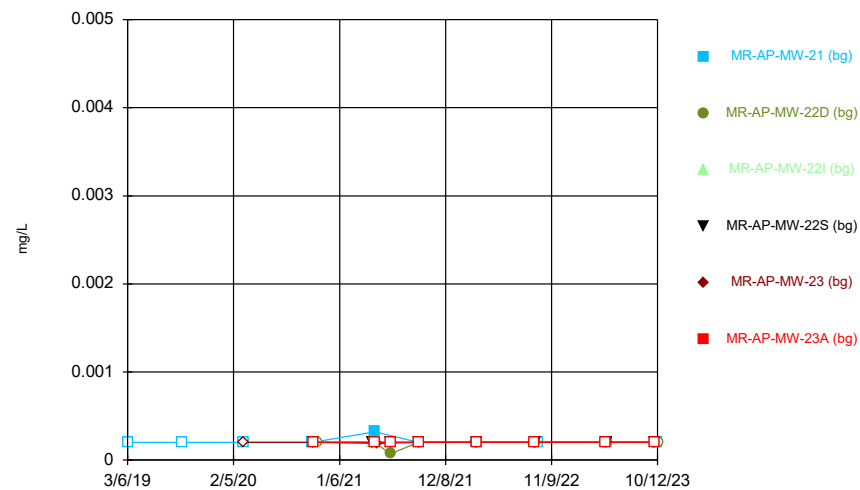
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Time Series



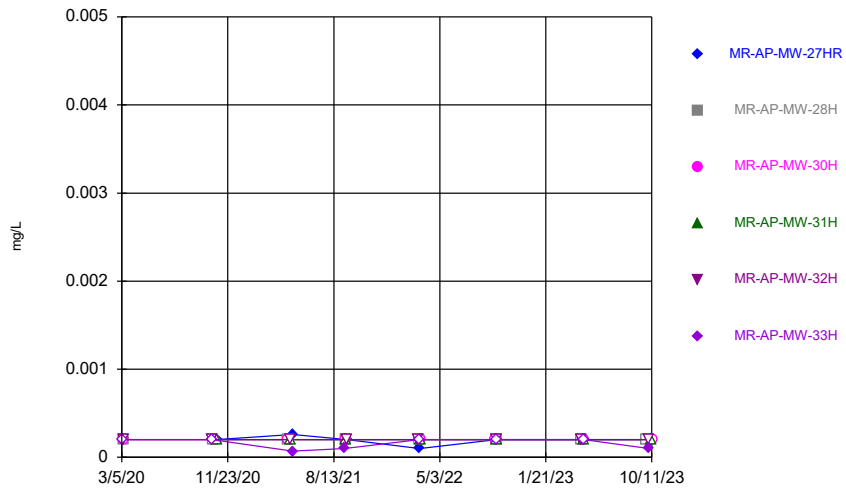
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Time Series



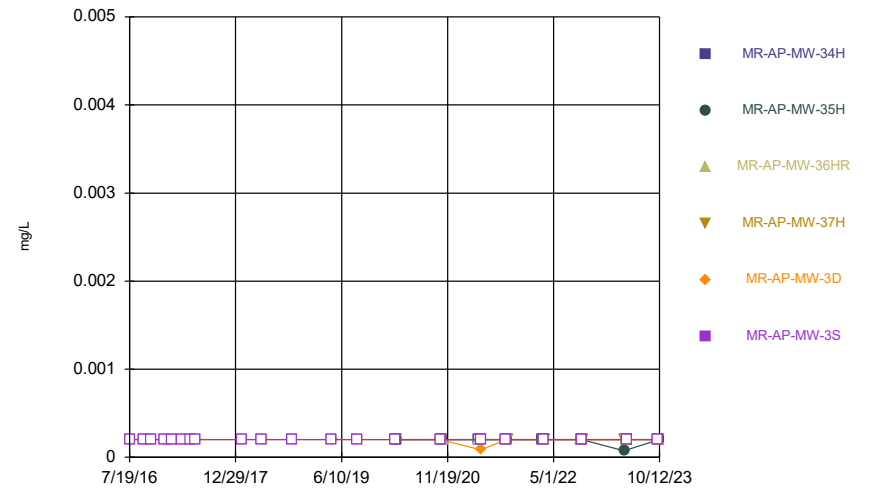
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Time Series



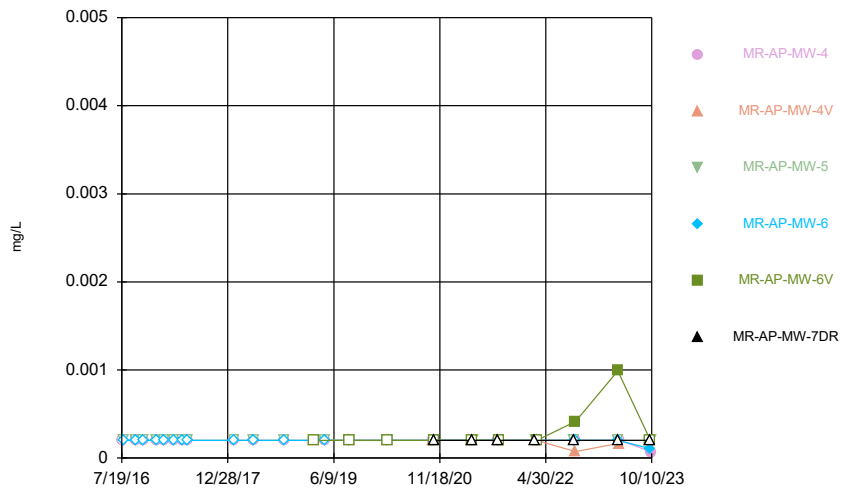
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Time Series



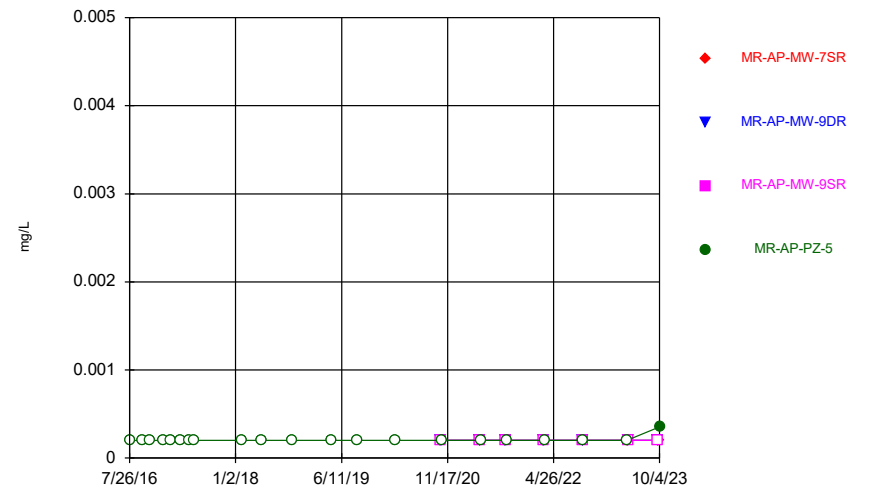
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Time Series



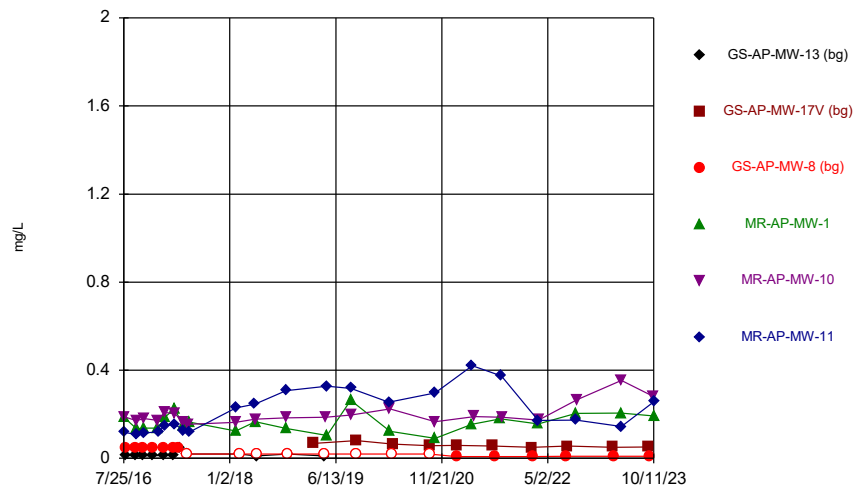
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Time Series



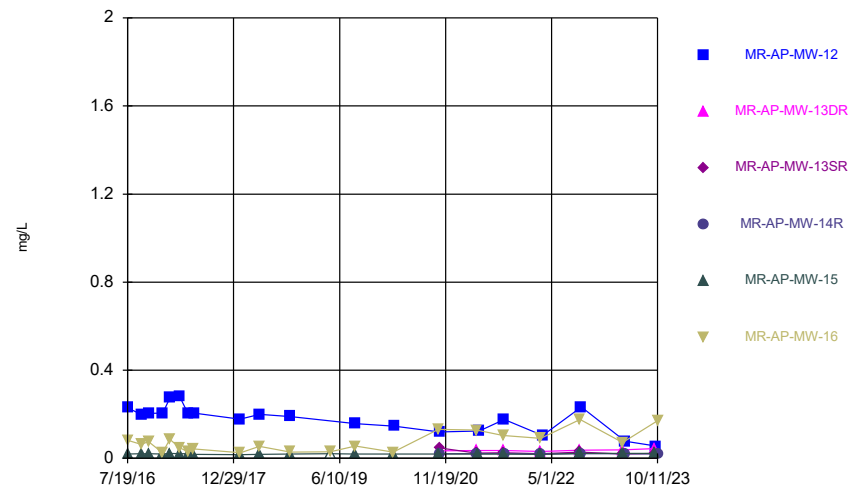
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Time Series



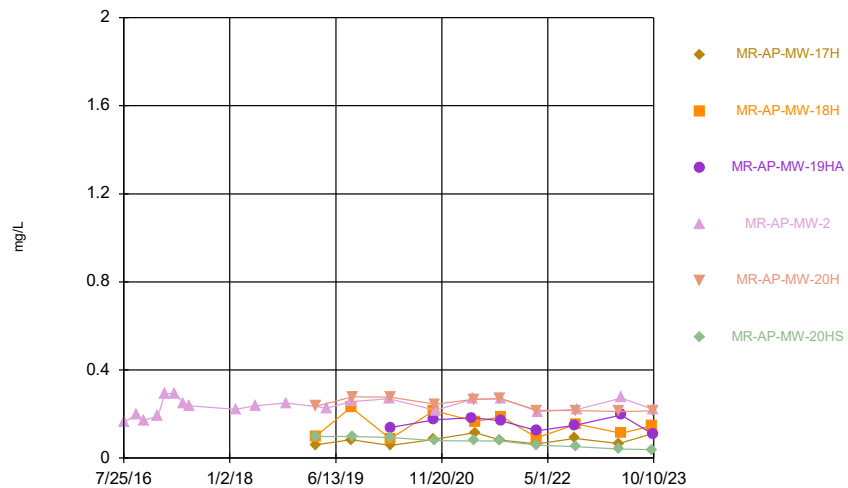
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Time Series



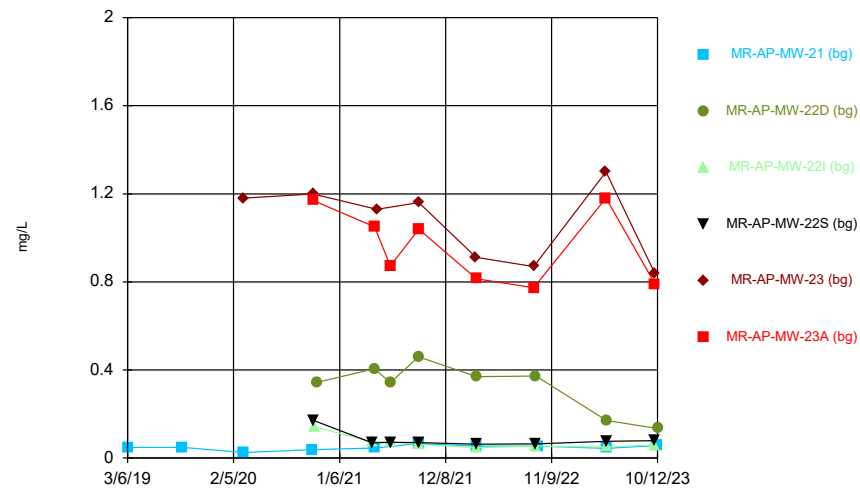
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Time Series



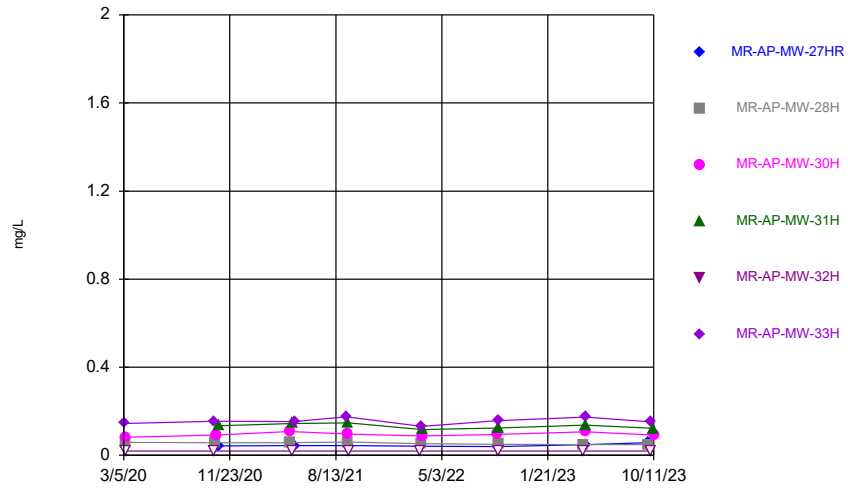
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Time Series



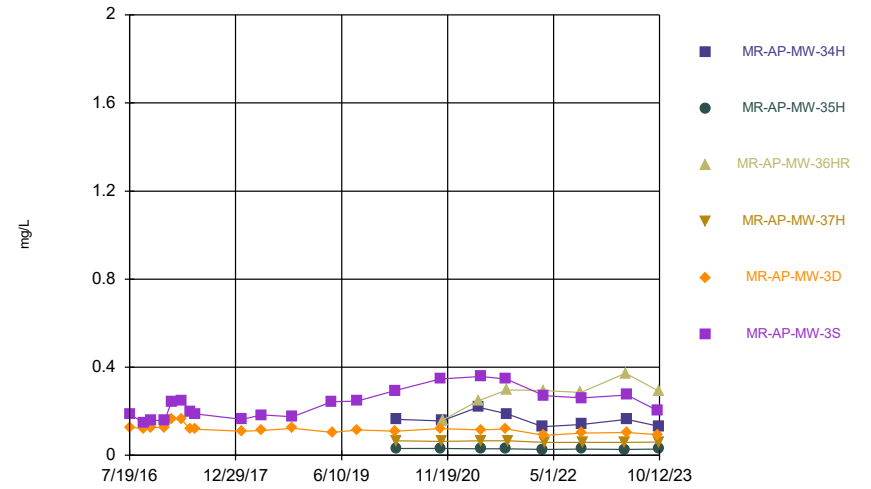
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Time Series



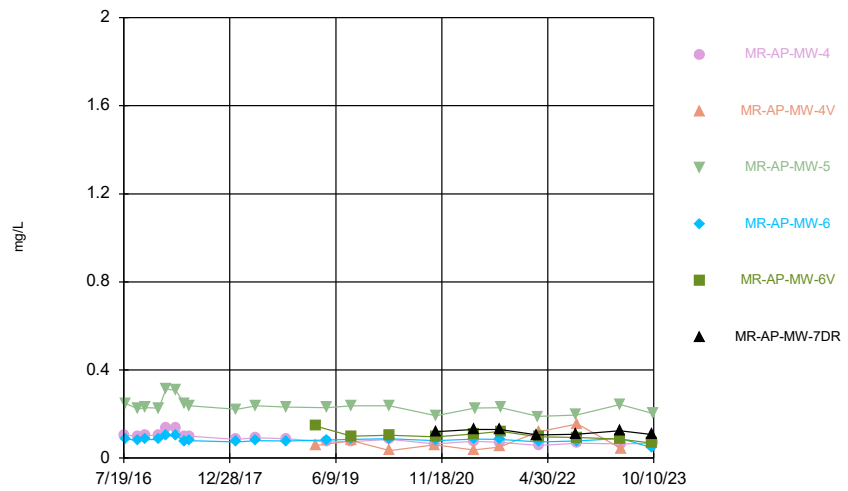
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Time Series



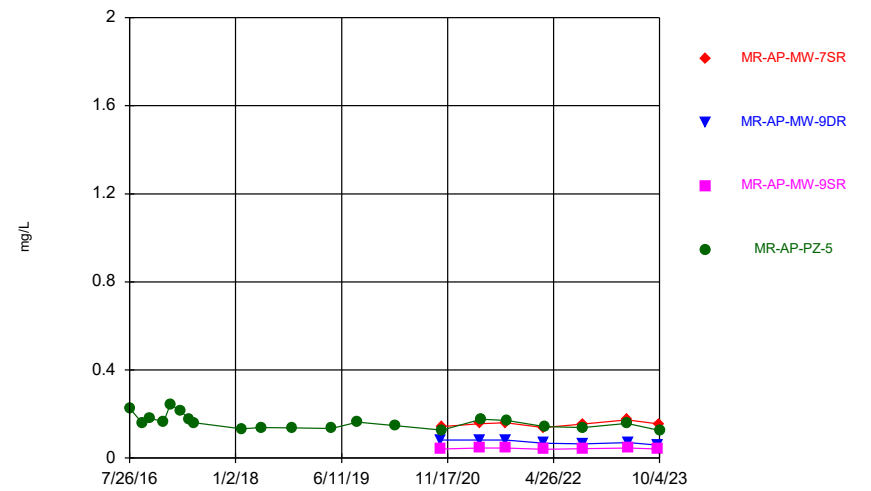
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Time Series



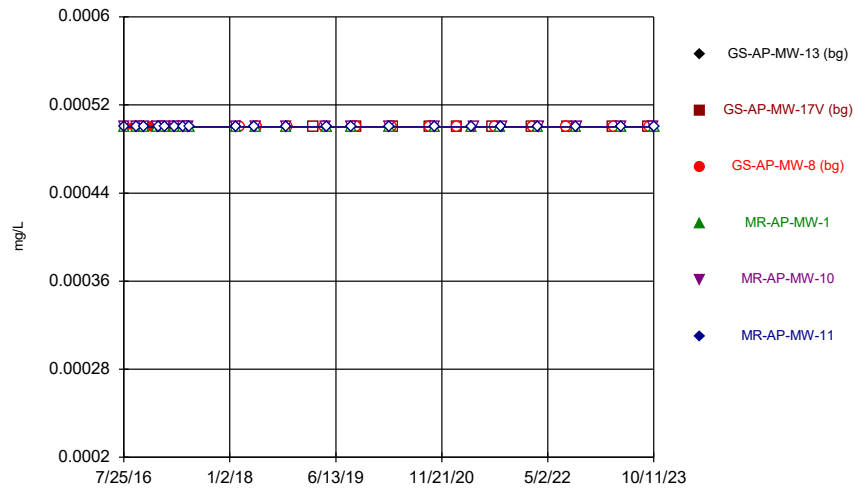
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Time Series



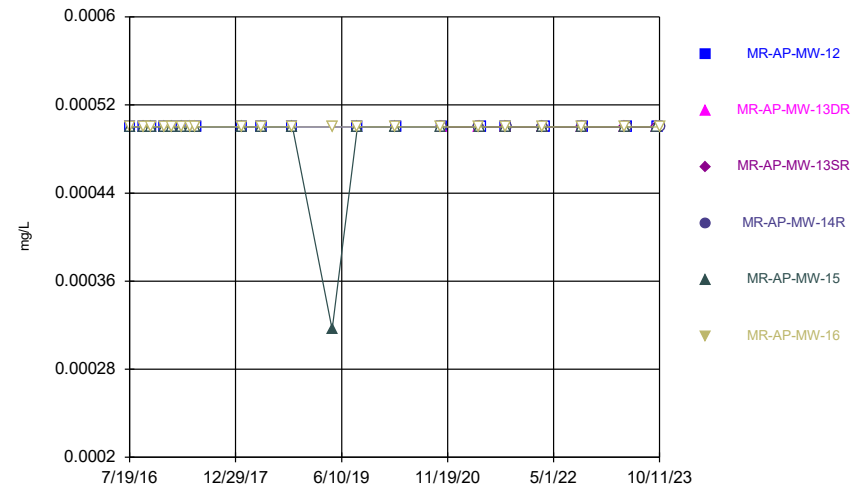
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Time Series



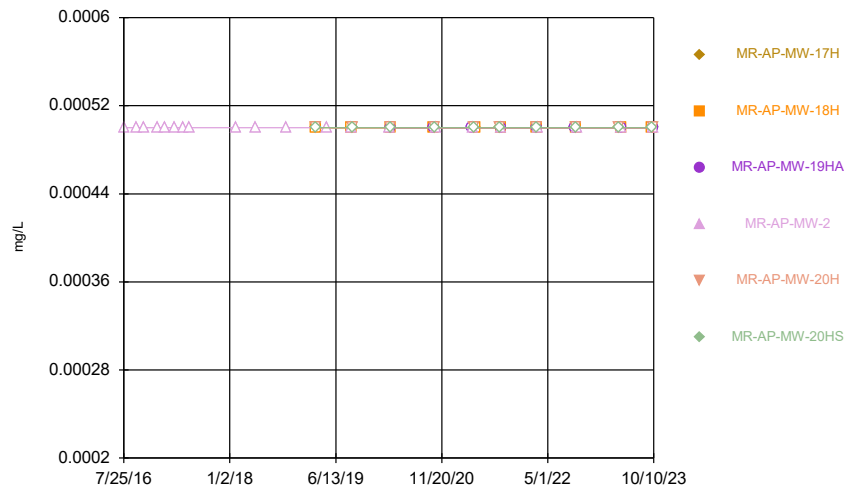
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Time Series



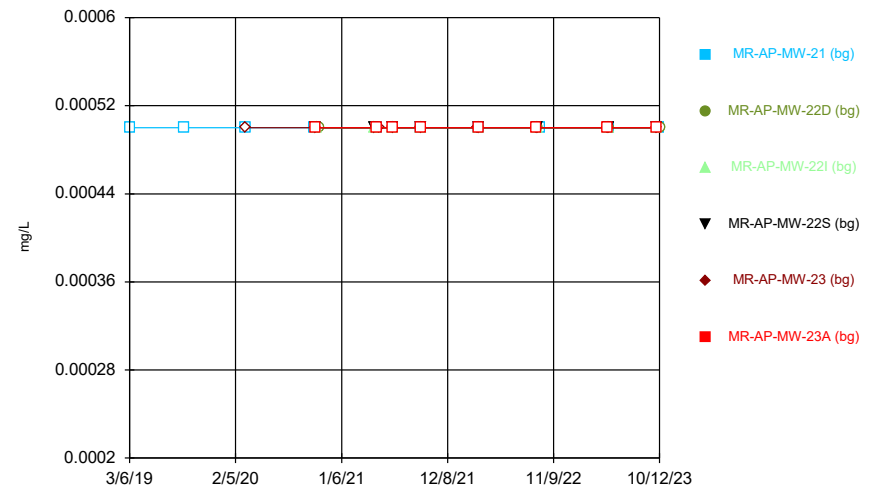
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Time Series



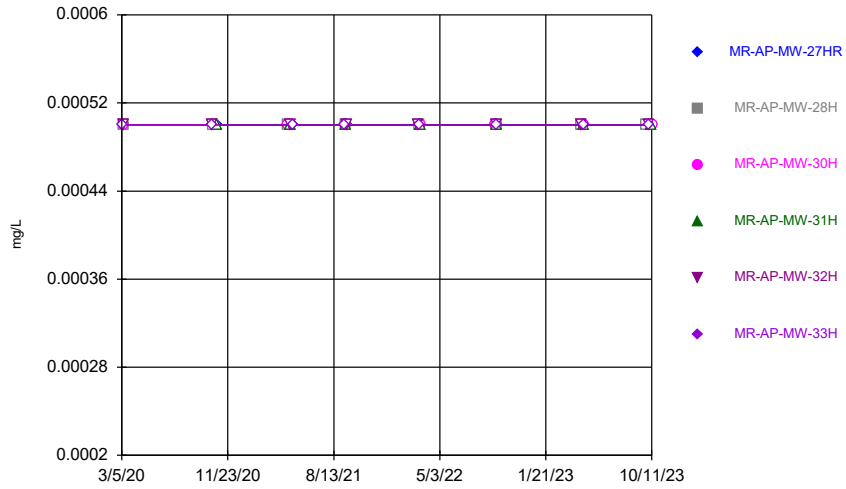
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Time Series



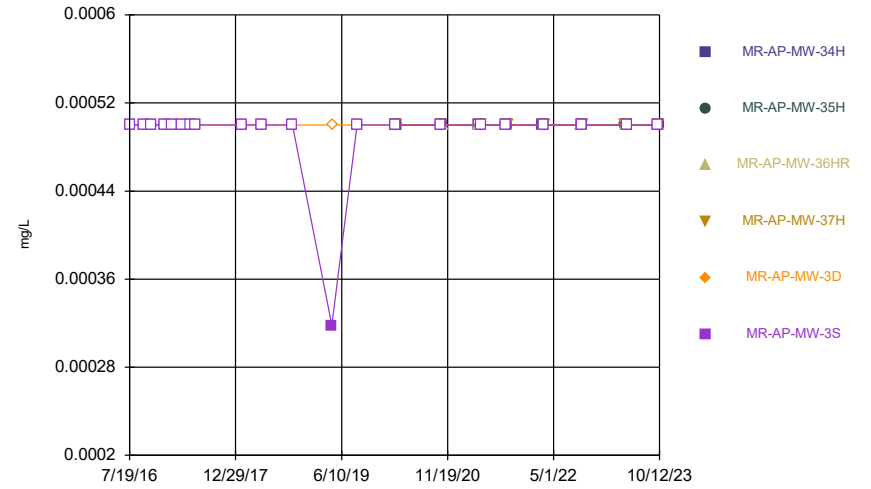
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Time Series



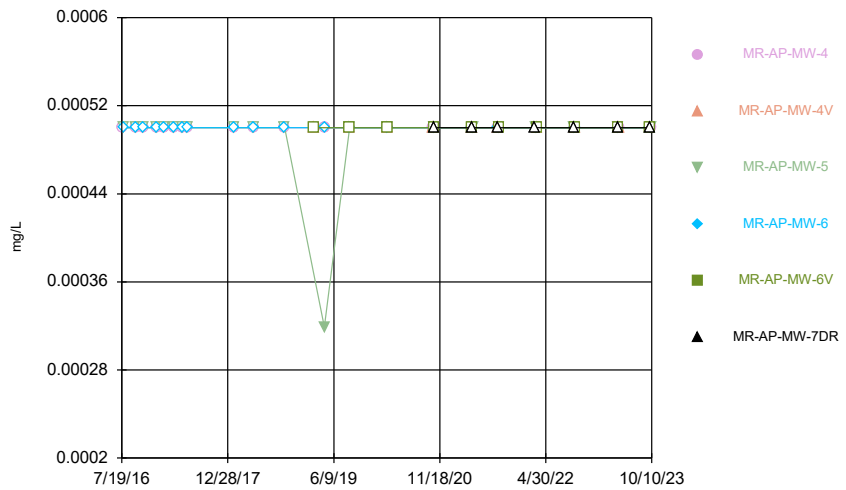
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Time Series



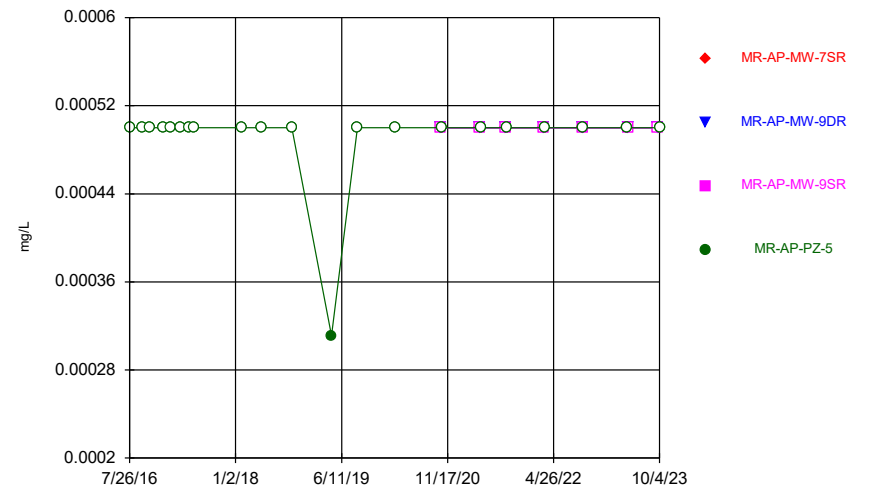
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Time Series



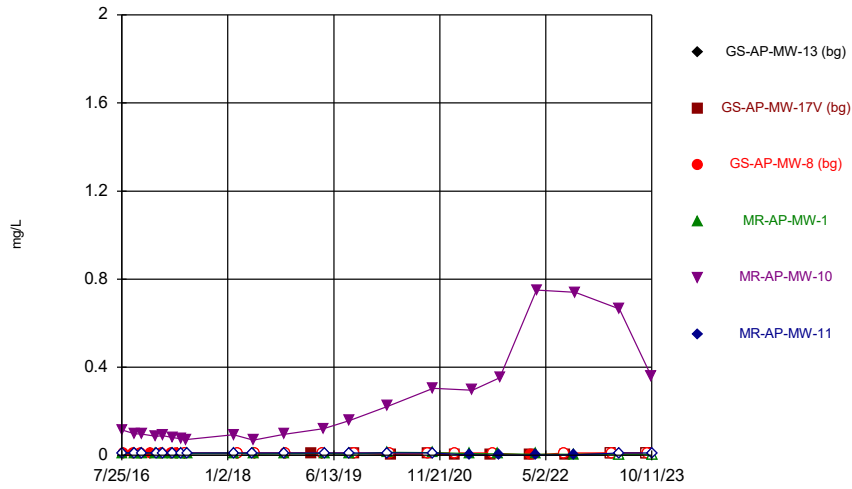
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Time Series



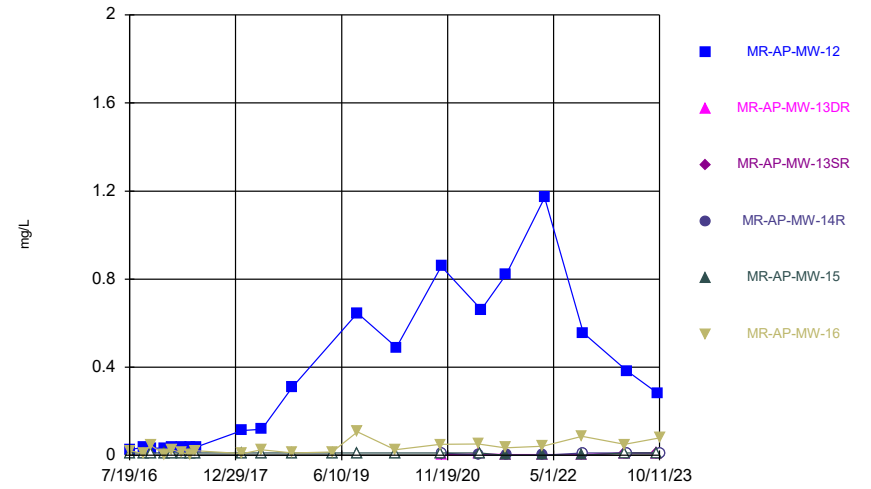
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Time Series



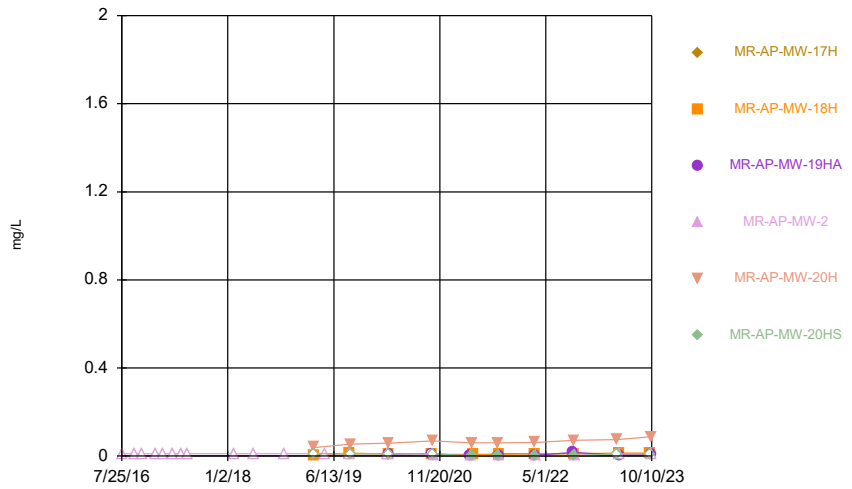
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Time Series



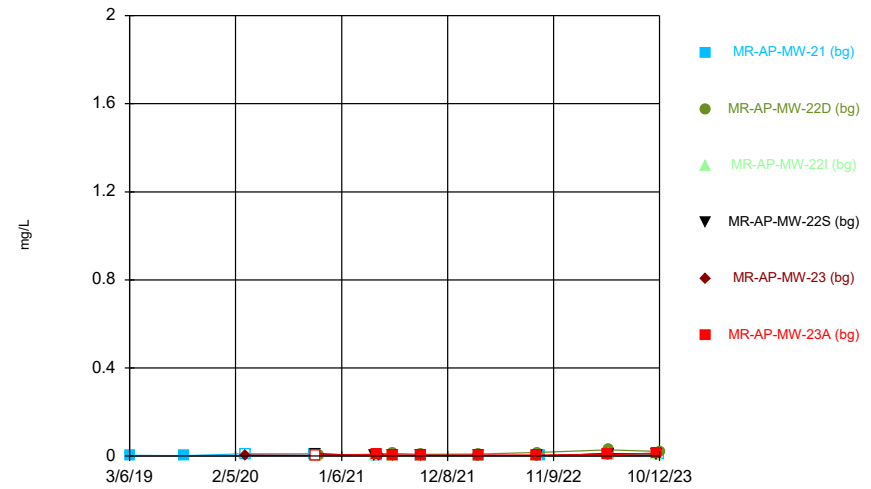
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Time Series



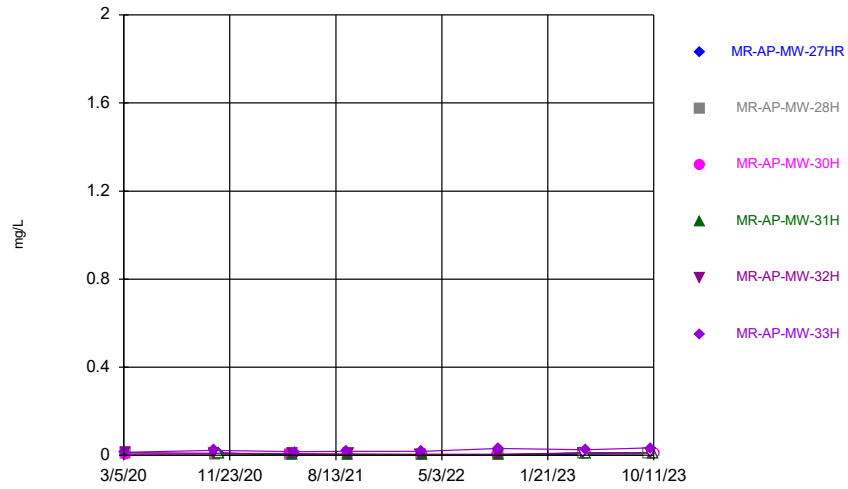
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Time Series



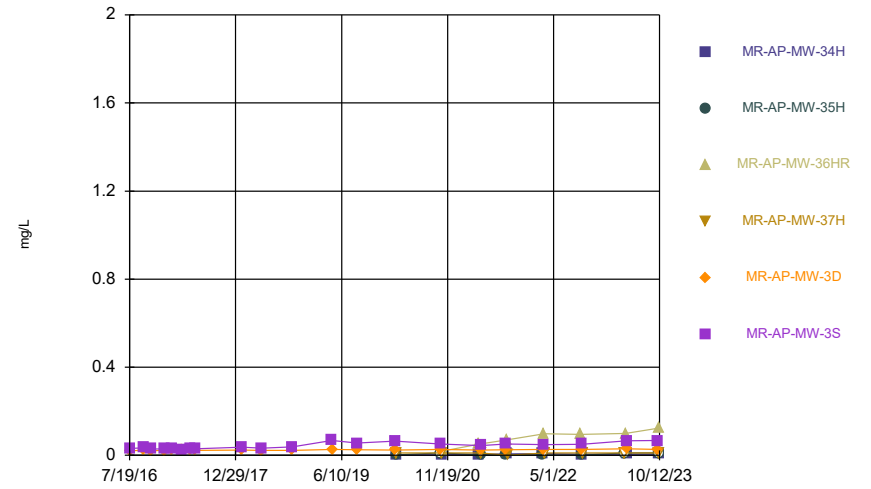
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Time Series



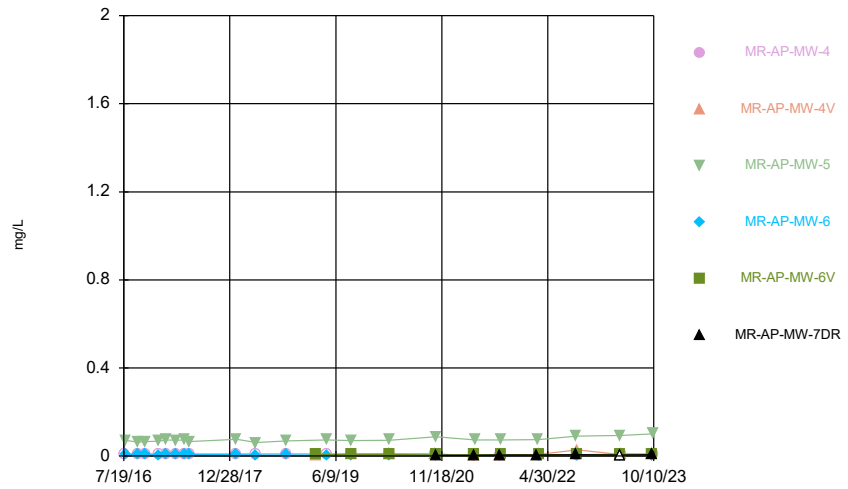
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Time Series



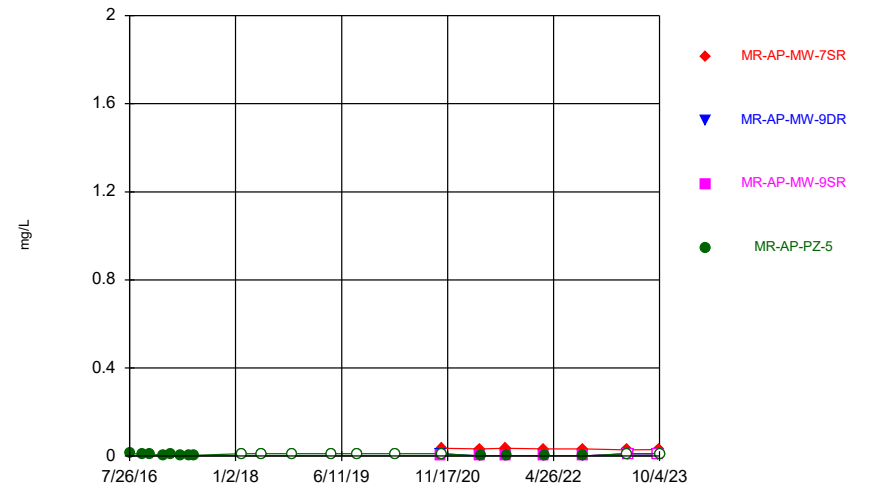
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Time Series



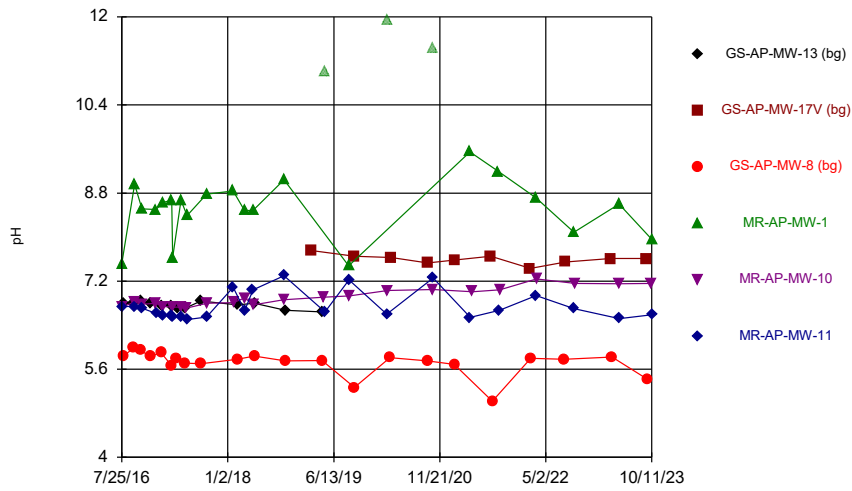
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Time Series



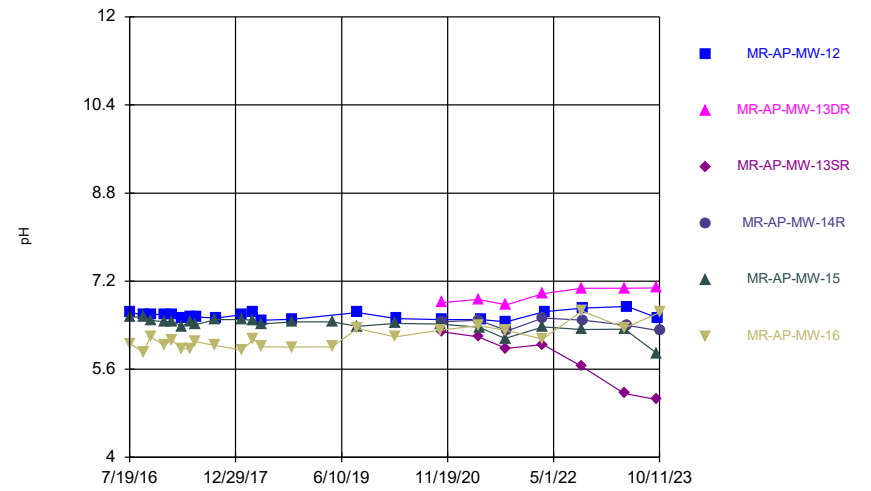
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Time Series



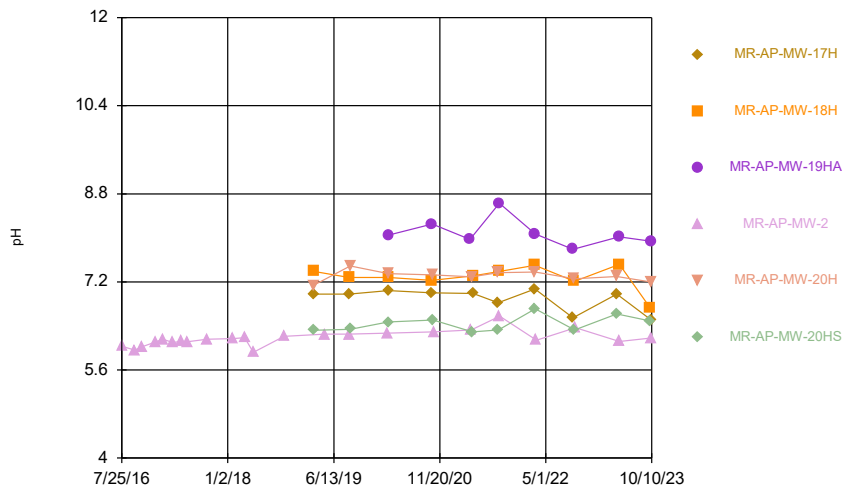
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Plant Miller Data: Miller Ash Pond

Time Series



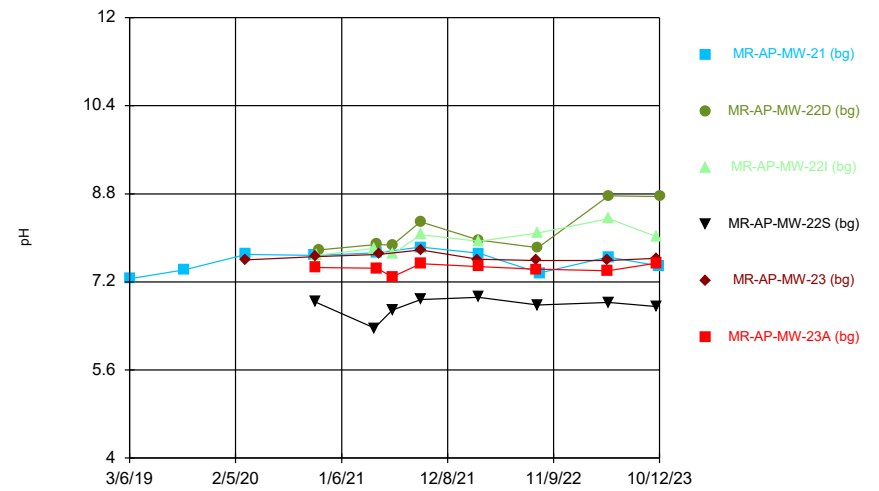
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Time Series



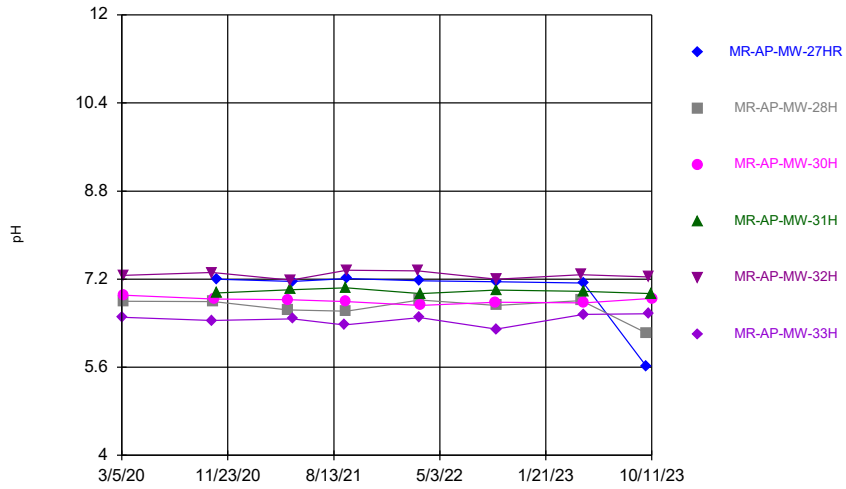
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Time Series



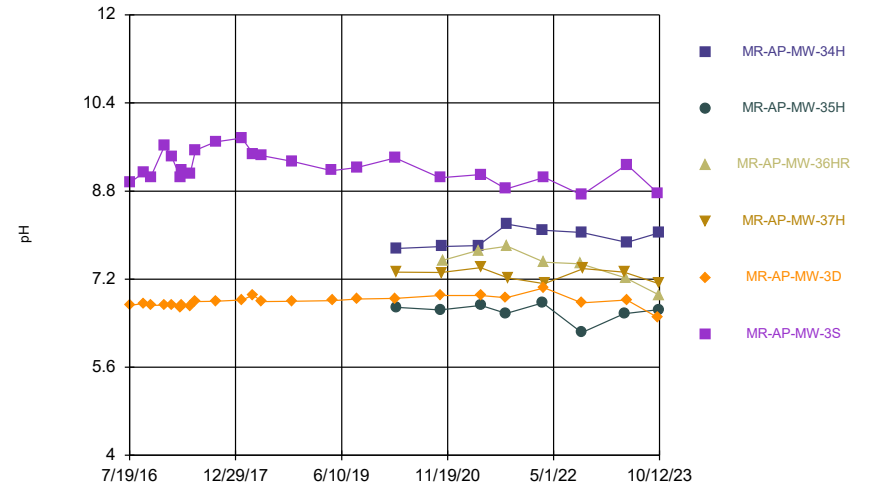
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Time Series



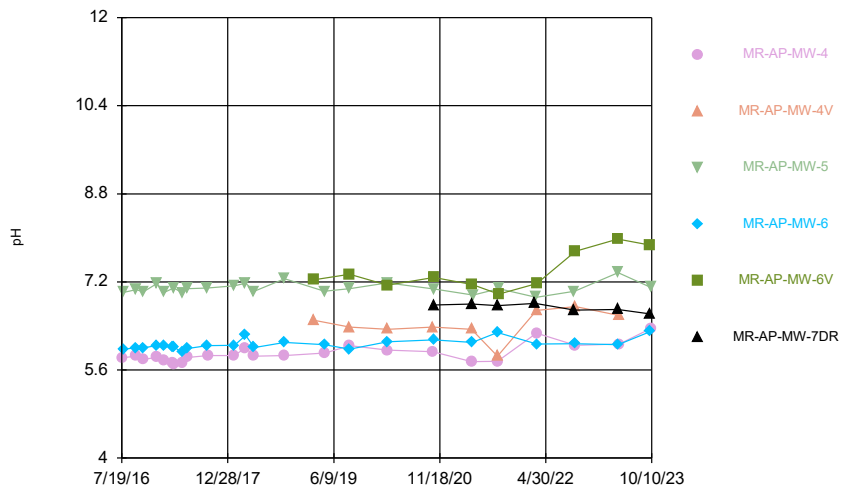
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Time Series



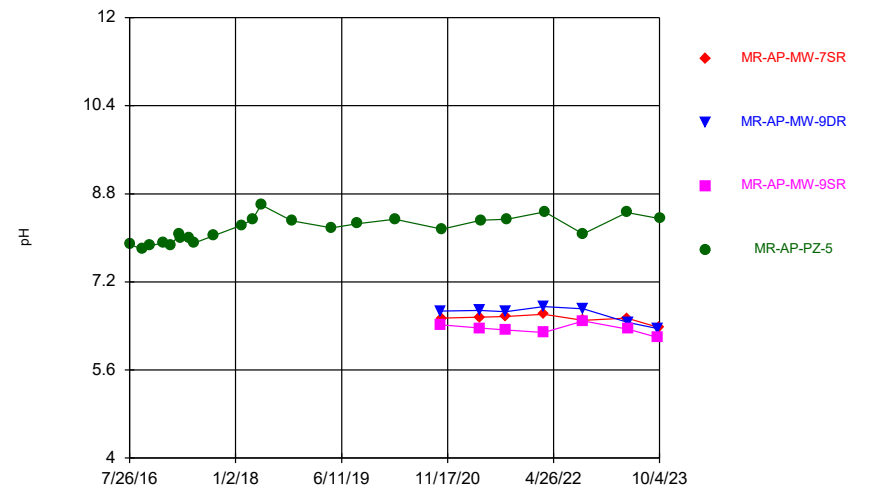
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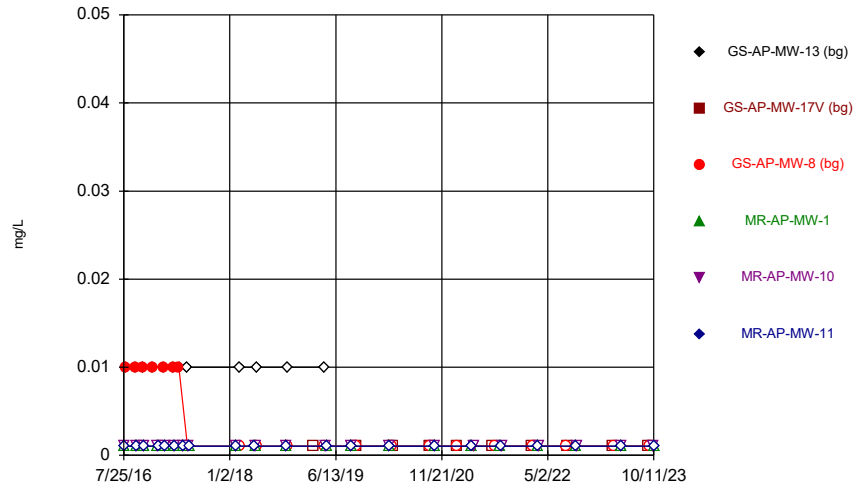
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Time Series



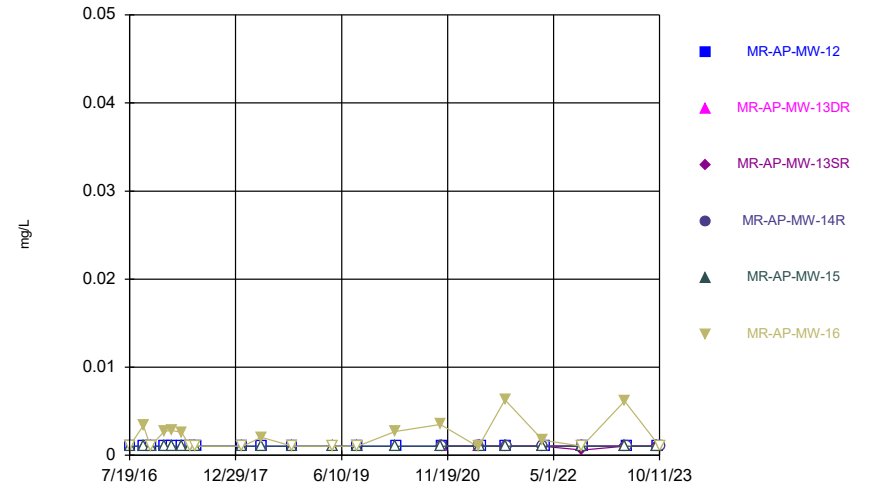
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Time Series



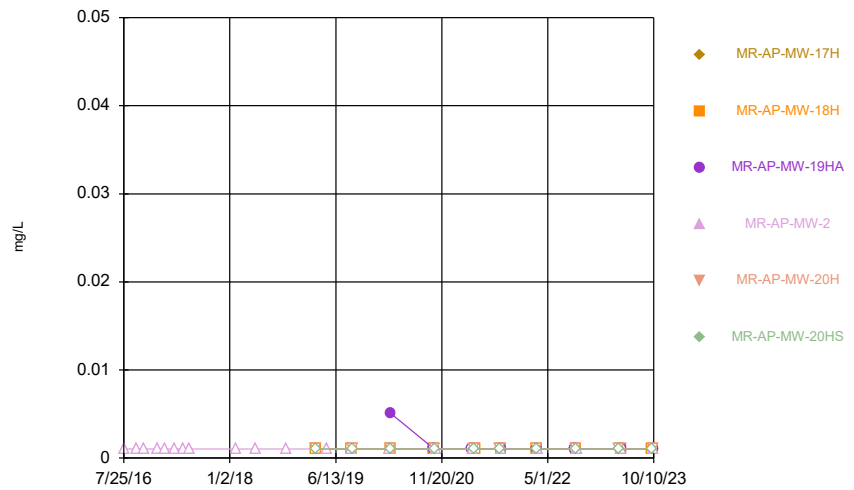
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Time Series



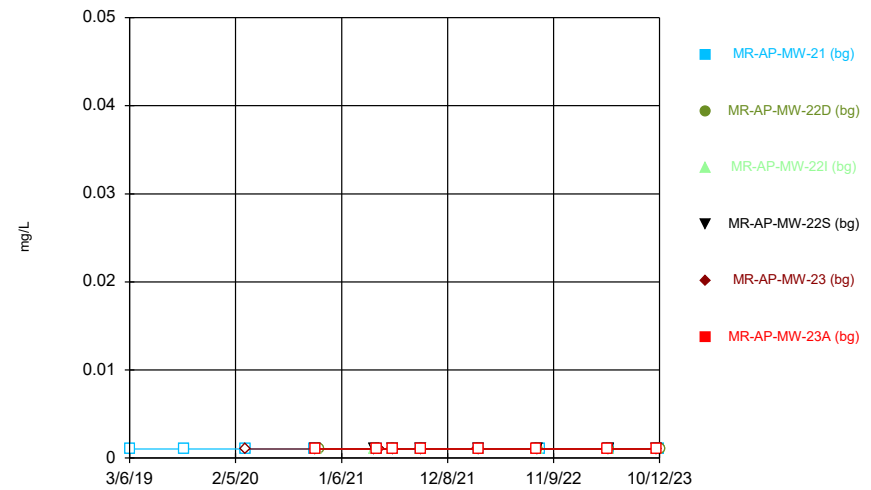
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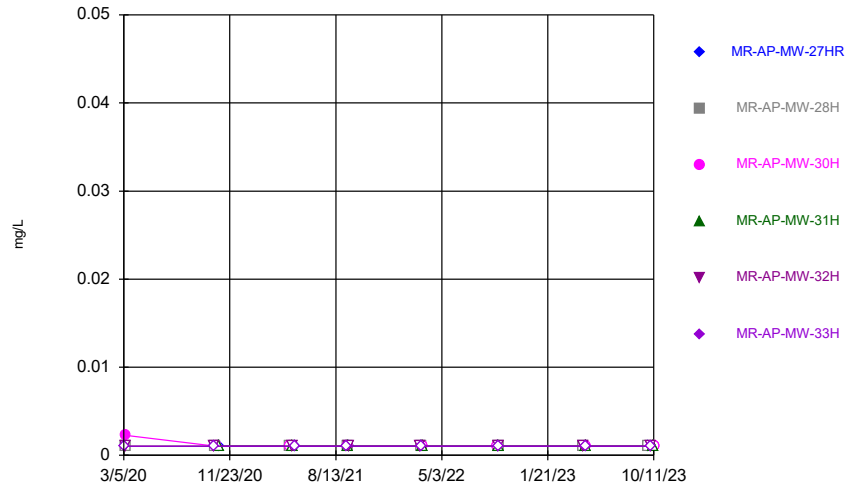
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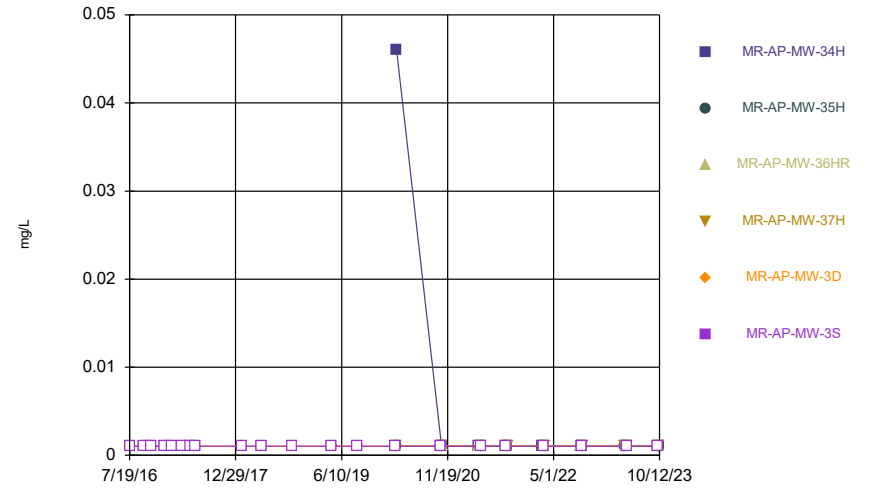
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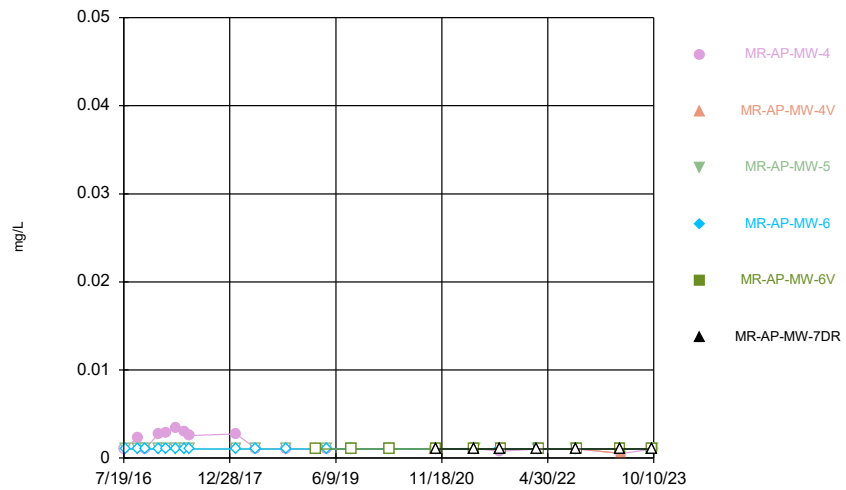
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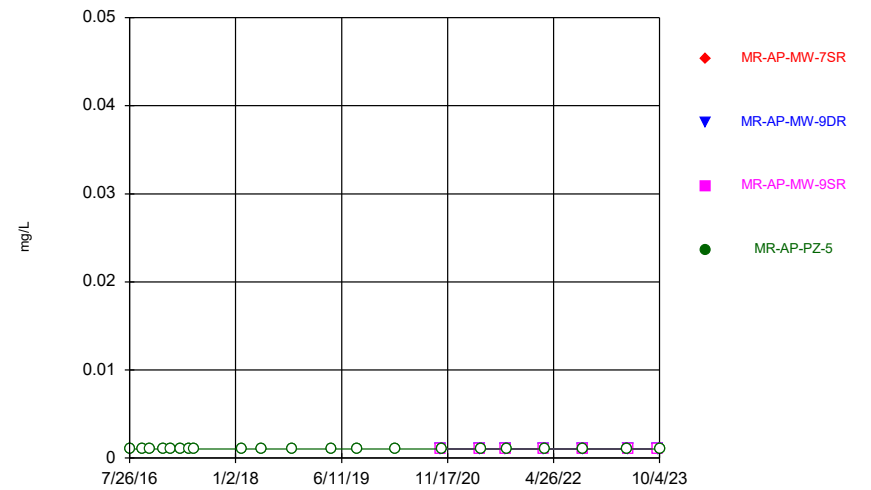
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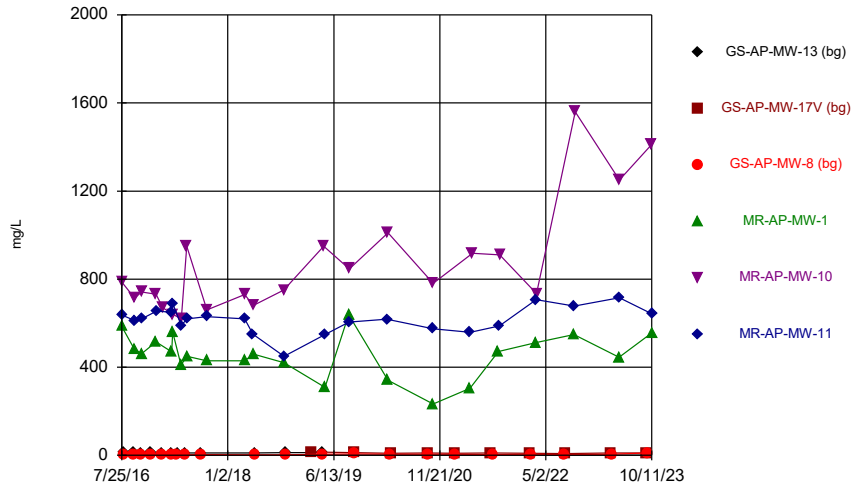
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Time Series



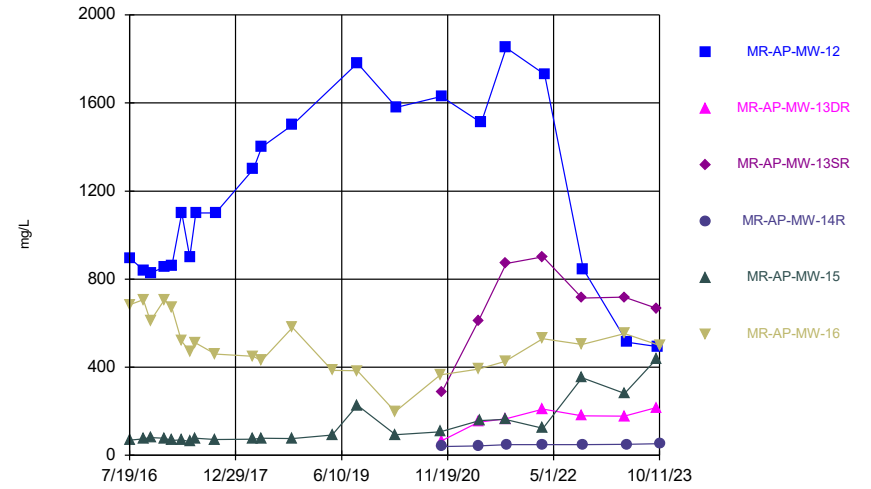
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Time Series



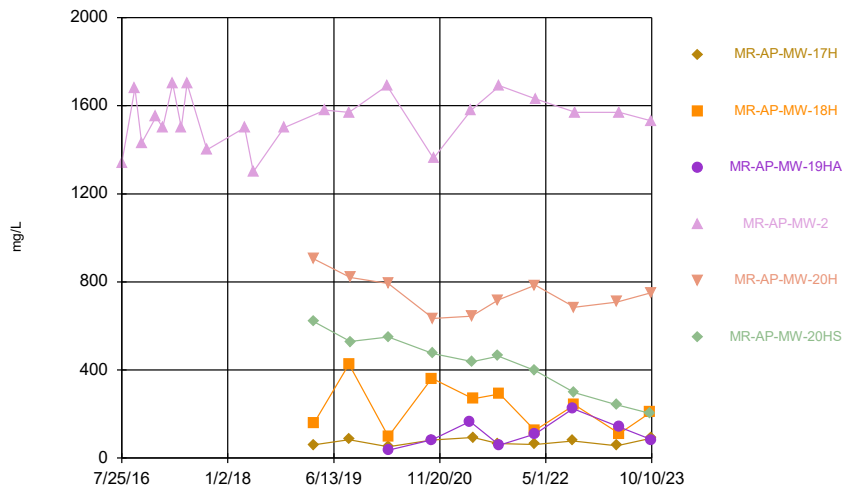
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Plant Miller Data: Miller Ash Pond

Time Series



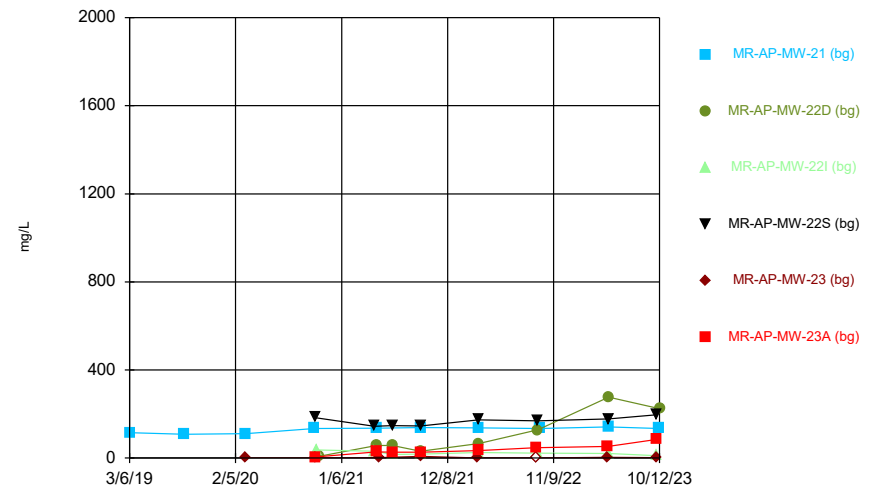
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Time Series



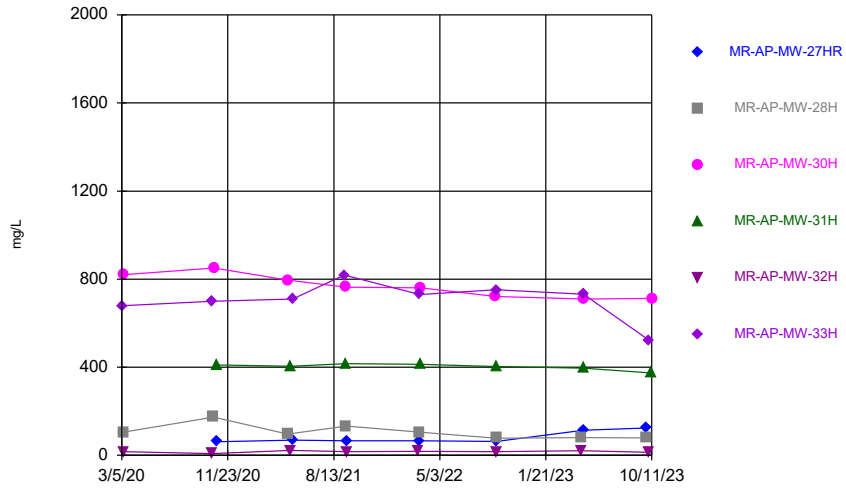
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Time Series



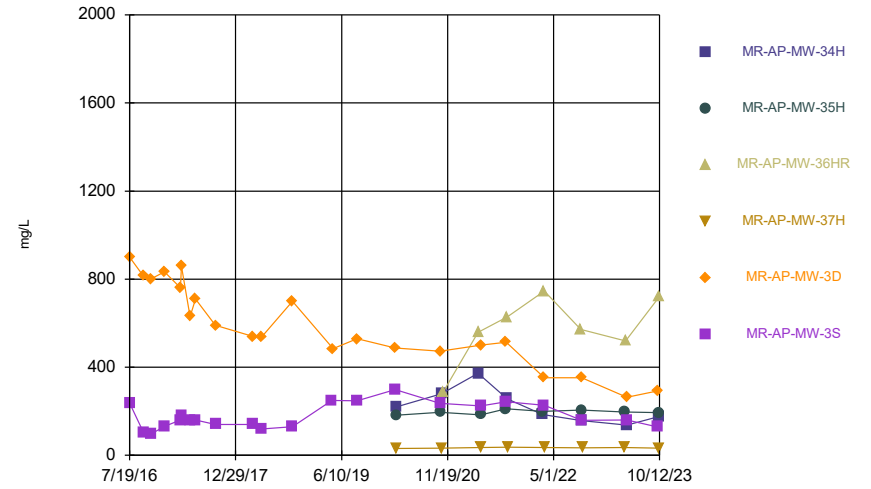
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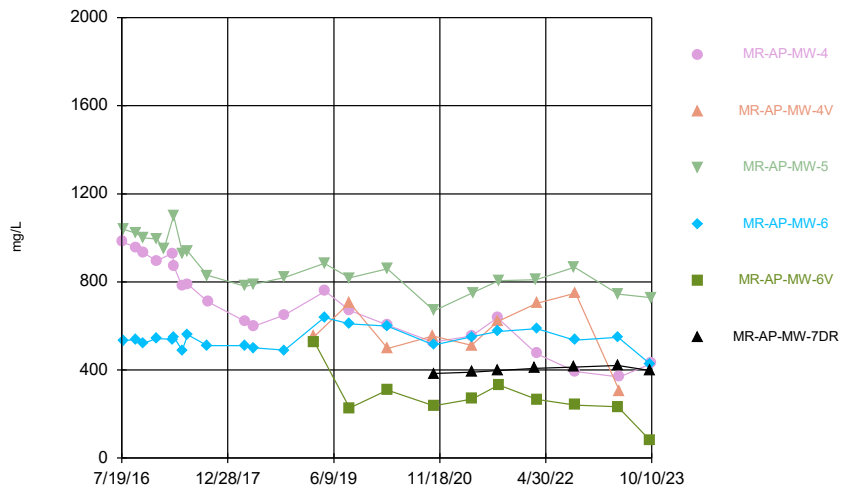
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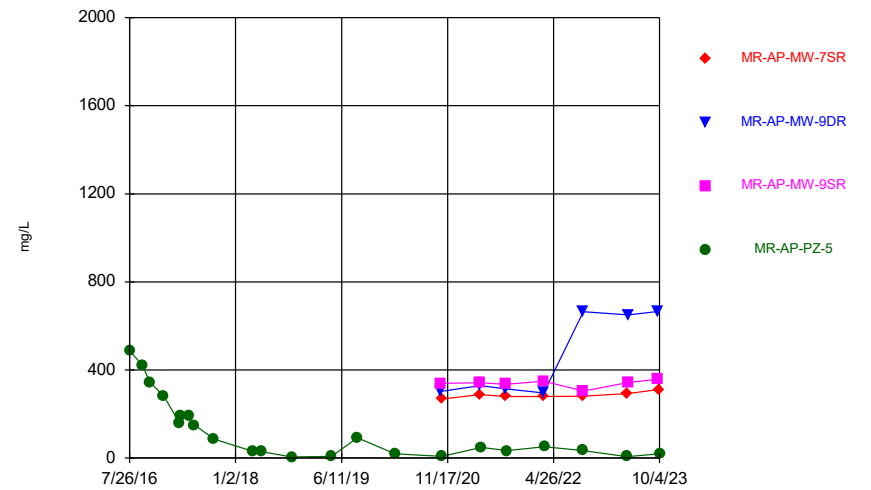
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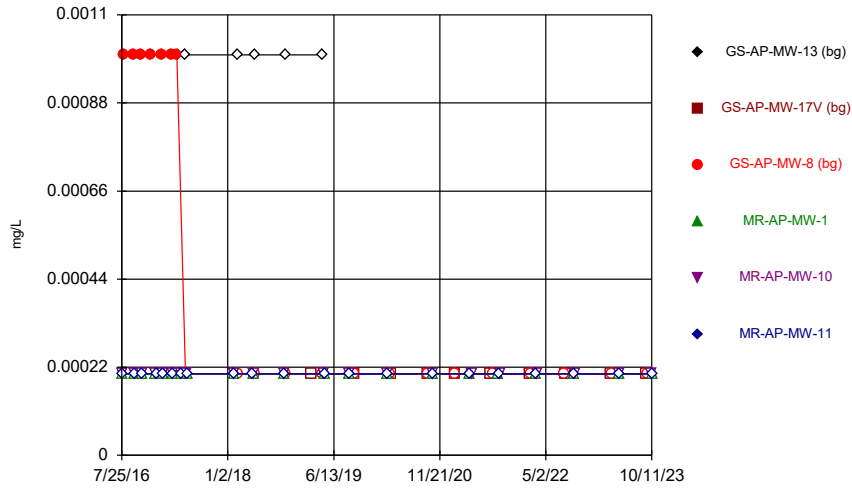
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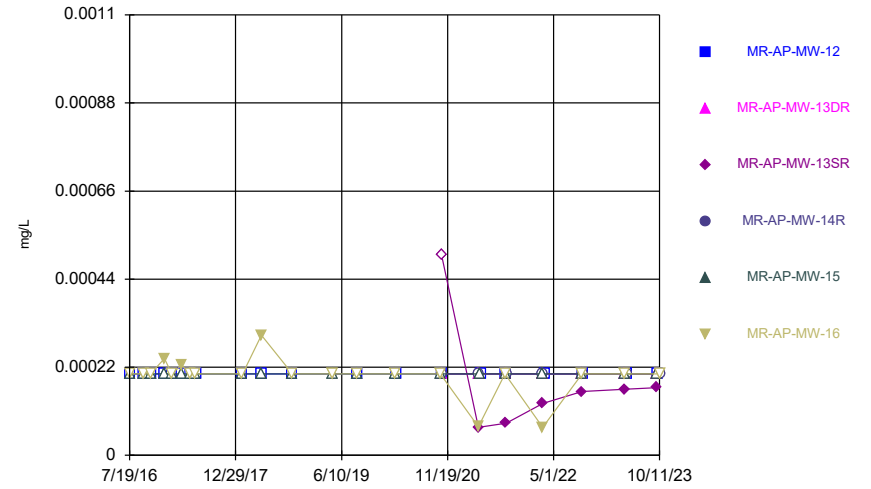
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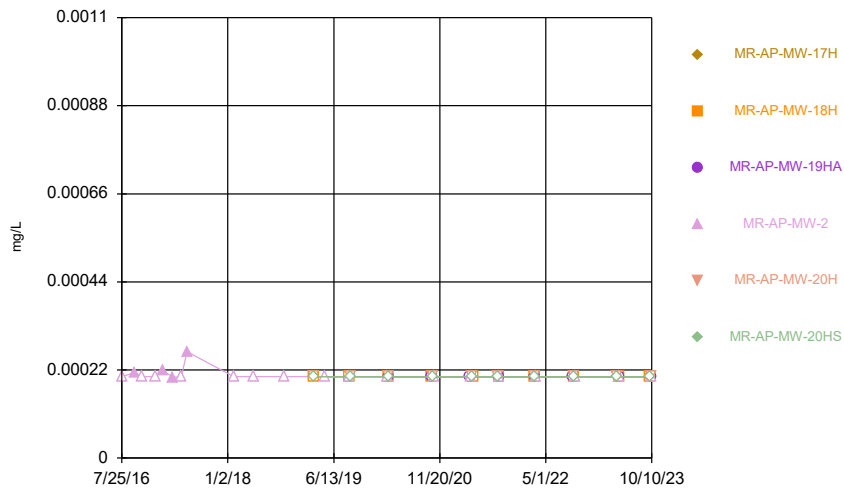
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Time Series



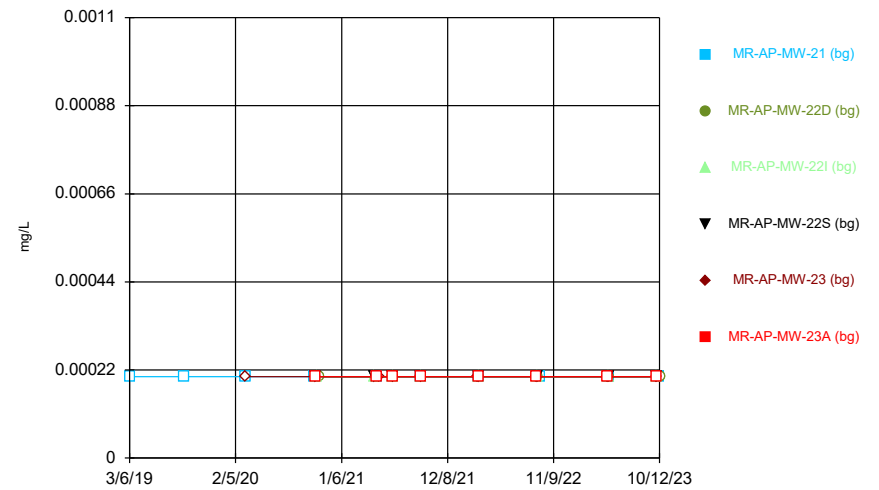
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Time Series



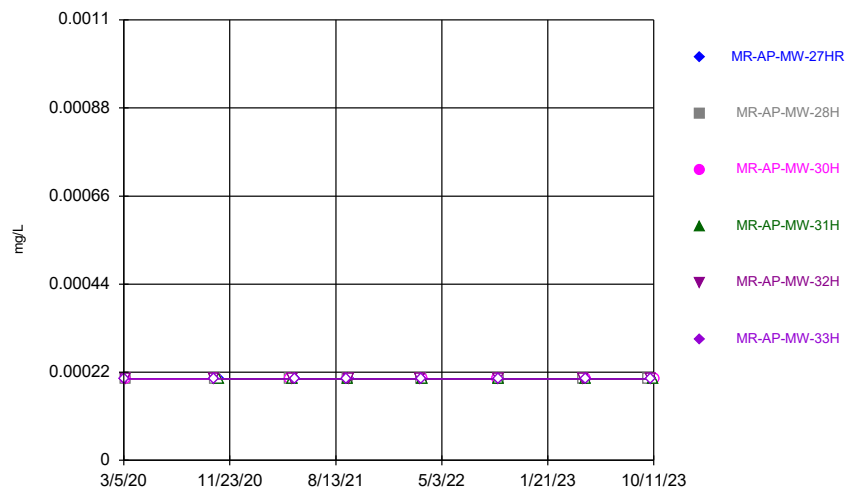
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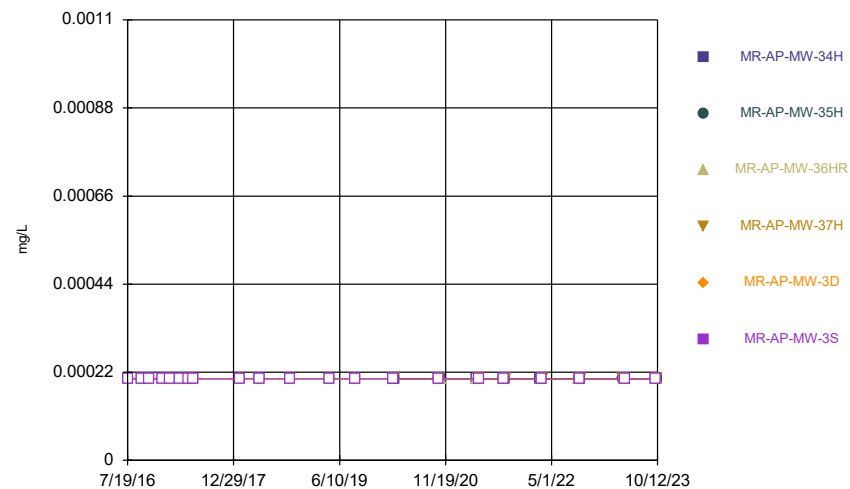
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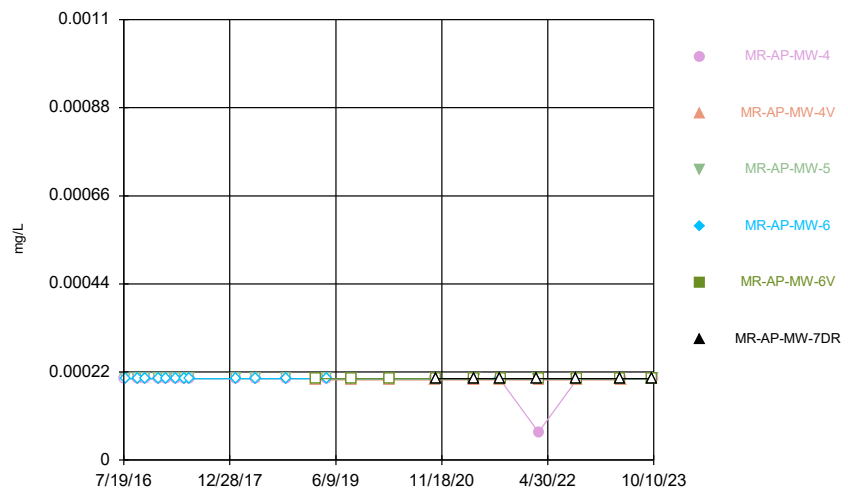
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Plant Miller Data: Miller Ash Pond

Time Series



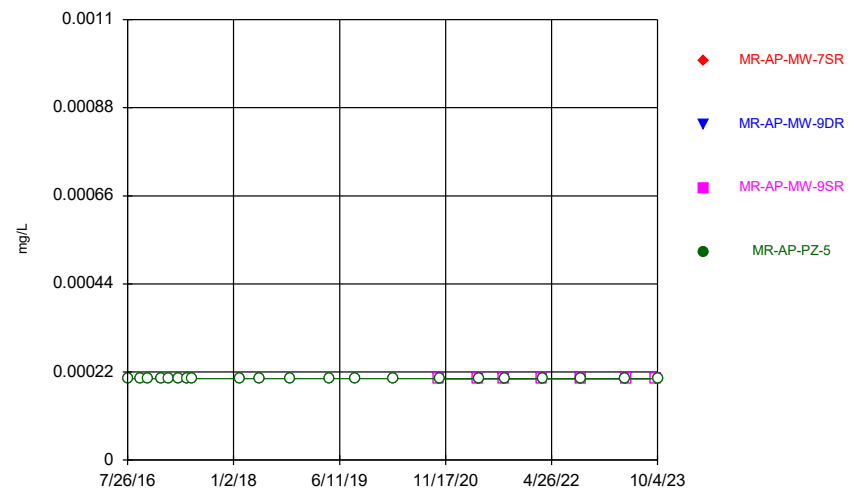
Constituent: Thallium Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series



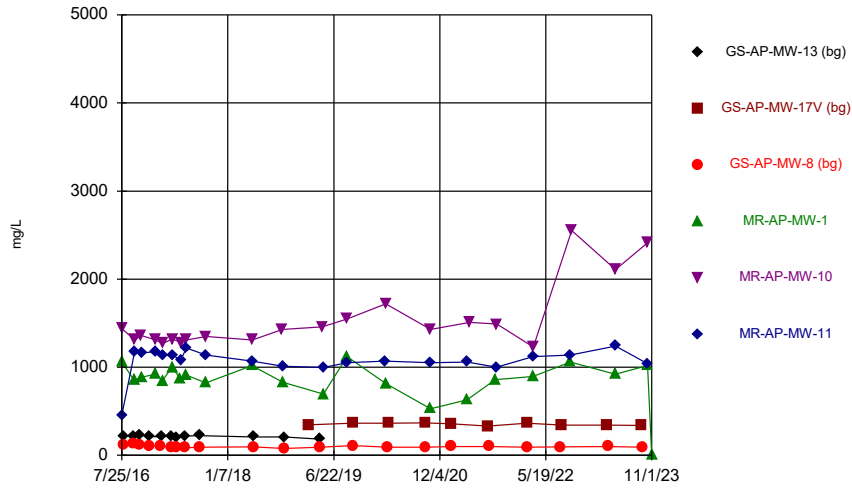
Constituent: Thallium Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series



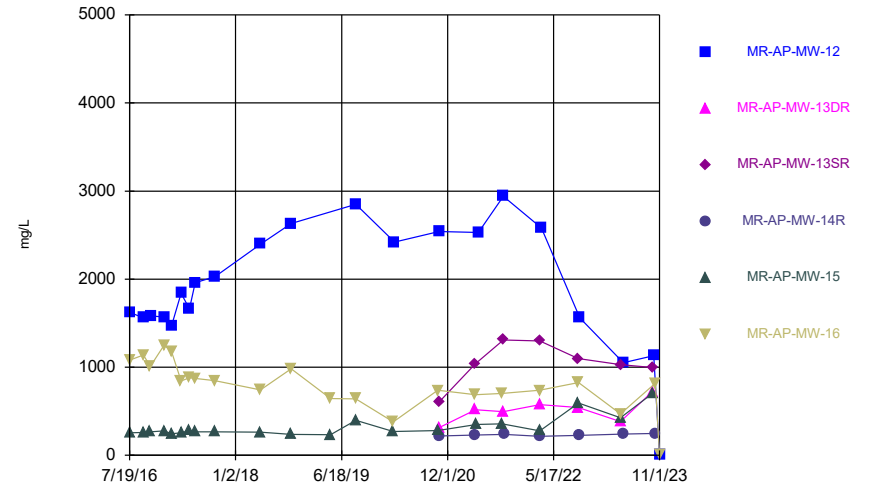
Constituent: Thallium Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series



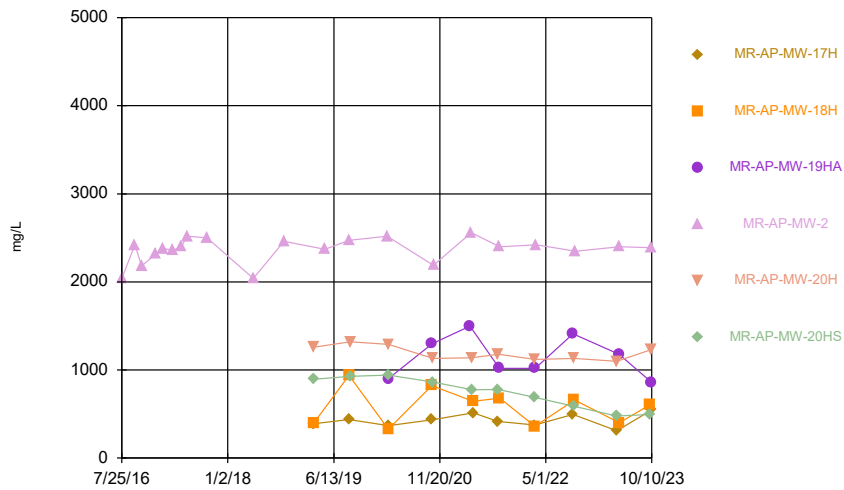
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series



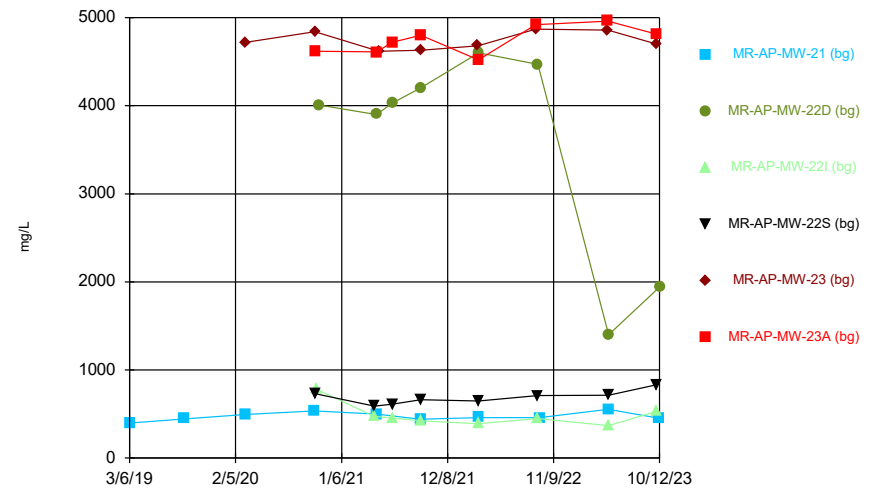
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series



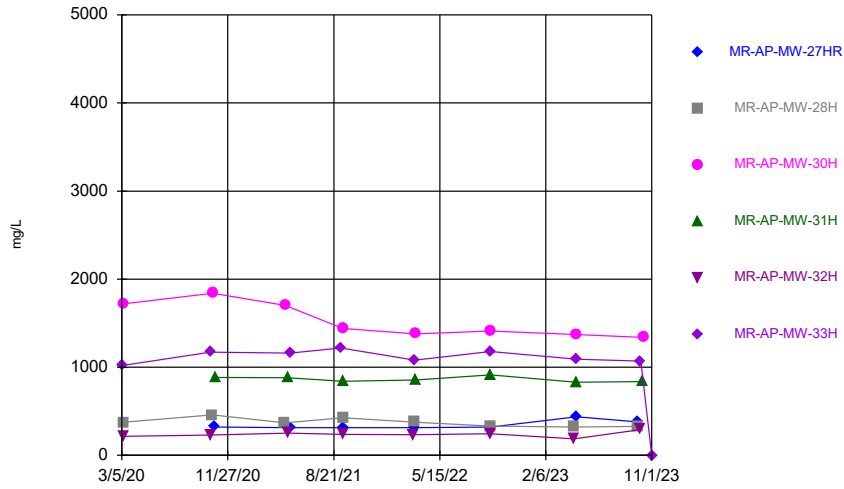
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series



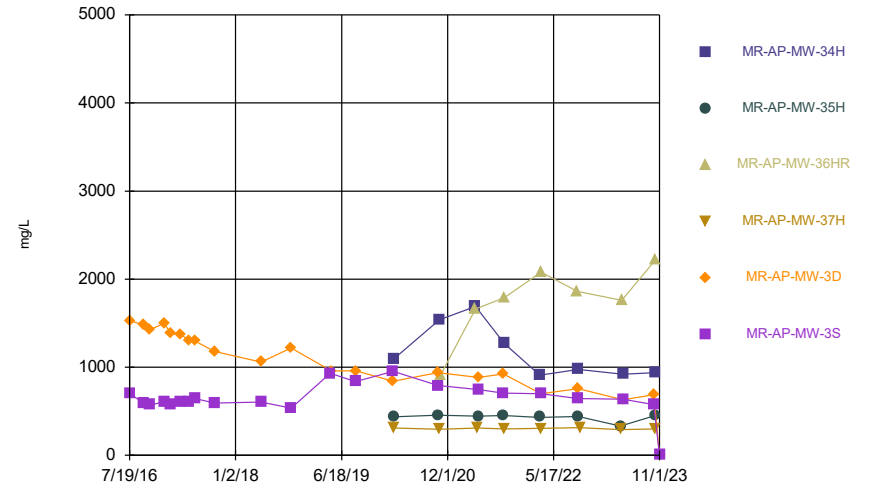
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series



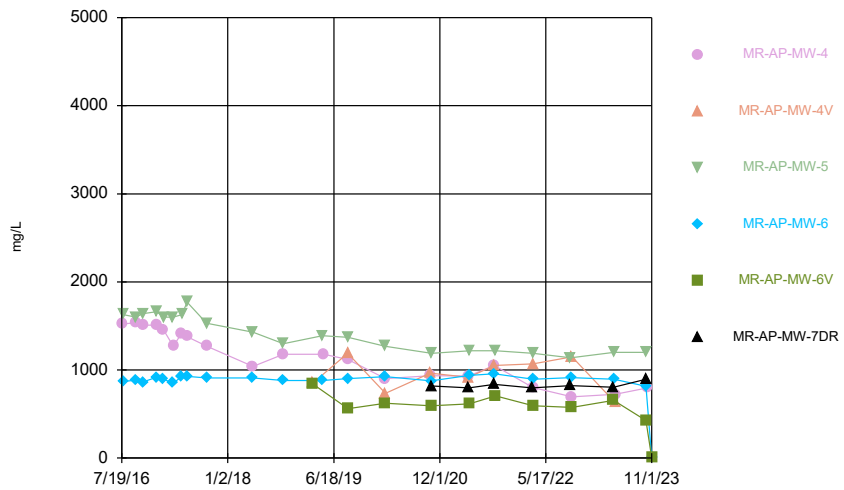
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series



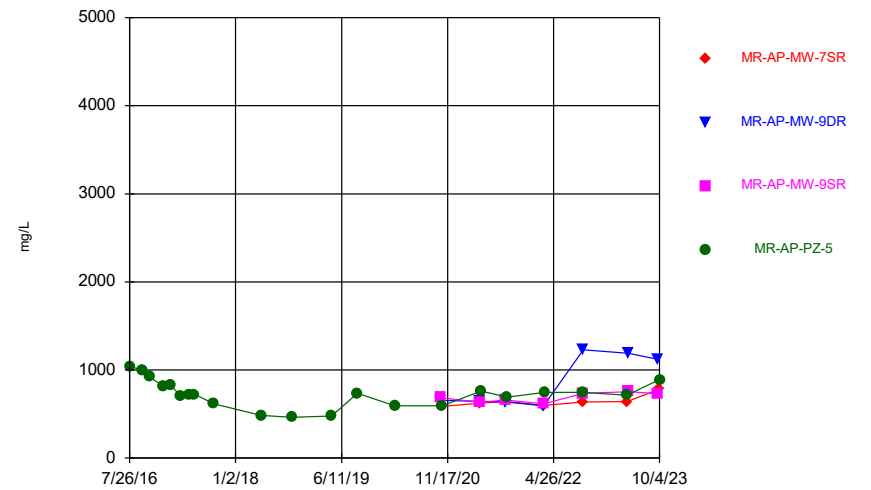
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:31 AM
Plant Miller Data: Miller Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.00102	<0.001015	<0.001015
8/2/2016	0.003					
8/3/2016			0.003			
9/20/2016	0.003					
9/21/2016			0.003			
9/26/2016				<0.00102		
9/27/2016					<0.001015	<0.001015
10/25/2016	0.003		0.003			
10/31/2016					<0.001015	
11/1/2016						<0.001015
11/2/2016				<0.00102		
12/13/2016	0.003		0.00067 (J)			
1/11/2017				<0.00102	<0.001015	
1/12/2017						<0.001015
2/6/2017			0.003			
2/8/2017	0.003					
2/13/2017				<0.00102		<0.001015
2/14/2017					<0.001015	
3/28/2017			0.003			
3/29/2017	0.003					
4/3/2017				<0.00102		
4/4/2017						<0.001015
4/6/2017					<0.001015	
4/24/2017			0.003			
4/26/2017	0.003					
5/15/2017				<0.00102		
5/16/2017						<0.001015
5/17/2017					<0.001015	
6/7/2017	<0.003		<0.001015			
6/13/2017					<0.001015	
6/14/2017				<0.00102		<0.001015
1/31/2018					<0.001015	
2/1/2018				<0.00102		<0.001015
2/19/2018			<0.001015			
2/20/2018	<0.003					
5/8/2018						<0.001015
5/9/2018				<0.00102		
5/10/2018					<0.001015	
5/15/2018	<0.003		<0.001015			
10/8/2018					<0.001015	
10/9/2018				<0.00102		<0.001015
10/16/2018			<0.001015			
10/17/2018	<0.003					
2/20/2019		0.00115 (J)				
4/16/2019	<0.003		<0.001015			
4/24/2019					<0.001015	
5/1/2019				<0.00102		<0.001015
8/27/2019				<0.00102		
8/28/2019						<0.001015
8/29/2019					<0.001015	
9/24/2019		<0.001015	<0.001015			
3/3/2020						<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2023 11:32 AM
 Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.00102	<0.001015	
3/18/2020			<0.001015			
3/25/2020	<0.001015					
9/21/2020			<0.001015			
9/23/2020	<0.001015					
10/19/2020				<0.00102	<0.001015	
10/20/2020						<0.001015
2/2/2021	<0.001015		<0.001015			
4/20/2021				<0.00102		
4/21/2021						<0.001015
5/3/2021					<0.001015	
8/2/2021	<0.001015					
8/10/2021			<0.001015			
9/8/2021				<0.00102		
9/14/2021						<0.001015
9/15/2021					<0.001015	
2/14/2022	<0.001015					
2/16/2022			<0.001015			
3/15/2022				<0.00102		
3/16/2022						<0.001015
3/17/2022					<0.001015	
8/2/2022			<0.001015			
8/9/2022	<0.001015					
9/19/2022				<0.00102		
9/20/2022						<0.001015
9/26/2022					<0.001015	
3/22/2023	<0.001015					
3/27/2023			<0.001015			
5/2/2023				0.0255		
5/3/2023					<0.001015	<0.001015
9/11/2023	<0.001015					
9/18/2023			<0.001015			
10/9/2023					<0.001015	
10/11/2023				0.012		<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.001015	<0.001015
7/20/2016	0.00069 (J)					
9/26/2016					<0.001015	<0.001015
9/27/2016	0.000757 (J)					
10/31/2016					<0.001015	<0.001015
11/1/2016	<0.001015					
1/9/2017					<0.001015	<0.001015
1/11/2017	<0.001015					
2/14/2017					<0.001015	0.000801 (J)
2/15/2017	<0.001015					
4/3/2017						<0.001015
4/4/2017	0.000652 (J)				<0.001015	
5/15/2017	0.000849 (J)					
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
6/14/2017	<0.001015					
1/30/2018	<0.001015					
1/31/2018					<0.001015	
2/1/2018						<0.001015
5/7/2018					<0.001015	<0.001015
5/8/2018	<0.001015					
10/8/2018	<0.001015					
10/9/2018					<0.001015	<0.001015
4/24/2019					<0.001015	0.00107 (J)
8/28/2019	<0.001015				<0.001015	<0.001015
3/3/2020						<0.001015
3/4/2020					<0.001015	
3/10/2020	<0.001015					
10/13/2020					<0.001015	<0.001015
10/19/2020	<0.001015					
10/20/2020		<0.001015	<0.001015	<0.001015		
4/21/2021		<0.001015	<0.001015	<0.001015		0.000768 (J)
4/26/2021					<0.001015	
5/5/2021	<0.001015					
9/1/2021					<0.001015	<0.001015
9/7/2021	0.00056 (J)	<0.001015	<0.001015			
9/13/2021				<0.001015		
3/8/2022						<0.001015
3/9/2022		<0.001015	<0.001015	<0.001015	<0.001015	
3/17/2022	0.00058 (J)					
9/19/2022		<0.001015	<0.001015			
9/20/2022					<0.001015	<0.001015
9/26/2022	<0.001015				<0.001015	
4/18/2023		<0.001015	<0.001015			
4/19/2023					<0.001015	<0.001015
5/2/2023					<0.001015	
5/3/2023	<0.001015					
9/26/2023		<0.001015	<0.001015		<0.001015	
10/2/2023	<0.001015					
10/11/2023					<0.001015	<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.001015		
9/28/2016				<0.001015		
11/1/2016				<0.001015		
1/11/2017				<0.001015		
2/14/2017				<0.001015		
4/4/2017				<0.001015		
5/16/2017				<0.001015		
6/14/2017				<0.001015		
2/1/2018				<0.001015		
5/9/2018				<0.001015		
10/9/2018				<0.001015		
3/6/2019	<0.001015	<0.001015			<0.001015	<0.001015
5/1/2019				<0.001015		
8/27/2019	<0.001015	<0.001015		<0.001015		
9/3/2019					<0.001015	<0.001015
3/3/2020				<0.001015		
3/9/2020			<0.001015			
3/10/2020	<0.001015	<0.001015			<0.001015	<0.001015
10/13/2020	<0.001015	<0.001015				
10/14/2020			<0.001015			
10/19/2020					<0.001015	<0.001015
10/21/2020				<0.001015		
4/20/2021			<0.001015			
4/26/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021						<0.001015
5/5/2021	<0.001015	<0.001015				
9/7/2021	<0.001015					
9/8/2021					<0.001015	<0.001015
9/13/2021			<0.001015			
9/14/2021		<0.001015		<0.001015		
3/8/2022	<0.001015	<0.001015				
3/9/2022			<0.001015		<0.001015	<0.001015
3/16/2022				<0.001015		
9/14/2022	<0.001015		<0.001015			
9/21/2022		<0.001015			<0.001015	<0.001015
9/26/2022				<0.001015		
4/19/2023	<0.001015				<0.001015	<0.001015
5/1/2023			<0.001015			
5/2/2023		<0.001015		<0.001015		
10/3/2023		<0.001015				<0.001015
10/4/2023					<0.001015	
10/10/2023	<0.001015		<0.001015	<0.001015		

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.001015					
8/28/2019	<0.001015					
3/9/2020	<0.001015				<0.001015	
10/13/2020	<0.001015					
10/14/2020				<0.001015	<0.001015	<0.001015
10/20/2020			<0.001015			
10/26/2020	<0.00102					
4/20/2021			<0.001015	<0.001015		
4/27/2021	<0.00102					0.000758 (J)
4/28/2021	<0.001015					
5/5/2021					<0.001015	
6/16/2021	<0.00102	<0.001015	<0.001015	<0.001015		<0.001015
9/14/2021	<0.001015	0.00072 (J)				
9/15/2021			<0.001015	<0.001015	0.00056 (J)	0.00057 (J)
3/15/2022					0.0009 (J)	
3/16/2022			<0.001015	<0.001015		0.00109
3/17/2022	<0.001015	0.00114				
9/14/2022					<0.001015	<0.001015
9/21/2022		<0.00102	<0.001015	<0.001015		
9/26/2022	<0.001015					
5/1/2023					0.00113	0.00148
5/2/2023	<0.001015					
5/3/2023		0.000764 (J)	<0.001015	<0.001015		
10/4/2023			<0.001015	<0.001015	<0.001015	<0.001015
10/11/2023	<0.001015					
10/12/2023		0.000751 (J)				

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.001015
3/9/2020		<0.001015				
3/10/2020			<0.001015		<0.001015	
10/14/2020						<0.001015
10/15/2020					<0.001015	
10/19/2020		<0.001015				
10/20/2020			<0.001015			
10/26/2020	<0.001015					
10/27/2020				<0.001015		
4/20/2021		<0.001015				
4/21/2021			<0.001015			
4/27/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021	<0.001015					<0.001015
9/8/2021						<0.001015
9/13/2021		<0.001015	<0.001015	<0.001015		
9/14/2021	<0.001015				<0.001015	
3/9/2022					<0.001015	
3/14/2022	<0.001015	<0.001015				<0.001015
3/16/2022			<0.001015	<0.001015		
9/19/2022			<0.001015			
9/20/2022		<0.001015		<0.001015		<0.001015
9/21/2022	<0.001015				<0.001015	
4/19/2023		<0.001015			<0.001015	
4/24/2023				<0.001015		
4/25/2023	<0.001015					<0.001015
4/26/2023			<0.001015			
9/27/2023	<0.001015	<0.001015				
10/4/2023					<0.001015	<0.001015
10/9/2023				<0.001015		
10/11/2023			<0.001015			

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.000725 (J)	0.000787 (J)
9/26/2016					<0.001015	<0.001015
10/31/2016					<0.001015	<0.001015
1/9/2017					<0.001015	<0.001015
2/13/2017					<0.001015	<0.001015
4/3/2017					<0.001015	<0.001015
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
1/29/2018					<0.001015	<0.001015
5/10/2018					<0.001015	<0.001015
10/9/2018					<0.001015	<0.001015
4/22/2019						0.00126 (J)
4/29/2019					0.00118 (J)	
8/27/2019					<0.001015	<0.001015
3/3/2020					<0.001015	<0.001015
3/9/2020	<0.001015			0.00201 (J)		
3/10/2020		<0.001015				
10/13/2020		<0.001015			<0.001015	<0.001015
10/19/2020				0.0015 (J)		
10/21/2020	<0.001015					
10/27/2020			<0.001015			
4/21/2021	<0.001015		<0.001015			
5/3/2021				0.00123		
5/5/2021		<0.001015			<0.001015	<0.001015
9/7/2021		<0.001015			<0.001015	<0.001015
9/13/2021	<0.001015		<0.001015			
9/15/2021				0.00098 (J)		
3/8/2022		<0.001015				
3/9/2022	<0.001015					
3/16/2022			<0.001015		<0.001015	<0.001015
3/17/2022				0.00105		
9/14/2022			<0.001015			
9/19/2022	<0.001015	<0.001015			<0.001015	<0.001015
9/27/2022				0.0006 (J)		
4/18/2023		<0.001015		0.00079 (J)		
4/25/2023			<0.001015			
5/2/2023	<0.001015				<0.001015	<0.001015
10/3/2023					0.00447	0.00289
10/9/2023				0.00077 (J)		
10/10/2023	<0.001015	<0.001015				
10/12/2023			0.000912 (J)			

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.001015					
7/26/2016			<0.001015	<0.001015		
9/27/2016	<0.001015					
9/28/2016			<0.001015	<0.001015		
11/1/2016	<0.001015			<0.001015		
11/2/2016			<0.001015			
1/9/2017	<0.001015			<0.001015		
1/10/2017			<0.001015			
2/13/2017	<0.001015			<0.001015		
2/14/2017			<0.001015			
4/3/2017			<0.001015	<0.001015		
4/4/2017	<0.001015					
5/16/2017	<0.001015			<0.001015		
5/17/2017			<0.001015			
6/12/2017	<0.001015		<0.001015	<0.001015		
1/29/2018	<0.001015					
2/1/2018			<0.001015	<0.001015		
5/9/2018	<0.001015		<0.001015	<0.001015		
10/8/2018	<0.001015		<0.001015	<0.001015		
3/5/2019		0.000933 (J)			<0.001015	
4/23/2019			<0.001015	<0.001015		
4/29/2019	<0.001015					
8/27/2019	<0.001015	<0.001015				
8/28/2019			<0.001015	<0.001015	<0.001015	
3/2/2020			<0.001015			
3/3/2020				<0.001015	<0.001015	
3/4/2020	<0.001015	<0.001015				
10/14/2020	<0.001015	<0.001015				
10/19/2020					<0.001015	
10/20/2020				<0.001015		<0.001015
10/21/2020			<0.001015			
4/26/2021	<0.001015	<0.001015				
4/27/2021						<0.001015
4/28/2021				<0.001015	<0.001015	
5/3/2021			<0.001015			
9/1/2021	<0.001015	<0.001015		<0.001015		<0.001015
9/8/2021			<0.001015		<0.001015	
3/8/2022						<0.001015
3/14/2022			<0.001015			
3/15/2022	<0.001015	<0.001015				
3/16/2022				<0.001015	<0.001015	
9/20/2022			<0.001015			<0.001015
9/21/2022				<0.001015		
9/26/2022	<0.001015	<0.001015			<0.001015	
4/24/2023					<0.001015	<0.001015
4/25/2023			<0.001015	<0.001015		
5/2/2023	<0.001015	<0.001015				
10/3/2023				0.00225	<0.001015	<0.001015
10/4/2023			<0.001015			
10/10/2023	<0.001015					

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.001015
9/28/2016				<0.001015
11/2/2016				<0.001015
1/12/2017				0.000701 (J)
2/13/2017				0.00166 (J)
4/3/2017				0.0008 (J)
5/17/2017				0.000975 (J)
6/12/2017				0.00107 (J)
2/1/2018				<0.001015
5/9/2018				0.00103 (J)
10/8/2018				<0.001015
4/23/2019				0.0009 (J)
8/29/2019				<0.001015
3/2/2020				<0.001015
10/15/2020		<0.001015	<0.001015	
10/20/2020	<0.001015			
10/21/2020				<0.001015
4/27/2021	<0.001015	<0.001015	<0.001015	
5/3/2021				<0.001015
9/1/2021	<0.001015	<0.001015	<0.001015	
9/8/2021				<0.001015
3/8/2022	<0.001015	<0.001015	<0.001015	
3/14/2022				<0.001015
9/20/2022	<0.001015			<0.001015
9/21/2022		<0.001015	<0.001015	
4/24/2023	<0.001015			
4/25/2023				<0.001015
5/3/2023		<0.001015	<0.001015	
9/27/2023		<0.001015	<0.001015	
10/3/2023	<0.001015			
10/4/2023				<0.001015

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.0046 (J)	0.00272 (J)	<0.000203
8/2/2016	0.005					
8/3/2016			0.00214 (J)			
9/20/2016	0.005					
9/21/2016			0.00112 (J)			
9/26/2016				0.00317 (J)		
9/27/2016					0.00246 (J)	<0.000203
10/25/2016	0.005		0.005			
10/31/2016					0.00261 (J)	
11/1/2016						<0.000203
11/2/2016				0.00321 (J)		
12/13/2016	0.005		0.005			
1/11/2017				0.00286 (J)	0.00291 (J)	
1/12/2017						<0.000203
2/6/2017			0.00111 (J)			
2/8/2017	0.005					
2/13/2017				0.0024 (J)		<0.000203
2/14/2017					0.00272 (J)	
3/28/2017			0.00109 (J)			
3/29/2017	0.005					
4/3/2017				0.00232 (J)		
4/4/2017						<0.000203
4/6/2017					0.00235 (J)	
4/24/2017			0.005			
4/26/2017	0.005					
5/15/2017				0.00183 (J)		
5/16/2017						<0.000203
5/17/2017					0.00213 (J)	
6/7/2017	<0.005		<0.005			
6/13/2017					0.00218 (J)	
6/14/2017				0.00151 (J)		<0.000203
1/31/2018					0.00229 (J)	
2/1/2018				0.00284 (J)		<0.000203
2/19/2018			<0.005			
2/20/2018	<0.005					
5/8/2018						<0.000203
5/9/2018				0.00109 (J)		
5/10/2018					0.00215 (J)	
5/15/2018	<0.005		<0.005			
10/8/2018					0.00184 (J)	
10/9/2018				0.00174 (J)		<0.000203
10/16/2018			<0.005			
10/17/2018	<0.005					
2/20/2019		0.0011 (J)				
4/16/2019	<0.005		<0.005			
4/24/2019					0.00193 (J)	
5/1/2019				0.00229 (J)		<0.000203
8/27/2019				0.00211 (J)		
8/28/2019						<0.000203
8/29/2019					0.00177 (J)	
9/24/2019		0.00149 (J)	<0.005			
3/3/2020						<0.000203

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2023 11:32 AM
 Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.0058	0.0018 (J)	
3/18/2020			<0.005			
3/25/2020	<0.005					
9/21/2020			<0.005			
9/23/2020	<0.005					
10/19/2020				0.00351 (J)	0.00186 (J)	
10/20/2020						<0.000203
2/2/2021	0.000243		0.000228			
4/20/2021				0.00225		
4/21/2021						8.14E-05 (J)
5/3/2021					0.00142	
8/2/2021	0.00013 (J)					
8/10/2021			0.00039			
9/8/2021				0.00219		
9/14/2021						8E-05 (J)
9/15/2021					0.0016	
2/14/2022	0.00047					
2/16/2022			0.00028			
3/15/2022				0.0021		
3/16/2022						0.00012 (J)
3/17/2022					0.061	
8/2/2022			0.00016 (J)			
8/9/2022	0.000807					
9/19/2022				0.00247		
9/20/2022						0.00012 (J)
9/26/2022					0.0323	
3/22/2023	0.000293					
3/27/2023			0.000162 (J)			
5/2/2023				0.00202		
5/3/2023					0.0241	<0.000203
9/11/2023	0.000554					
9/18/2023			0.000244			
10/9/2023					0.027	
10/11/2023				0.001		<0.000203

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.005	0.00159 (J)
7/20/2016	0.00169 (J)					
9/26/2016					<0.005	<0.005
9/27/2016	0.00187 (J)					
10/31/2016					<0.005	<0.005
11/1/2016	0.00203 (J)					
1/9/2017					<0.005	<0.005
1/11/2017	0.00196 (J)					
2/14/2017					<0.005	<0.005
2/15/2017	0.00189 (J)					
4/3/2017						<0.005
4/4/2017	0.00186 (J)				<0.005	
5/15/2017	0.00167 (J)					
5/16/2017					<0.005	<0.005
6/12/2017					<0.005	<0.005
6/14/2017	0.00161 (J)					
1/30/2018	0.00189 (J)					
1/31/2018					<0.005	
2/1/2018						<0.005
5/7/2018					<0.005	<0.005
5/8/2018	0.00222 (J)					
10/8/2018	0.0024 (J)					
10/9/2018					<0.005	<0.005
4/24/2019					<0.005	<0.005
8/28/2019	0.00297 (J)				<0.005	<0.005
3/3/2020						<0.005
3/4/2020					<0.005	
3/10/2020	0.00353 (J)					
10/13/2020					<0.005	<0.005
10/19/2020	0.00463 (J)					
10/20/2020		<0.005	<0.005	<0.005		
4/21/2021		0.000396	0.00109	0.000288		0.000891
4/26/2021					0.000665	
5/5/2021	0.00514					
9/1/2021					0.00083	0.0009
9/7/2021	0.00507	0.00041	0.0013			
9/13/2021				0.00023		
3/8/2022						0.00073
3/9/2022		0.00066	0.00155	0.00019 (J)	0.00042	
3/17/2022	0.0078					
9/19/2022		0.000629	0.00187			
9/20/2022					0.00153	0.0031
9/26/2022	0.00709				0.000183 (J)	
4/18/2023		0.00066	0.00135			
4/19/2023					0.000728	0.000509
5/2/2023					0.000139 (J)	
5/3/2023	0.00828					
9/26/2023		0.00051	0.00102		0.00103	
10/2/2023	0.00938					
10/11/2023					0.000171 (J)	0.00334

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.00267 (J)		
9/28/2016				0.00163 (J)		
11/1/2016				0.00197 (J)		
1/11/2017				0.00168 (J)		
2/14/2017				0.00175 (J)		
4/4/2017				0.00148 (J)		
5/16/2017				0.00156 (J)		
6/14/2017				0.00154 (J)		
2/1/2018				0.0013 (J)		
5/9/2018				0.00121 (J)		
10/9/2018				0.00156 (J)		
3/6/2019	<0.000203	<0.005			<0.005	<0.005
5/1/2019				0.0039 (J)		
8/27/2019	<0.000203	<0.005		0.00194 (J)		
9/3/2019					0.00104 (J)	<0.005
3/3/2020				0.00238 (J)		
3/9/2020			0.00384 (J)			
3/10/2020	<0.000203	<0.005			<0.005	<0.005
10/13/2020	<0.000203	<0.005				
10/14/2020			0.00247 (J)			
10/19/2020					0.00105 (J)	<0.005
10/21/2020				0.00346 (J)		
4/20/2021			0.000986			
4/26/2021				0.00346		
4/28/2021					0.00106	
5/3/2021						0.00022
5/5/2021	0.00115	0.000269				
9/7/2021	0.00011 (J)					
9/8/2021					0.00094	0.00027
9/13/2021			0.00042			
9/14/2021		0.00024		0.0043		
3/8/2022	<0.000203	0.00028				
3/9/2022			0.00061		0.00087	0.0003
3/16/2022				0.00394		
9/14/2022	<0.000203		0.00101			
9/21/2022		0.000182 (J)			0.00089	0.000276
9/26/2022				0.00401		
4/19/2023	<0.000203				0.000878	0.000367
5/1/2023			0.000273			
5/2/2023		0.000179 (J)		0.00514		
10/3/2023		0.000216				0.000362
10/4/2023					0.00112	
10/10/2023	<0.000203		0.000964	0.00403		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.00106 (J)					
8/28/2019	0.00129 (J)					
3/9/2020	0.00472 (J)			<0.005		
10/13/2020	0.00366 (J)					
10/14/2020				0.00129 (J)	<0.005	0.0014 (J)
10/20/2020			0.00319 (J)			
10/26/2020	0.00188 (J)					
4/20/2021			0.00111	0.000373		
4/27/2021	0.00645					0.00164
4/28/2021	0.00292					
5/5/2021					0.000426	
6/16/2021	0.0047	0.00055	0.00068			0.0019
9/14/2021	0.001	0.00273				
9/15/2021			0.00047	0.00038	0.00052	0.00416
3/15/2022					0.00038	
3/16/2022			0.00026	0.00037		0.00449
3/17/2022	0.00137	0.00354				
9/14/2022					0.000219	0.00612
9/21/2022		0.00445	0.000184 (J)	0.000564		
9/26/2022	0.00117					
5/1/2023					0.000474	0.00459
5/2/2023	0.00323					
5/3/2023		0.00258	0.000154 (J)	0.000218		
10/4/2023			0.000113 (J)	0.000182 (J)	0.000572	0.0044
10/11/2023	0.000954					
10/12/2023		0.00293				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.00362 (J)
3/9/2020		0.00423 (J)				
3/10/2020			0.00737		0.00312 (J)	
10/14/2020						0.0047 (J)
10/15/2020					0.00527	
10/19/2020		0.00281 (J)				
10/20/2020			0.00242 (J)			
10/26/2020	<0.005					
10/27/2020				0.00133 (J)		
4/20/2021		0.00173				
4/21/2021			0.000974			
4/27/2021				0.000721		
4/28/2021					0.000881	
5/3/2021	0.00031					0.00436
9/8/2021						0.00429
9/13/2021		0.00164	0.00049	0.00048		
9/14/2021	0.00027				0.00092	
3/9/2022					0.0008	
3/14/2022	0.00027	0.00135				0.00358
3/16/2022			0.0011	0.0004		
9/19/2022			0.000763			
9/20/2022		0.00201		0.00044		0.0048
9/21/2022	0.000147 (J)				0.00103	
4/19/2023		0.000934			0.00091	
4/24/2023				0.000636		
4/25/2023	0.000307					0.00425
4/26/2023			0.000359			
9/27/2023	0.000242	0.00108				
10/4/2023					0.00119	0.00289
10/9/2023				0.000797		
10/11/2023			0.00042			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.0105	0.00172 (J)
9/26/2016					0.0106	0.00246 (J)
10/31/2016					0.0111	0.00224 (J)
1/9/2017					0.0119	0.00251 (J)
2/13/2017					0.0122	0.00179 (J)
4/3/2017					0.0115	0.00128 (J)
5/16/2017					0.0103	0.00124 (J)
6/12/2017					0.0108	0.0018 (J)
1/29/2018					0.0119	0.00264 (J)
5/10/2018					0.0111	0.00262 (J)
10/9/2018					0.01	0.00206 (J)
4/22/2019						0.00275 (J)
4/29/2019					0.0108	
8/27/2019					0.0111	0.00222 (J)
3/3/2020					0.0118	0.00199 (J)
3/9/2020	0.00719			0.0113		
3/10/2020		0.0139				
10/13/2020		0.0146			0.015	<0.005
10/19/2020				0.00192 (J)		
10/21/2020	<0.005					
10/27/2020			0.00333 (J)			
4/21/2021	0.0013		0.00666			
5/3/2021				0.00127		
5/5/2021		0.0117			0.0116	0.000735
9/7/2021		0.0129			0.011	0.00088
9/13/2021	0.00087		0.00601			
9/15/2021				0.00127		
3/8/2022		0.0118				
3/9/2022	0.00067					
3/16/2022			0.00633		0.0107	0.00074
3/17/2022				0.00148		
9/14/2022			0.00426			
9/19/2022	0.000502	0.0135			0.0128	0.000783
9/27/2022				0.000844		
4/18/2023		0.0112		0.00073		
4/25/2023			0.00204			
5/2/2023	0.00211				0.0126	0.00114
10/3/2023					0.0136	0.000607
10/9/2023				0.000842		
10/10/2023	0.00223	0.0138				
10/12/2023			0.00325			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.005					
7/26/2016			0.0112	<0.000203		
9/27/2016	<0.005					
9/28/2016			0.00955	<0.000203		
11/1/2016	<0.005			<0.000203		
11/2/2016			0.0129			
1/9/2017	<0.005			<0.000203		
1/10/2017			0.0135			
2/13/2017	<0.005			<0.000203		
2/14/2017			0.0141			
4/3/2017			0.0141	<0.000203		
4/4/2017	<0.005					
5/16/2017	<0.005			<0.000203		
5/17/2017			0.0138			
6/12/2017	<0.005		0.0118	<0.000203		
1/29/2018	<0.005					
2/1/2018			0.0142	<0.000203		
5/9/2018	<0.005		0.0114	<0.000203		
10/8/2018	<0.005		0.0109	<0.000203		
3/5/2019		0.00167 (J)			0.00146 (J)	
4/23/2019			0.0122	<0.000203		
4/29/2019	<0.005					
8/27/2019	<0.005	0.00149 (J)				
8/28/2019			0.0107	<0.000203	0.0151	
3/2/2020			0.0122			
3/3/2020				<0.000203	0.0236	
3/4/2020	<0.005	<0.005				
10/14/2020	<0.005	<0.005				
10/19/2020					0.00307 (J)	
10/20/2020				<0.000203		0.00547
10/21/2020			0.0145			
4/26/2021	0.000368	0.000554				
4/27/2021						0.00188
4/28/2021				0.000104 (J)	0.00239	
5/3/2021			0.0111			
9/1/2021	0.0004	0.00081		<0.000203		0.00098
9/8/2021			0.0112		0.0016	
3/8/2022						0.00061
3/14/2022			0.00987			
3/15/2022	0.0002 (J)	0.00165				
3/16/2022				0.00012 (J)	0.00161	
9/20/2022			0.00931			0.000694
9/21/2022				<0.000203		
9/26/2022	0.000331	0.00375			0.00139	
4/24/2023					0.0012	0.000465
4/25/2023			0.00879	<0.000203		
5/2/2023	0.000146 (J)	0.000706				
10/3/2023				0.00086	0.000981	0.000432
10/4/2023			0.0093			
10/10/2023	0.000178 (J)					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.00314 (J)
9/28/2016				0.00629
11/2/2016				0.00438 (J)
1/12/2017				0.0039 (J)
2/13/2017				0.00443 (J)
4/3/2017				0.00206 (J)
5/17/2017				0.00306 (J)
6/12/2017				0.00203 (J)
2/1/2018				0.00181 (J)
5/9/2018				0.00291 (J)
10/8/2018				0.00166 (J)
4/23/2019				<0.005
8/29/2019				0.00123 (J)
3/2/2020				0.0013 (J)
10/15/2020		<0.005	0.0016 (J)	
10/20/2020	0.00251 (J)			
10/21/2020				0.00137 (J)
4/27/2021	0.00254	0.000587	0.00112	
5/3/2021				0.000109 (J)
9/1/2021	0.0022	0.00056	0.0009	
9/8/2021				0.00021
3/8/2022	0.00177	0.00086	0.00079	
3/14/2022				9E-05 (J)
9/20/2022	0.00182			0.00031
9/21/2022		0.000632	0.000807	
4/24/2023	0.00156			
4/25/2023				0.000191 (J)
5/3/2023		0.000541	0.000634	
9/27/2023		0.00051	0.00076	
10/3/2023	0.00172			
10/4/2023				0.000339

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.0656	0.0185	0.052
8/2/2016	0.184					
8/3/2016			0.0274			
9/20/2016	0.153					
9/21/2016			0.0811			
9/26/2016				0.041		
9/27/2016					0.0131	0.0398
10/25/2016	0.176		0.0576			
10/31/2016					0.0124	
11/1/2016						0.0375
11/2/2016				0.0578		
12/13/2016	0.184		0.0241			
1/11/2017				0.0603	0.0122	
1/12/2017						0.0291
2/6/2017			0.0747			
2/8/2017	0.189					
2/13/2017				0.0946		0.0329
2/14/2017					0.0151	
3/28/2017			0.0183			
3/29/2017	0.184					
4/3/2017				0.0996		
4/4/2017						0.0292
4/6/2017					0.0116	
4/24/2017			0.04			
4/26/2017	0.177					
5/15/2017				0.0753		
5/16/2017						0.0247
5/17/2017					0.0132	
6/7/2017	0.164		0.00769 (J)			
6/13/2017					0.0131	
6/14/2017				0.0821		0.0263
1/31/2018					0.0138	
2/1/2018				0.0814		0.0366
2/19/2018			0.00762 (J)			
2/20/2018	0.165					
5/8/2018						0.0347
5/9/2018				0.116		
5/10/2018					0.0142	
5/15/2018	0.172		0.00701 (J)			
10/8/2018					0.0126	
10/9/2018				0.0933		0.0322
10/16/2018			0.0094 (J)			
10/17/2018	0.165					
2/20/2019		0.191				
4/16/2019	0.16		0.00459 (J)			
4/24/2019					0.0154	
5/1/2019				0.0672		0.04
8/27/2019				0.0555		
8/28/2019						0.0387
8/29/2019					0.0185	
9/24/2019		0.208	0.0434			
3/3/2020						0.029

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2023 11:32 AM
 Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.0285	0.0175	
3/18/2020			0.00507 (J)			
3/25/2020	0.314					
9/21/2020			0.026			
9/23/2020	0.299					
10/19/2020				0.0295	0.0168	
10/20/2020						0.0414
2/2/2021	0.308		0.0068			
4/20/2021				0.0454		
4/21/2021						0.0401
5/3/2021					0.0147	
8/2/2021	0.353					
8/10/2021			0.00805			
9/8/2021				0.101		
9/14/2021						0.0392
9/15/2021					0.017	
2/14/2022	0.315					
2/16/2022			0.00763			
3/15/2022				0.12		
3/16/2022						0.031
3/17/2022					0.0106	
8/2/2022			0.0116			
8/9/2022	0.292					
9/19/2022				0.199		
9/20/2022						0.0318
9/26/2022					0.0169	
3/22/2023	0.289					
3/27/2023			0.00644			
5/2/2023				0.148		
5/3/2023					0.0162	0.0218
9/11/2023	0.288					
9/18/2023			0.0289			
10/9/2023					0.0231	
10/11/2023				0.189		0.0433

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					0.125	0.044
7/20/2016	0.0243					
9/26/2016					0.131	0.0367
9/27/2016	0.0273					
10/31/2016					0.101	0.0277
11/1/2016	0.0211					
1/9/2017					0.0952	0.0323
1/11/2017	0.0208					
2/14/2017					0.106	0.0391
2/15/2017	0.0227					
4/3/2017						0.0245
4/4/2017	0.021				0.0962	
5/15/2017	0.0229					
5/16/2017					0.1	0.0276
6/12/2017					0.08	0.0242
6/14/2017	0.0221					
1/30/2018	0.0224					
1/31/2018					0.07	
2/1/2018						0.0289
5/7/2018					0.071	0.0264
5/8/2018	0.0194					
10/8/2018	0.0167					
10/9/2018					0.0588	0.0271
4/24/2019					0.0765	0.0252
8/28/2019	0.0177				0.0424	0.0208
3/3/2020						0.03
3/4/2020					0.0544	
3/10/2020	0.015					
10/13/2020					0.0522	0.0322
10/19/2020	0.0157					
10/20/2020		0.144	0.0466	0.116		
4/21/2021		0.104	0.0286	0.0998		0.02
4/26/2021					0.0308	
5/5/2021	0.0136					
9/1/2021					0.0298	0.0243
9/7/2021	0.0191	0.0749	0.0277			
9/13/2021				0.104		
3/8/2022						0.0206
3/9/2022		0.0618	0.0216	0.101	0.0275	
3/17/2022	0.0149					
9/19/2022		0.0576	0.019			
9/20/2022					0.0414	0.0243
9/26/2022	0.019			0.1		
4/18/2023		0.0494	0.0163			
4/19/2023					0.0236	0.0189
5/2/2023				0.101		
5/3/2023	0.0176					
9/26/2023		0.0562	0.0172		0.0307	
10/2/2023	0.0192					
10/11/2023				0.109		0.0246

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.0266		
9/28/2016				0.0246		
11/1/2016				0.0186		
1/11/2017				0.0157		
2/14/2017				0.0183		
4/4/2017				0.016		
5/16/2017				0.0162		
6/14/2017				0.016		
2/1/2018				0.016		
5/9/2018				0.0143		
10/9/2018				0.0136		
3/6/2019	0.65	0.0293			0.0486	0.0711
5/1/2019				0.0164		
8/27/2019	0.495	0.0361		0.0177		
9/3/2019					0.0361	0.0425
3/3/2020				0.0172		
3/9/2020			0.0752			
3/10/2020	0.425	0.0261			0.0267	0.0292
10/13/2020	0.444	0.0379				
10/14/2020			0.0769			
10/19/2020					0.0276	0.0283
10/21/2020				0.0185		
4/20/2021			0.0976			
4/26/2021				0.0167		
4/28/2021					0.025	
5/3/2021						0.027
5/5/2021	1.68	0.0484				
9/7/2021	0.511					
9/8/2021					0.028	0.0283
9/13/2021			0.0673			
9/14/2021		0.0301		0.0197		
3/8/2022	0.622	0.0258				
3/9/2022			0.0604		0.0245	0.0263
3/16/2022				0.0147		
9/14/2022	0.196		0.129			
9/21/2022		0.0452			0.0273	0.029
9/26/2022				0.0164		
4/19/2023	0.628				0.0411	0.0283
5/1/2023			0.122			
5/2/2023		0.0402		0.0175		
10/3/2023		0.0586				0.0352
10/4/2023					0.0287	
10/10/2023	0.141		0.087	0.0164		

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.0629					
8/28/2019	0.314					
3/9/2020	0.469			11		
10/13/2020	0.381					
10/14/2020				0.122	12.4	9.8 (RA)
10/20/2020			0.198			
10/26/2020		4.33				
4/20/2021			0.0624	0.0638		
4/27/2021		2.59				6.89 (RA)
4/28/2021	0.25					
5/5/2021					11.9	
6/16/2021		2.96	0.0602	0.074		6.51
9/14/2021	0.147	4.49				
9/15/2021			0.0489	0.0635	12.2	6.53
3/15/2022					11.7	
3/16/2022			0.0367	0.053		6.68
3/17/2022	0.142	2.95				
9/14/2022					12.4	5.09
9/21/2022		1.14	0.0502	0.0517		
9/26/2022	0.133					
5/1/2023					12.8	6.16
5/2/2023	0.189					
5/3/2023		0.183	0.036	0.0472		
10/4/2023			0.101	0.0472	11.7	2.12
10/11/2023	0.134					
10/12/2023		0.302				

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.0326
3/9/2020		0.0658				
3/10/2020			0.0503		0.367	
10/14/2020						0.0381
10/15/2020					0.584	
10/19/2020		0.0429				
10/20/2020			0.0468			
10/26/2020	0.101					
10/27/2020				0.0585		
4/20/2021		0.0447				
4/21/2021			0.0266			
4/27/2021				0.045		
4/28/2021					0.522	
5/3/2021	0.0893					0.0324
9/8/2021						0.0369
9/13/2021		0.0484	0.0207	0.0443		
9/14/2021	0.091				0.585	
3/9/2022					0.492	
3/14/2022	0.0875	0.0452				0.0317
3/16/2022			0.0214	0.0361		
9/19/2022			0.0216			
9/20/2022		0.055		0.0376		0.0341
9/21/2022	0.0777				0.508	
4/19/2023		0.0436			0.401	
4/24/2023				0.035		
4/25/2023	0.095					0.0311
4/26/2023			0.0195			
9/27/2023	0.0439	0.0555				
10/4/2023					0.563	0.0328
10/9/2023				0.0355		
10/11/2023			0.0192			

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.032	0.083
9/26/2016					0.0222	0.0616
10/31/2016					0.0235	0.073
1/9/2017					0.0229	0.0791
2/13/2017					0.0259	0.101
4/3/2017					0.0244	0.109
5/16/2017					0.0229	0.108
6/12/2017					0.0246	0.0919
1/29/2018					0.0282	0.118
5/10/2018					0.0243	0.133
10/9/2018					0.0234	0.121
4/22/2019						0.447
4/29/2019					0.0404	
8/27/2019					0.0334	0.395
3/3/2020					0.0304	0.347
3/9/2020	0.088			0.112		
3/10/2020		0.0349				
10/13/2020		0.0315			0.0293	0.22
10/19/2020				0.11		
10/21/2020	0.0952					
10/27/2020			0.0347			
4/21/2021	0.0853		0.0467			
5/3/2021				0.101		
5/5/2021		0.0317			0.0247	0.149
9/7/2021		0.0289			0.0259	0.17
9/13/2021	0.0692		0.0518			
9/15/2021				0.11		
3/8/2022		0.0274				
3/9/2022	0.0615					
3/16/2022			0.0536		0.0247	0.149
3/17/2022				0.103		
9/14/2022			0.0366			
9/19/2022	0.0558	0.0275			0.0339	0.146
9/27/2022				0.105		
4/18/2023		0.0275		0.0938		
4/25/2023			0.0293			
5/2/2023	0.0437				0.0292	0.149
10/3/2023					0.0346	0.13
10/9/2023				0.116		
10/10/2023	0.0493	0.0292				
10/12/2023			0.0459			

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.0165					
7/26/2016			0.0158	0.0266		
9/27/2016	0.0139					
9/28/2016			0.0153	0.0261		
11/1/2016	0.0141			0.0265		
11/2/2016			0.0154			
1/9/2017	0.0144			0.0256		
1/10/2017			0.015			
2/13/2017	0.0145			0.0286		
2/14/2017			0.017			
4/3/2017			0.0148	0.0253		
4/4/2017	0.013					
5/16/2017	0.0121			0.0268		
5/17/2017			0.0149			
6/12/2017	0.0133		0.0154	0.026		
1/29/2018	0.0137					
2/1/2018			0.0162	0.0264		
5/9/2018	0.0142		0.0144	0.0242		
10/8/2018	0.0119		0.0149	0.023		
3/5/2019		0.0219			0.0355	
4/23/2019			0.0163	0.0256		
4/29/2019	0.0146					
8/27/2019	0.014	0.0187				
8/28/2019			0.0158	0.0269	0.0614	
3/2/2020			0.0155			
3/3/2020				0.0257	0.0275	
3/4/2020	0.0137	0.019				
10/14/2020	0.0127	0.0179				
10/19/2020					0.0597	
10/20/2020				0.0252		0.0331
10/21/2020			0.0173			
4/26/2021	0.0115	0.0182				
4/27/2021						0.0262
4/28/2021				0.0241	0.0259	
5/3/2021			0.015			
9/1/2021	0.0129	0.0177		0.0251		0.028
9/8/2021			0.0175		0.0331	
3/8/2022						0.0261
3/14/2022			0.0162			
3/15/2022	0.0137	0.0183				
3/16/2022				0.0228	0.0281	
9/20/2022			0.0171			0.0287
9/21/2022				0.0217		
9/26/2022	0.0165	0.0186			0.0343	
4/24/2023					0.0301	0.0277
4/25/2023			0.0182	0.0235		
5/2/2023	0.0178	0.0316				
10/3/2023				0.0241	0.042	0.0281
10/4/2023			0.0189			
10/10/2023	0.0194					

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.11
9/28/2016				0.0644
11/2/2016				0.0781
1/12/2017				0.0582
2/13/2017				0.0612
4/3/2017				0.166
5/17/2017				0.11
6/12/2017				0.127
2/1/2018				0.144
5/9/2018				0.131
10/8/2018				0.111
4/23/2019				0.176
8/29/2019				0.25
3/2/2020				0.165
10/15/2020		0.0408	0.0274	
10/20/2020	0.0466			
10/21/2020				0.166
4/27/2021	0.0421	0.0368	0.0184	
5/3/2021				0.248
9/1/2021	0.043	0.0394	0.0172	
9/8/2021				0.236
3/8/2022	0.0403	0.0393	0.0169	
3/14/2022				0.267
9/20/2022	0.0384			0.222
9/21/2022		0.0208	0.0186	
4/24/2023	0.0394			
4/25/2023				0.217
5/3/2023		0.0217	0.0209	
9/27/2023		0.0202	0.0208	
10/3/2023	0.0396			
10/4/2023				0.223

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.001015	<0.001015	<0.001015
8/2/2016	0.003					
8/3/2016			0.003			
9/20/2016	0.003					
9/21/2016			0.003			
9/26/2016				<0.001015		
9/27/2016					<0.001015	<0.001015
10/25/2016	0.003		0.003			
10/31/2016					<0.001015	
11/1/2016						<0.001015
11/2/2016				<0.001015		
12/13/2016	0.003		0.003			
1/11/2017				<0.001015	<0.001015	
1/12/2017						<0.001015
2/6/2017			0.003			
2/8/2017	0.003					
2/13/2017				<0.001015		<0.001015
2/14/2017					<0.001015	
3/28/2017			0.003			
3/29/2017	0.003					
4/3/2017				<0.001015		
4/4/2017						<0.001015
4/6/2017					<0.001015	
4/24/2017			0.003			
4/26/2017	0.003					
5/15/2017				<0.001015		
5/16/2017						<0.001015
5/17/2017					<0.001015	
6/7/2017	<0.003		<0.001015			
6/13/2017					<0.001015	
6/14/2017				<0.001015		<0.001015
1/31/2018					<0.001015	
2/1/2018				<0.001015		<0.001015
2/19/2018			<0.001015			
2/20/2018	<0.003					
5/8/2018						<0.001015
5/9/2018				<0.001015		
5/10/2018					<0.001015	
5/15/2018	<0.003		<0.001015			
10/8/2018					<0.001015	
10/9/2018				<0.001015		<0.001015
10/16/2018			<0.001015			
10/17/2018	<0.003					
2/20/2019		<0.001015				
4/16/2019	<0.003		<0.001015			
4/24/2019					<0.001015	
5/1/2019				<0.001015		<0.001015
8/27/2019				<0.001015		
8/28/2019						<0.001015
8/29/2019					<0.001015	
9/24/2019		<0.001015	<0.001015			
3/3/2020						<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2023 11:32 AM
Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.001015	<0.001015	
3/18/2020			<0.001015			
3/25/2020	<0.001015					
9/21/2020			<0.001015			
9/23/2020	<0.001015					
10/19/2020				<0.001015	<0.001015	
10/20/2020						<0.001015
2/2/2021	<0.001015		<0.001015			
4/20/2021				<0.001015		
4/21/2021						<0.001015
5/3/2021					<0.001015	
8/2/2021	<0.001015					
8/10/2021			<0.001015			
9/8/2021				<0.001015		
9/14/2021						<0.001015
9/15/2021					<0.001015	
2/14/2022	<0.001015					
2/16/2022			<0.001015			
3/15/2022				<0.001015		
3/16/2022						<0.001015
3/17/2022					<0.001015	
8/2/2022			<0.001015			
8/9/2022	<0.001015					
9/19/2022				<0.001015		
9/20/2022						<0.001015
9/26/2022					<0.001015	
3/22/2023	<0.001015					
3/27/2023			<0.001015			
5/2/2023				<0.001015		
5/3/2023					<0.001015	<0.001015
9/11/2023	<0.001015					
9/18/2023			<0.001015			
10/9/2023					<0.001015	
10/11/2023				<0.001015		<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.001015	<0.001015
7/20/2016	<0.001015					
9/26/2016					<0.001015	<0.001015
9/27/2016	<0.001015					
10/31/2016					<0.001015	<0.001015
11/1/2016	<0.001015					
1/9/2017					<0.001015	<0.001015
1/11/2017	<0.001015					
2/14/2017					<0.001015	<0.001015
2/15/2017	<0.001015					
4/3/2017						<0.001015
4/4/2017	<0.001015				<0.001015	
5/15/2017	<0.001015					
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
6/14/2017	<0.001015					
1/30/2018	<0.001015					
1/31/2018					<0.001015	
2/1/2018						<0.001015
5/7/2018					<0.001015	<0.001015
5/8/2018	<0.001015					
10/8/2018	<0.001015					
10/9/2018					<0.001015	<0.001015
4/24/2019					<0.001015	<0.001015
8/28/2019	<0.001015				<0.001015	<0.001015
3/3/2020						<0.001015
3/4/2020					<0.001015	
3/10/2020	<0.001015					
10/13/2020					<0.001015	<0.001015
10/19/2020	<0.001015					
10/20/2020		<0.001015	<0.001015	<0.001015		
4/21/2021		<0.001015	<0.001015	<0.001015		<0.001015
4/26/2021					<0.001015	
5/5/2021	<0.001015					
9/1/2021					<0.001015	<0.001015
9/7/2021	<0.001015	<0.001015	0.00166			
9/13/2021				<0.001015		
3/8/2022						<0.001015
3/9/2022		<0.001015	0.00171	<0.001015	<0.001015	
3/17/2022	<0.001015					
9/19/2022		<0.001015	0.00241			
9/20/2022					<0.001015	<0.001015
9/26/2022	<0.001015				<0.001015	
4/18/2023		<0.001015	0.00244			
4/19/2023					<0.001015	<0.001015
5/2/2023					<0.001015	
5/3/2023	<0.001015					
9/26/2023		<0.001015	0.00188		<0.001015	
10/2/2023	<0.001015					
10/11/2023					<0.001015	<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.001015		
9/28/2016				<0.001015		
11/1/2016				<0.001015		
1/11/2017				<0.001015		
2/14/2017				<0.001015		
4/4/2017				<0.001015		
5/16/2017				<0.001015		
6/14/2017				<0.001015		
2/1/2018				<0.001015		
5/9/2018				<0.001015		
10/9/2018				<0.001015		
3/6/2019	<0.001015	<0.001015			<0.001015	<0.001015
5/1/2019				<0.001015		
8/27/2019	<0.001015	<0.001015		<0.001015		
9/3/2019					<0.001015	<0.001015
3/3/2020				<0.001015		
3/9/2020			<0.001015			
3/10/2020	<0.001015	<0.001015			<0.001015	<0.001015
10/13/2020	<0.001015	<0.001015				
10/14/2020			<0.001015			
10/19/2020					<0.001015	<0.001015
10/21/2020				<0.001015		
4/20/2021			<0.001015			
4/26/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021						<0.001015
5/5/2021	0.000633 (J)	<0.001015				
9/7/2021	<0.001015					
9/8/2021					<0.001015	<0.001015
9/13/2021			<0.001015			
9/14/2021		<0.001015		<0.001015		
3/8/2022	<0.001015	<0.001015				
3/9/2022			<0.001015		<0.001015	<0.001015
3/16/2022				<0.001015		
9/14/2022	<0.001015		<0.001015			
9/21/2022		<0.001015			<0.001015	<0.001015
9/26/2022				<0.001015		
4/19/2023	<0.001015				<0.001015	<0.001015
5/1/2023			<0.001015			
5/2/2023		<0.001015		<0.001015		
10/3/2023		<0.001015				<0.001015
10/4/2023					<0.001015	
10/10/2023	<0.001015		<0.001015	<0.001015		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.001015					
8/28/2019	<0.001015					
3/9/2020	<0.001015			<0.001015		
10/13/2020	<0.001015					
10/14/2020			<0.001015	<0.001015	<0.001015	
10/20/2020		<0.001015				
10/26/2020	<0.001015					
4/20/2021		<0.001015	<0.001015			
4/27/2021	<0.001015					<0.001015
4/28/2021	<0.001015					
5/5/2021				<0.001015		
6/16/2021	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
9/14/2021	<0.001015	<0.001015				
9/15/2021			<0.001015	<0.001015	<0.001015	<0.001015
3/15/2022					<0.001015	
3/16/2022			<0.001015	<0.001015		<0.001015
3/17/2022	<0.001015	<0.001015				
9/14/2022					<0.001015	<0.001015
9/21/2022		<0.001015	<0.001015	<0.001015		
9/26/2022	<0.001015					
5/1/2023				<0.001015	<0.001015	
5/2/2023	<0.001015					
5/3/2023		<0.001015	<0.001015	<0.001015		
10/4/2023			<0.001015	<0.001015	<0.001015	<0.001015
10/11/2023	<0.001015					
10/12/2023		<0.001015				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.001015
3/9/2020		<0.001015				
3/10/2020			<0.001015		<0.001015	
10/14/2020						<0.001015
10/15/2020					<0.001015	
10/19/2020		<0.001015				
10/20/2020			<0.001015			
10/26/2020	<0.001015					
10/27/2020				<0.001015		
4/20/2021		<0.001015				
4/21/2021			<0.001015			
4/27/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021	<0.001015					<0.001015
9/8/2021						<0.001015
9/13/2021		<0.001015	<0.001015	<0.001015		
9/14/2021	<0.001015				<0.001015	
3/9/2022					<0.001015	
3/14/2022	<0.001015	<0.001015				<0.001015
3/16/2022			<0.001015	<0.001015		
9/19/2022			<0.001015			
9/20/2022		<0.001015		<0.001015		<0.001015
9/21/2022	<0.001015				<0.001015	
4/19/2023		<0.001015			<0.001015	
4/24/2023				<0.001015		
4/25/2023	<0.001015					<0.001015
4/26/2023			<0.001015			
9/27/2023	<0.001015	<0.001015				
10/4/2023					<0.001015	<0.001015
10/9/2023				<0.001015		
10/11/2023			<0.001015			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.001015	<0.001015
9/26/2016					<0.001015	<0.001015
10/31/2016					<0.001015	<0.001015
1/9/2017					<0.001015	<0.001015
2/13/2017					<0.001015	<0.001015
4/3/2017					<0.001015	<0.001015
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
1/29/2018					<0.001015	<0.001015
5/10/2018					<0.001015	<0.001015
10/9/2018					<0.001015	<0.001015
4/22/2019						<0.001015
4/29/2019					<0.001015	
8/27/2019					<0.001015	<0.001015
3/3/2020					<0.001015	<0.001015
3/9/2020	<0.001015			<0.001015		
3/10/2020		<0.001015				
10/13/2020		<0.001015			<0.001015	<0.001015
10/19/2020				<0.001015		
10/21/2020	<0.001015					
10/27/2020			<0.001015			
4/21/2021	<0.001015		<0.001015			
5/3/2021				<0.001015		
5/5/2021		<0.001015			<0.001015	<0.001015
9/7/2021		<0.001015			<0.001015	<0.001015
9/13/2021	<0.001015		<0.001015			
9/15/2021				<0.001015		
3/8/2022		<0.001015				
3/9/2022	<0.001015					
3/16/2022			<0.001015		<0.001015	<0.001015
3/17/2022				<0.001015		
9/14/2022			<0.001015			
9/19/2022	<0.001015	<0.001015			<0.001015	<0.001015
9/27/2022				<0.001015		
4/18/2023		<0.001015		<0.001015		
4/25/2023			<0.001015			
5/2/2023	<0.001015				<0.001015	<0.001015
10/3/2023					<0.001015	<0.001015
10/9/2023				<0.001015		
10/10/2023	<0.001015	<0.001015				
10/12/2023			<0.001015			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.001015					
7/26/2016			<0.001015	<0.001015		
9/27/2016	<0.001015					
9/28/2016			<0.001015	<0.001015		
11/1/2016	<0.001015			<0.001015		
11/2/2016			<0.001015			
1/9/2017	<0.001015			<0.001015		
1/10/2017			<0.001015			
2/13/2017	<0.001015			<0.001015		
2/14/2017			<0.001015			
4/3/2017			<0.001015	<0.001015		
4/4/2017	<0.001015					
5/16/2017	<0.001015			<0.001015		
5/17/2017			<0.001015			
6/12/2017	<0.001015		<0.001015	<0.001015		
1/29/2018	<0.001015					
2/1/2018			<0.001015	<0.001015		
5/9/2018	<0.001015		<0.001015	<0.001015		
10/8/2018	<0.001015		<0.001015	<0.001015		
3/5/2019		<0.001015			<0.001015	
4/23/2019			<0.001015	<0.001015		
4/29/2019	<0.001015					
8/27/2019	<0.001015	<0.001015				
8/28/2019			<0.001015	<0.001015	<0.001015	
3/2/2020			<0.001015			
3/3/2020				<0.001015	<0.001015	
3/4/2020	<0.001015	<0.001015				
10/14/2020	<0.001015	<0.001015				
10/19/2020					<0.001015	
10/20/2020				<0.001015		<0.001015
10/21/2020			<0.001015			
4/26/2021	<0.001015	<0.001015				
4/27/2021						<0.001015
4/28/2021				<0.001015	<0.001015	
5/3/2021			<0.001015			
9/1/2021	<0.001015	<0.001015		<0.001015		<0.001015
9/8/2021			<0.001015		<0.001015	
3/8/2022						<0.001015
3/14/2022			<0.001015			
3/15/2022	<0.001015	<0.001015				
3/16/2022				<0.001015	<0.001015	
9/20/2022			<0.001015			<0.001015
9/21/2022				<0.001015		
9/26/2022	<0.001015	<0.001015			<0.001015	
4/24/2023					<0.001015	<0.001015
4/25/2023			<0.001015	<0.001015		
5/2/2023	<0.001015	<0.001015				
10/3/2023				<0.001015	<0.001015	<0.001015
10/4/2023			<0.001015			
10/10/2023	<0.001015					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.001015
9/28/2016				<0.001015
11/2/2016				<0.001015
1/12/2017				<0.001015
2/13/2017				<0.001015
4/3/2017				<0.001015
5/17/2017				<0.001015
6/12/2017				<0.001015
2/1/2018				<0.001015
5/9/2018				<0.001015
10/8/2018				<0.001015
4/23/2019				<0.001015
8/29/2019				<0.001015
3/2/2020				<0.001015
10/15/2020		<0.001015	<0.001015	
10/20/2020	<0.001015			
10/21/2020				<0.001015
4/27/2021	<0.001015	<0.001015	<0.001015	
5/3/2021				<0.001015
9/1/2021	<0.001015	<0.001015	<0.001015	
9/8/2021				<0.001015
3/8/2022	<0.001015	<0.001015	<0.001015	
3/14/2022				<0.001015
9/20/2022	<0.001015			<0.001015
9/21/2022		<0.001015	<0.001015	
4/24/2023	<0.001015			
4/25/2023				<0.001015
5/3/2023		<0.001015	<0.001015	
9/27/2023		<0.001015	<0.001015	
10/3/2023	<0.001015			
10/4/2023				<0.001015

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.0978 (J)	3.36	0.0282 (J)
8/2/2016	0.1					
8/3/2016			0.0239 (J)			
9/20/2016	0.1					
9/21/2016			0.1			
9/26/2016				0.0625 (J)		
9/27/2016					3.18	0.0253 (J)
10/25/2016	0.1		0.1			
10/31/2016					3.32	
11/1/2016						0.0266 (J)
11/2/2016				0.067 (J)		
12/13/2016	0.1		0.1			
1/11/2017				0.0588 (J)	3.05	
1/12/2017						0.0268 (J)
2/6/2017			0.1			
2/8/2017	0.1					
2/13/2017				0.0561 (J)		0.0263 (J)
2/14/2017					2.87	
3/28/2017			0.1			
3/29/2017	0.1					
4/3/2017				0.0631 (J)		
4/4/2017						0.0252 (J)
4/6/2017					2.87	
4/24/2017			0.1			
4/26/2017	0.1					
5/15/2017				0.0636 (J)		
5/16/2017						0.0319 (J)
5/17/2017					2.71	
6/7/2017	<0.1		<0.1015			
6/13/2017					2.67	
6/14/2017				0.0603 (J)		0.026 (J)
8/21/2017			<0.1015			
8/22/2017	<0.1					
9/19/2017				0.0559 (J)		0.0253 (J)
9/21/2017					3.08	
5/8/2018						<0.1015
5/9/2018				0.0437 (J)		
5/10/2018					3.04	
5/15/2018	<0.1		<0.1015			
10/8/2018					3.46	
10/9/2018				0.0559 (J)		0.0262 (J)
10/16/2018			<0.1015			
10/17/2018	<0.1					
2/20/2019		0.0337 (J)				
4/16/2019	<0.1		<0.1015			
4/24/2019					3.61	
5/1/2019				<0.203		<0.1015
8/27/2019				0.0869 (J)		
8/28/2019						<0.1015
8/29/2019					4.1	
9/24/2019		0.0532 (J)	<0.1015			
3/3/2020						0.0308 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/22/2023 11:32 AM
 Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.0747 (J)	4.7	
3/18/2020			<0.1015			
3/25/2020	0.0482 (J)					
9/21/2020			<0.1015			
9/23/2020	0.0478 (J)					
10/19/2020				0.0512 (J)	4.44	
10/20/2020						0.0357 (J)
2/2/2021	0.0396 (J)		<0.1015			
4/20/2021				0.0653 (J)		
4/21/2021						<0.1015
5/3/2021					4.45	
8/2/2021	0.0368 (J)					
8/10/2021			<0.1015			
9/8/2021				0.0505 (J)		
9/14/2021						<0.1015
9/15/2021					4.8	
2/14/2022	0.0386 (J)					
2/16/2022			<0.1015			
3/15/2022				0.0528 (J)		
3/16/2022						0.0357 (J)
3/17/2022					5.81	
8/2/2022			<0.1015			
8/9/2022	0.0418 (J)					
9/19/2022				0.0597 (J)		
9/20/2022						0.0457 (J)
9/26/2022					7.39	
3/22/2023	0.0379 (J)					
3/27/2023			<0.1015			
5/2/2023				0.0572 (J)		
5/3/2023					6.84	0.0402 (J)
9/11/2023	0.0388 (J)					
9/18/2023			<0.1015			
10/9/2023					7.06	
10/11/2023				0.0595 (J)		0.033 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					0.15	2.86
7/20/2016	2.36					
9/26/2016					0.175	2.86
9/27/2016	2.14					
10/31/2016					0.204	3.25
11/1/2016	2.21					
1/9/2017					0.192	2.71
1/11/2017	2.04					
2/14/2017					0.161	2.39
2/15/2017	2.12					
4/3/2017						1.86
4/4/2017	2.51				0.147	
5/15/2017	2.54					
5/16/2017					0.168	2.67
6/12/2017					0.18	2.81
6/14/2017	2.83					
9/19/2017					0.192	3
9/21/2017	3.76					
5/7/2018					0.258	2.83
5/8/2018	5.61					
10/8/2018	6.35					
10/9/2018					0.237	2.85
4/24/2019					0.243	2.41
8/28/2019	7.06				0.863	3.18
3/3/2020						1.29
3/4/2020					0.285	
3/10/2020	7.52					
10/13/2020					0.375	2.62
10/19/2020	7.42					
10/20/2020		0.0304 (J)	0.0541 (J)	0.0773 (J)		
4/21/2021		0.0561 (J)	0.0404 (J)	0.101 (J)		2.63
4/26/2021					0.651	
5/5/2021	8.01					
9/1/2021					0.705	2.16
9/7/2021	7.19	0.0476 (J)	0.0429 (J)			
9/13/2021				0.0837 (J)		
3/8/2022						2.13
3/9/2022		0.0558 (J)	0.0421 (J)	0.081 (J)	0.445	
3/17/2022	7.07					
9/19/2022		0.0532 (J)	0.0418 (J)			
9/20/2022					1.78	2.77
9/26/2022	4.96			0.0756 (J)		
4/18/2023		0.0492 (J)	0.04 (J)			
4/19/2023					1.36	2.18
5/2/2023				0.0761 (J)		
5/3/2023	5.38					
9/26/2023		0.059 (J)	0.0417 (J)		2.31	
10/2/2023	5.12					
10/11/2023				0.0756 (J)		2.63

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.0922 (J)		
9/28/2016				0.126		
11/1/2016				0.0959 (J)		
1/11/2017				0.0976 (J)		
2/14/2017				0.147		
4/4/2017				0.121		
5/16/2017				0.167		
6/14/2017				0.159		
9/20/2017				0.148		
5/9/2018				0.145		
10/9/2018				0.15		
3/6/2019	0.0571 (J)	0.178			0.699	0.641
5/1/2019				0.24		
8/27/2019	0.0898 (J)	0.299		0.192		
9/3/2019					0.751	0.61
3/3/2020				0.167		
3/9/2020			0.132			
3/10/2020	0.0538 (J)	0.151			0.759	0.633
10/13/2020	0.0857 (J)	0.302				
10/14/2020			0.167			
10/19/2020					0.724	0.615
10/21/2020				0.316		
4/20/2021			0.193			
4/26/2021				0.173		
4/28/2021					0.735	
5/3/2021						0.562
5/5/2021	0.145	0.237				
9/7/2021	0.0842 (J)					
9/8/2021					0.741	0.557
9/13/2021			0.159			
9/14/2021		0.289		0.188		
3/8/2022	0.0797 (J)	0.194				
3/9/2022			0.158		0.759	0.491
3/16/2022				0.165		
9/14/2022	0.108		0.161			
9/21/2022		0.257			0.756	0.4
9/26/2022				0.153		
4/19/2023	0.0834 (J)				0.864	0.384
5/1/2023			0.162			
5/2/2023		0.172		0.216		
10/3/2023		0.241				0.334
10/4/2023					0.881	
10/10/2023	0.14		0.142	0.173		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.0619 (J)					
8/28/2019	0.0879 (J)					
3/9/2020	0.101			0.756		
10/13/2020	0.0973 (J)					
10/14/2020			0.134	0.762	0.706	
10/20/2020		0.173				
10/26/2020	0.149					
4/20/2021		0.135	0.0628 (J)			
4/27/2021	0.17				0.694	
4/28/2021	0.0976 (J)					
5/5/2021				0.765		
6/16/2021	0.171	0.134	0.0677 (J)		0.697	
9/14/2021	0.0892 (J)	0.153				
9/15/2021		0.122	0.062 (J)	0.736	0.673	
3/15/2022				0.709		
3/16/2022		0.121	0.0672 (J)		0.668	
3/17/2022	0.089 (J)	0.153				
9/14/2022				0.714	0.633	
9/21/2022	0.157	0.114	0.0663 (J)			
9/26/2022	0.0869 (J)					
5/1/2023				0.726	0.659	
5/2/2023	0.0986 (J)					
5/3/2023	0.118	0.12	0.0685 (J)			
10/4/2023		0.118	0.0803 (J)	0.695	0.64	
10/11/2023	0.0915 (J)					
10/12/2023	0.102					

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.608
3/9/2020		0.119				
3/10/2020			0.0912 (J)		<0.1015	
10/14/2020						0.738
10/15/2020					<0.1015	
10/19/2020		0.608				
10/20/2020			0.0673 (J)			
10/26/2020	<0.1015					
10/27/2020				0.0341 (J)		
4/20/2021		0.212				
4/21/2021			0.0481 (J)			
4/27/2021				0.0315 (J)		
4/28/2021					<0.1015	
5/3/2021	<0.1015					0.695
9/8/2021						0.776
9/13/2021		0.289	0.0312 (J)	0.0315 (J)		
9/14/2021	<0.1015				<0.1015	
3/9/2022					<0.1015	
3/14/2022	<0.1015	0.292				0.715
3/16/2022			0.0394 (J)	0.0311 (J)		
9/19/2022			0.0334 (J)			
9/20/2022		0.261		0.0368 (J)		0.92
9/21/2022	<0.1015				<0.1015	
4/19/2023		0.227			<0.1015	
4/24/2023				0.0323 (J)		
4/25/2023	<0.1015					0.851
4/26/2023			<0.1015			
9/27/2023	0.0411 (J)	0.19				
10/4/2023					<0.1015	0.874
10/9/2023				0.0322 (J)		
10/11/2023			<0.1015			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.527	0.195
9/26/2016					0.54	0.179
10/31/2016					0.586	0.19
1/9/2017					0.584	0.196
2/13/2017					0.567	0.187
4/3/2017					0.527	0.192
5/16/2017					0.477	0.178
6/12/2017					0.491	0.181
9/20/2017					0.505	0.188
5/10/2018					0.425	0.183
10/9/2018					0.471	0.202
4/22/2019						0.183 (J)
4/29/2019					0.407	
8/27/2019					0.443	0.209
3/3/2020					0.422	0.217
3/9/2020	0.148			0.0385 (J)		
3/10/2020		<0.1015				
10/13/2020		<0.1015			0.492	0.271
10/19/2020				<0.1015		
10/21/2020	0.16					
10/27/2020			0.0966 (J)			
4/21/2021	0.178		0.115			
5/3/2021				<0.1015		
5/5/2021		<0.1015			0.451	0.281
9/7/2021		<0.1015			0.499	0.276
9/13/2021	0.144		0.122			
9/15/2021				<0.1015		
3/8/2022		<0.1015				
3/9/2022	0.107					
3/16/2022			0.132		0.428	0.276
3/17/2022				<0.1015		
9/14/2022			0.112			
9/19/2022	0.12	<0.1015			0.389	0.272
9/27/2022				<0.1015		
4/18/2023		<0.1015		<0.1015		
4/25/2023			0.0994 (J)			
5/2/2023	0.127				0.324	0.245
10/3/2023					0.299	0.239
10/9/2023				<0.1015		
10/10/2023	0.138	<0.1015				
10/12/2023			0.158			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.496					
7/26/2016			0.873	0.835		
9/27/2016	0.514					
9/28/2016			0.857	0.807		
11/1/2016	0.571			0.838		
11/2/2016			0.909			
1/9/2017	0.572			0.848		
1/10/2017			0.915			
2/13/2017	0.565			0.869		
2/14/2017			0.932			
4/3/2017			0.932	0.881		
4/4/2017	0.536					
5/16/2017	0.482			0.81		
5/17/2017			0.953			
6/12/2017	0.478		0.854	0.832		
9/18/2017			0.921	0.864		
9/20/2017	0.506					
5/9/2018	0.433		0.851	0.878		
10/8/2018	0.503		0.833	0.905		
3/5/2019		0.357			0.753	
4/23/2019			0.849	0.862		
4/29/2019	0.444					
8/27/2019	0.495	0.51				
8/28/2019			0.852	0.906	0.379	
3/2/2020			0.851			
3/3/2020				0.895	0.431	
3/4/2020	0.431	0.303				
10/14/2020	0.46	0.483				
10/19/2020					0.437	
10/20/2020				0.947		0.745
10/21/2020			0.847			
4/26/2021	0.412	0.382				
4/27/2021						0.758
4/28/2021				0.923	0.472	
5/3/2021			0.864			
9/1/2021	0.46	0.452		0.918		0.768
9/8/2021			0.843		0.561	
3/8/2022						0.759
3/14/2022			0.864			
3/15/2022	0.423	0.642				
3/16/2022				0.887	0.499	
9/20/2022			0.915			0.767
9/21/2022				0.851		
9/26/2022	0.36	0.855			0.455	
4/24/2023					0.35	0.746
4/25/2023			0.961	0.865		
5/2/2023	0.382	0.33				
10/3/2023				0.573	0.207	0.75
10/4/2023			1.02			
10/10/2023	0.446					

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.434
9/28/2016				0.454
11/2/2016				0.46
1/12/2017				0.471
2/13/2017				0.473
4/3/2017				0.424
5/17/2017				0.462
6/12/2017				0.418
9/18/2017				0.428
5/9/2018				0.406
10/8/2018				0.42
4/23/2019				0.372
8/29/2019				0.319
3/2/2020				0.328
10/15/2020		<0.1015	0.11	
10/20/2020	0.726			
10/21/2020				0.328
4/27/2021	0.708	<0.1015	0.138	
5/3/2021				0.271
9/1/2021	0.72	<0.1015	0.144	
9/8/2021				0.271
3/8/2022	0.711	<0.1015	0.117	
3/14/2022				0.245
9/20/2022	0.695			0.251
9/21/2022		0.24	0.0905 (J)	
4/24/2023	0.672			
4/25/2023				0.249
5/3/2023		0.272	0.111	
9/27/2023		0.228	0.114	
10/3/2023	0.689			
10/4/2023				0.255

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.000203	<0.000203	<0.000203
8/2/2016	0.001					
8/3/2016			0.001			
9/20/2016	0.001					
9/21/2016			0.001			
9/26/2016				<0.000203		
9/27/2016					<0.000203	<0.000203
10/25/2016	0.001		0.001			
10/31/2016					<0.000203	
11/1/2016						<0.000203
11/2/2016				<0.000203		
12/13/2016	0.001		0.001			
1/11/2017				<0.000203	<0.000203	
1/12/2017						<0.000203
2/6/2017			0.001			
2/8/2017	0.001					
2/13/2017				<0.000203		<0.000203
2/14/2017					<0.000203	
3/28/2017			0.001			
3/29/2017	0.001					
4/3/2017				<0.000203		
4/4/2017						<0.000203
4/6/2017					<0.000203	
4/24/2017			0.001			
4/26/2017	0.001					
5/15/2017				<0.000203		
5/16/2017						<0.000203
5/17/2017					<0.000203	
6/7/2017	<0.001		<0.000203			
6/13/2017					<0.000203	
6/14/2017				<0.000203		<0.000203
1/31/2018					<0.000203	
2/1/2018				0.000372 (J)		<0.000203
2/19/2018			<0.000203			
2/20/2018	<0.001					
5/8/2018						<0.000203
5/9/2018				<0.000203		
5/10/2018					<0.000203	
5/15/2018	<0.001		<0.000203			
10/8/2018					<0.000203	
10/9/2018				<0.000203		<0.000203
10/16/2018			<0.000203			
10/17/2018	<0.001					
2/20/2019		<0.000203				
4/16/2019	<0.001		<0.000203			
4/24/2019					<0.000203	
5/1/2019				<0.000203		<0.000203
8/27/2019				<0.000203		
8/28/2019						<0.000203
8/29/2019					<0.000203	
9/24/2019		<0.000203	<0.000203			
3/3/2020						<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.000203	<0.000203	
3/18/2020			<0.000203			
3/25/2020	<0.000203					
9/21/2020			<0.000203			
9/23/2020	<0.000203					
10/19/2020				<0.000203	<0.000203	
10/20/2020						<0.000203
2/2/2021	<0.000203		<0.000203			
4/20/2021				<0.000203		
4/21/2021						<0.000203
5/3/2021					<0.000203	
8/2/2021	<0.000203					
8/10/2021			<0.000203			
9/8/2021				<0.000203		
9/14/2021						<0.000203
9/15/2021					<0.000203	
2/14/2022	<0.000203					
2/16/2022			<0.000203			
3/15/2022				<0.000203		
3/16/2022						<0.000203
3/17/2022					9E-05 (J)	
8/2/2022			<0.000203			
8/9/2022	<0.000203					
9/19/2022				<0.000203		
9/20/2022						<0.000203
9/26/2022					9.8E-05 (J)	
3/22/2023	<0.000203					
3/27/2023			<0.000203			
5/2/2023				<0.000203		
5/3/2023					<0.000203	<0.000203
9/11/2023	<0.000203					
9/18/2023			<0.000203			
10/9/2023					<0.000203	
10/11/2023				<0.000203		<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.000203	0.000222 (J)
7/20/2016	<0.000203					
9/26/2016					<0.000203	0.000208 (J)
9/27/2016	<0.000203					
10/31/2016					<0.000203	<0.000203
11/1/2016	<0.000203					
1/9/2017					<0.000203	<0.000203
1/11/2017	<0.000203					
2/14/2017					<0.000203	<0.000203
2/15/2017	<0.000203					
4/3/2017						<0.000203
4/4/2017	<0.000203				<0.000203	
5/15/2017	<0.000203					
5/16/2017					<0.000203	<0.000203
6/12/2017					<0.000203	<0.000203
6/14/2017	<0.000203					
1/30/2018	<0.000203					
1/31/2018					<0.000203	
2/1/2018						<0.000203
5/7/2018					<0.000203	<0.000203
5/8/2018	<0.000203					
10/8/2018	<0.000203					
10/9/2018					<0.000203	<0.000203
4/24/2019					<0.000203	<0.000203
8/28/2019	<0.000203				<0.000203	<0.000203
3/3/2020						<0.000203
3/4/2020					<0.000203	
3/10/2020	<0.000203					
10/13/2020					<0.000203	<0.000203
10/19/2020	<0.000203					
10/20/2020		<0.000203	<0.0002	<0.000203		
4/21/2021		<0.000203	<0.0002	<0.000203		<0.000203
4/26/2021					<0.000203	
5/5/2021	9.27E-05 (J)					
9/1/2021					<0.000203	<0.000203
9/7/2021	0.00012 (J)	<0.000203	<0.0002			
9/13/2021				<0.000203		
3/8/2022						<0.000203
3/9/2022		<0.000203	0.0001 (J)	<0.000203	<0.000203	
3/17/2022	0.00016 (J)					
9/19/2022		<0.000203	0.000378			
9/20/2022					<0.000203	<0.000203
9/26/2022	<0.000203				<0.000203	
4/18/2023		<0.000203	0.000563			
4/19/2023					<0.000203	<0.000203
5/2/2023					<0.000203	
5/3/2023	<0.000203					
9/26/2023		<0.000203	0.000822		<0.000203	
10/2/2023	<0.000203					
10/11/2023					<0.000203	<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.000203		
9/28/2016				0.000219 (J)		
11/1/2016				<0.000203		
1/11/2017				<0.000203		
2/14/2017				<0.000203		
4/4/2017				<0.000203		
5/16/2017				<0.000203		
6/14/2017				<0.000203		
2/1/2018				<0.000203		
5/9/2018				<0.000203		
10/9/2018				<0.000203		
3/6/2019	<0.000203	<0.000203			<0.000203	<0.000203
5/1/2019				<0.000203		
8/27/2019	<0.000203	<0.000203		<0.000203		
9/3/2019					<0.000203	<0.000203
3/3/2020				<0.000203		
3/9/2020			<0.000203			
3/10/2020	<0.000203	<0.000203			<0.000203	<0.000203
10/13/2020	<0.000203	<0.000203				
10/14/2020			<0.000203			
10/19/2020					<0.000203	<0.000203
10/21/2020				<0.000203		
4/20/2021			<0.000203			
4/26/2021				<0.000203		
4/28/2021					<0.000203	
5/3/2021						<0.000203
5/5/2021	<0.000203	<0.000203				
9/7/2021	<0.000203					
9/8/2021					<0.000203	<0.000203
9/13/2021			<0.000203			
9/14/2021		<0.000203		<0.000203		
3/8/2022	<0.000203	<0.000203				
3/9/2022			<0.000203		<0.000203	<0.000203
3/16/2022				<0.000203		
9/14/2022	<0.000203		<0.000203			
9/21/2022		<0.000203			<0.000203	<0.000203
9/26/2022				<0.000203		
4/19/2023	<0.000203				<0.000203	<0.000203
5/1/2023			<0.000203			
5/2/2023		<0.000203		<0.000203		
10/3/2023		<0.000203				<0.000203
10/4/2023					<0.000203	
10/10/2023	<0.000203		<0.000203	<0.000203		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.000203					
8/28/2019	<0.000203					
3/9/2020	<0.000203				<0.000203	
10/13/2020	<0.000203					
10/14/2020				<0.000203	<0.000203	<0.000203
10/20/2020			<0.000203			
10/26/2020	<0.000203					
4/20/2021			<0.000203	<0.000203		
4/27/2021	<0.000203					<0.000203
4/28/2021	<0.000203					
5/5/2021					<0.000203	
6/16/2021	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
9/14/2021	<0.000203	<0.000203				
9/15/2021			<0.000203	<0.000203	<0.000203	<0.000203
3/15/2022					<0.000203	
3/16/2022			<0.000203	<0.000203		<0.000203
3/17/2022	<0.000203	<0.000203				
9/14/2022					<0.000203	<0.000203
9/21/2022		<0.000203	<0.000203	<0.000203		
9/26/2022	<0.000203					
5/1/2023					<0.000203	<0.000203
5/2/2023	<0.000203					
5/3/2023		<0.000203	<0.000203	<0.000203		
10/4/2023			<0.000203	<0.000203	<0.000203	<0.000203
10/11/2023	<0.000203					
10/12/2023		<0.000203				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.000203
3/9/2020		<0.000203				
3/10/2020			<0.000203		<0.000203	
10/14/2020						<0.000203
10/15/2020					<0.000203	
10/19/2020		<0.000203				
10/20/2020			<0.000203			
10/26/2020	<0.000203					
10/27/2020				<0.000203		
4/20/2021		<0.000203				
4/21/2021			<0.000203			
4/27/2021				<0.000203		
4/28/2021					<0.000203	
5/3/2021	<0.000203					<0.000203
9/8/2021						<0.000203
9/13/2021		<0.000203	<0.000203	<0.000203		
9/14/2021	<0.000203				<0.000203	
3/9/2022					<0.000203	
3/14/2022	<0.000203	<0.000203				<0.000203
3/16/2022			<0.000203	<0.000203		
9/19/2022			<0.000203			
9/20/2022		<0.000203		<0.000203		<0.000203
9/21/2022	<0.000203				<0.000203	
4/19/2023		<0.000203			<0.000203	
4/24/2023				<0.000203		
4/25/2023	<0.000203					<0.000203
4/26/2023			<0.000203			
9/27/2023	<0.000203	<0.000203				
10/4/2023					<0.000203	0.000191 (J)
10/9/2023				<0.000203		
10/11/2023			<0.000203			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.000203	<0.000203
9/26/2016					<0.000203	<0.000203
10/31/2016					<0.000203	<0.000203
1/9/2017					<0.000203	<0.000203
2/13/2017					<0.000203	<0.000203
4/3/2017					<0.000203	<0.000203
5/16/2017					<0.000203	<0.000203
6/12/2017					<0.000203	<0.000203
1/29/2018					<0.000203	<0.000203
5/10/2018					<0.000203	<0.000203
10/9/2018					<0.000203	<0.000203
4/22/2019						<0.000203
4/29/2019					<0.000203	
8/27/2019					<0.000203	<0.000203
3/3/2020					<0.000203	<0.000203
3/9/2020	<0.000203			<0.000203		
3/10/2020		<0.000203				
10/13/2020		<0.000203			<0.000203	<0.000203
10/19/2020				<0.000203		
10/21/2020	<0.000203					
10/27/2020			<0.000203			
4/21/2021	<0.000203		<0.000203			
5/3/2021				<0.000203		
5/5/2021		<0.000203			<0.000203	<0.000203
9/7/2021		<0.000203			<0.000203	<0.000203
9/13/2021	<0.000203		<0.000203			
9/15/2021				<0.000203		
3/8/2022		<0.000203				
3/9/2022	<0.000203					
3/16/2022			<0.000203		<0.000203	<0.000203
3/17/2022				<0.000203		
9/14/2022			<0.000203			
9/19/2022	<0.000203	<0.000203			<0.000203	<0.000203
9/27/2022				<0.000203		
4/18/2023		<0.000203		<0.000203		
4/25/2023			<0.000203			
5/2/2023	<0.000203				<0.000203	<0.000203
10/3/2023					<0.000203	<0.000203
10/9/2023				<0.000203		
10/10/2023	<0.000203	<0.000203				
10/12/2023			<0.000203			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.000302 (J)					
7/26/2016			<0.000203	<0.000203		
9/27/2016	0.00021 (J)					
9/28/2016			<0.000203	<0.000203		
11/1/2016	0.000239 (J)			<0.000203		
11/2/2016			<0.000203			
1/9/2017	0.000248 (J)			<0.000203		
1/10/2017			<0.000203			
2/13/2017	0.00031 (J)			<0.000203		
2/14/2017			<0.000203			
4/3/2017			<0.000203	<0.000203		
4/4/2017	0.000241 (J)					
5/16/2017	0.000266 (J)			<0.000203		
5/17/2017			<0.000203			
6/12/2017	0.000272 (J)		<0.000203	<0.000203		
1/29/2018	<0.000203					
2/1/2018			<0.000203	<0.000203		
5/9/2018	<0.000203		<0.000203	<0.000203		
10/8/2018	<0.000203		<0.000203	<0.000203		
3/5/2019		<0.000203			<0.000203	
4/23/2019			<0.000203	<0.000203		
4/29/2019	<0.000203					
8/27/2019	<0.000203	<0.000203				
8/28/2019			<0.000203	<0.000203	<0.000203	
3/2/2020			<0.000203			
3/3/2020				<0.000203	<0.000203	
3/4/2020	<0.000203	<0.000203				
10/14/2020	<0.000203	<0.000203				
10/19/2020					<0.000203	
10/20/2020				<0.000203		<0.000203
10/21/2020			<0.000203			
4/26/2021	7.3E-05 (J)	<0.000203				
4/27/2021						<0.000203
4/28/2021				<0.000203	<0.000203	
5/3/2021			<0.000203			
9/1/2021	8E-05 (J)	<0.000203		<0.000203		<0.000203
9/8/2021			<0.000203		<0.000203	
3/8/2022						<0.000203
3/14/2022			<0.000203			
3/15/2022	<0.000203	<0.000203				
3/16/2022				<0.000203	<0.000203	
9/20/2022			<0.000203			<0.000203
9/21/2022				<0.000203		
9/26/2022	<0.000203	<0.000203			<0.000203	
4/24/2023					<0.000203	<0.000203
4/25/2023			<0.000203	<0.000203		
5/2/2023	<0.000203	<0.000203				
10/3/2023				<0.000203	<0.000203	<0.000203
10/4/2023			<0.000203			
10/10/2023	<0.000203					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.000203
9/28/2016				<0.000203
11/2/2016				<0.000203
1/12/2017				<0.000203
2/13/2017				<0.000203
4/3/2017				<0.000203
5/17/2017				<0.000203
6/12/2017				<0.000203
2/1/2018				<0.000203
5/9/2018				<0.000203
10/8/2018				<0.000203
4/23/2019				<0.000203
8/29/2019				<0.000203
3/2/2020				<0.000203
10/15/2020		<0.000203	<0.000203	
10/20/2020	<0.000203			
10/21/2020				<0.000203
4/27/2021	<0.000203	<0.000203	<0.000203	
5/3/2021				<0.000203
9/1/2021	<0.000203	<0.000203	<0.000203	
9/8/2021				<0.000203
3/8/2022	<0.000203	<0.000203	<0.000203	
3/14/2022				<0.000203
9/20/2022	<0.000203			<0.000203
9/21/2022		<0.000203	<0.000203	
4/24/2023	<0.000203			
4/25/2023				<0.000203
5/3/2023		<0.000203	<0.000203	
9/27/2023		<0.000203	<0.000203	
10/3/2023	<0.000203			
10/4/2023				<0.000203

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				153	132	164
8/2/2016	47.2					
8/3/2016			6.85			
9/20/2016	46.3					
9/21/2016			11.7			
9/26/2016				122		
9/27/2016					127	164
10/25/2016	46.6		10.8			
10/31/2016					122	
11/1/2016						158
11/2/2016				114		
12/13/2016	43.1		5.86			
1/11/2017				112	124	
1/12/2017						163
2/6/2017			9.76			
2/8/2017	47.5					
2/13/2017				132		166
2/14/2017					125	
3/28/2017			5.28			
3/29/2017	46.8					
4/3/2017				168		
4/4/2017						166
4/6/2017					125	
4/24/2017			6.89			
4/26/2017	48.1					
5/15/2017				104		
5/16/2017						160
5/17/2017					124	
6/7/2017	44.4		3.58			
6/13/2017					129	
6/14/2017				122		166
8/21/2017			3.38			
8/22/2017	42.9					
9/19/2017				98.6		165
9/21/2017					133	
3/27/2018				105		166
3/28/2018					143	
5/8/2018						132
5/9/2018				141		
5/10/2018					132	
5/15/2018	44.3		4.25			
10/8/2018					164	
10/9/2018				94.1		121
10/16/2018			3.21			
10/17/2018	41.8					
2/20/2019		30.6				
4/16/2019	38.6		4.43			
4/24/2019					201	
5/1/2019				47.9		136
8/27/2019				165		
8/28/2019						138
8/29/2019					178	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
9/24/2019	29.7		7.24			
3/3/2020						179
3/9/2020				126	222	
3/18/2020			4.51			
3/25/2020	31.1					
9/21/2020			5.19			
9/23/2020	29.3					
10/19/2020				32.6	149	
10/20/2020						151
2/2/2021	31.8		4.35			
4/20/2021				36.2		
4/21/2021						148
5/3/2021					165	
8/2/2021	33					
8/10/2021			4.47			
9/8/2021				78.8		
9/14/2021						147
9/15/2021					152	
2/14/2022	30.1					
2/16/2022			4.42			
3/15/2022				98.1		
3/16/2022						173
3/17/2022					76.4	
8/2/2022			5.28			
8/9/2022	31.4					
9/19/2022				182		
9/20/2022						209
9/26/2022					184	
3/22/2023	29.6					
3/27/2023			4.77			
5/2/2023				130		
5/3/2023					118	231
9/11/2023	31.1					
9/18/2023			6.08			
10/9/2023					194	
10/11/2023				217		209

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					37	185
7/20/2016	178					
9/26/2016					37.5	189
9/27/2016	165					
10/31/2016					38.4	163
11/1/2016	160					
1/9/2017					37.8	214
1/11/2017	170					
2/14/2017					39.2	237
2/15/2017	173					
4/3/2017						159
4/4/2017	167				37.5	
5/15/2017	169					
5/16/2017					40.4	154
6/12/2017					38.4	146
6/14/2017	177					
9/19/2017					37.8	136
9/21/2017	171					
3/28/2018	177				37.7	136
5/7/2018					38.4	129
5/8/2018	173					
10/8/2018	174					
10/9/2018					38.2	211
4/24/2019					39	139
8/28/2019	152				53.8	99.5
3/3/2020						66.8
3/4/2020					39.3	
3/10/2020	138					
10/13/2020					41.4	96.9
10/19/2020	115					
10/20/2020		46.7	35.9	36.4		
4/21/2021		63.9	98.6	35.7		99.3
4/26/2021					48.3 (RA)	
5/5/2021	107 (RA)					
9/1/2021					47.8	130
9/7/2021	128	64.9	105			
9/13/2021				38		
3/8/2022						154
3/9/2022		73	96.8	36.6	39.1	
3/17/2022	102					
9/19/2022		77.5	81.400002			
9/20/2022					84.599998	142
9/26/2022	80.699997			37.5		
4/18/2023		67.900002	65			
4/19/2023					66.400002	158
5/2/2023				47.5		
5/3/2023	30.299999					
9/26/2023		83.5	62.900002		82.199997	
10/2/2023	31.200001					
10/11/2023				45.799999		169

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				209		
9/28/2016				240		
11/1/2016				213		
1/11/2017				218		
2/14/2017				244		
4/4/2017				234		
5/16/2017				241		
6/14/2017				241		
9/20/2017				235		
3/27/2018				250		
5/9/2018				246		
10/9/2018				272		
3/6/2019	47	4.86			266	179
5/1/2019				272		
8/27/2019	48.3	16		251		
9/3/2019					240	161
3/3/2020				278		
3/9/2020			5.28			
3/10/2020	50.6	2.15			226	157
10/13/2020	44.6	17.7				
10/14/2020			8			
10/19/2020					201	145
10/21/2020				212		
4/20/2021			10.1			
4/26/2021				252		
4/28/2021					191	
5/3/2021						133
5/5/2021	43.7	12.5				
9/7/2021	43.2					
9/8/2021					207	130
9/13/2021			6			
9/14/2021		15.1		226		
3/8/2022	41.7	3.72				
3/9/2022			8.95		191	115
3/16/2022				239		
9/14/2022	37.599998		23.799999			
9/21/2022		8.78			247	130
9/26/2022				208		
4/19/2023	40.799999				197	79.699997
5/1/2023			14.2			
5/2/2023		3.04		251		
10/3/2023		6.48				78.900002
10/4/2023					217	
10/10/2023	37.700001		11.9	278		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	60.1					
8/28/2019	63.5					
3/9/2020	52.4			128		
10/13/2020	51.7					
10/14/2020			46.6	123	118	
10/20/2020		8.61				
10/26/2020	49.7					
4/20/2021		3.66	79			
4/27/2021	58.1				125	
4/28/2021	55.5					
5/5/2021				134		
6/16/2021	64.5	3.4	97.6		138	
9/14/2021	56.7	64.2				
9/15/2021		2.74	97.9	128	129	
3/15/2022				117		
3/16/2022		2.66	97.5		128	
3/17/2022	54.6	71.2				
9/14/2022				147	131	
9/21/2022	66.900002	2.98	127			
9/26/2022	63.799999					
5/1/2023				143	138	
5/2/2023	58					
5/3/2023	30.6	2.61	125			
10/4/2023		4.45	136	134	146	
10/11/2023	63.900002					
10/12/2023	33					

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						214
3/9/2020		56.9				
3/10/2020			207		51.1	
10/14/2020						244
10/15/2020					49.5	
10/19/2020		63.6				
10/20/2020			228			
10/26/2020	47.2					
10/27/2020				130		
4/20/2021		49.8				
4/21/2021			229			
4/27/2021				131		
4/28/2021					58.5	
5/3/2021	48.8					248
9/8/2021						258
9/13/2021		58.3	223	130		
9/14/2021	47.2				58.7	
3/9/2022					53.6	
3/14/2022	44.5	50.6				225
3/16/2022			198	129		
9/19/2022			241			
9/20/2022		59		155		280
9/21/2022	51.400002				71.400002	
4/19/2023		46.5			56.599998	
4/24/2023				125		
4/25/2023	54.599998					220
4/26/2023			206			
9/27/2023	58.200001	49.599998				
10/4/2023					61.200001	237
10/9/2023				161		
10/11/2023			229			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					296	5.63
9/26/2016					269	4.28
10/31/2016					266	4.04
1/9/2017					282	4.15
2/13/2017					268	4.38
4/3/2017					282	4.45
5/16/2017					234	4.23
6/12/2017					232	4.14
9/20/2017					211	3.88
3/27/2018					191	3.4
5/10/2018					219	3.79
10/9/2018					242	3.78
4/22/2019						16.8
4/29/2019					186	
8/27/2019					189	9.68
3/3/2020					170	9.94
3/9/2020	21.1			41.7		
3/10/2020		57.5				
10/13/2020		64.9			162	6.81
10/19/2020				38.9 (RA)		
10/21/2020	24.6					
10/27/2020			10.9			
4/21/2021	28.1		23.8			
5/3/2021				40.1		
5/5/2021		61.5			153	7.04
9/7/2021		63.3			158	6.69
9/13/2021	20.2		31.2			
9/15/2021				39.6		
3/8/2022		61.6				
3/9/2022	12.9					
3/16/2022			32.6		116	5.38
3/17/2022				38.2		
9/14/2022			32.099998			
9/19/2022	13.3	71.800003			145	4.9
9/27/2022				36.599998		
4/18/2023		60.299999		38.099998		
4/25/2023			34.700001			
5/2/2023	14.9				94.5	8.78
10/3/2023					114	5.03
10/9/2023				39.799999		
10/10/2023	15.5	77.099998				
10/12/2023			56.700001			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	333					
7/26/2016			315	135		
9/27/2016	320					
9/28/2016			324	141		
11/1/2016	305			137		
11/2/2016			305			
1/9/2017	329			140		
1/10/2017			319			
2/13/2017	291			141		
2/14/2017			341			
4/3/2017			329	141		
4/4/2017	287					
5/16/2017	279			145		
5/17/2017			296			
6/12/2017	258		263	144		
9/18/2017			292	144		
9/20/2017	249					
3/27/2018	226		267	154		
5/9/2018	212		265	150		
10/8/2018	245		290	150		
3/5/2019		229			181	
4/23/2019			330	167		
4/29/2019	271					
8/27/2019	252	252				
8/28/2019			279	148	89.2	
3/2/2020			267			
3/3/2020				155	103	
3/4/2020	210	146				
10/14/2020	194	193				
10/19/2020					96.4	
10/20/2020				148		121
10/21/2020			242			
4/26/2021	193	178				
4/27/2021						125
4/28/2021				172	97.3	
5/3/2021			249			
9/1/2021	213	205		160		126
9/8/2021			239		110	
3/8/2022						124
3/14/2022			228			
3/15/2022	159	226				
3/16/2022				160	99.9	
9/20/2022			251			145
9/21/2022				189		
9/26/2022	180	297			109	
4/24/2023					91.400002	133
4/25/2023			229	147		
5/2/2023	146	108				
10/3/2023				147	62.799999	168
10/4/2023			215			
10/10/2023	205					

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				52.8
9/28/2016				246.4
11/2/2016				61.3
1/12/2017				47.7
2/13/2017				54
4/3/2017				28.7
5/17/2017				26.7
6/12/2017				26.3
9/18/2017				20.2
3/27/2018				13.9
5/9/2018				13.8
10/8/2018				11.1
4/23/2019				11.9
8/29/2019				14.2
3/2/2020				10.3
10/15/2020		98.7	99.8	
10/20/2020	92.8			
10/21/2020				7.36
4/27/2021	89.7	97.8	96.5	
5/3/2021				9.36
9/1/2021	92.1	95.5	96.8	
9/8/2021				7.63
3/8/2022	91.2	86.5	99.1	
3/14/2022				6.95
9/20/2022	110			6.51
9/21/2022		219	149	
4/24/2023	96.400002			
4/25/2023				5.85
5/3/2023		180	124	
9/27/2023		173	118	
10/3/2023	117			
10/4/2023				5.67

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				14.1	6.41	8.3
8/2/2016	2.91					
8/3/2016			3.21			
9/20/2016	2.94					
9/21/2016			2.95			
9/26/2016				13.3		
9/27/2016					6.3	7.94
10/25/2016	2.94		3.03			
10/31/2016					6.36	
11/1/2016						7.32
11/2/2016				12.1		
12/13/2016	2.93		3.21			
1/11/2017				11.6	6.65	
1/12/2017						6.29
2/6/2017			3			
2/8/2017	2.85					
2/13/2017				14		9.1
2/14/2017					9.2	
3/28/2017			3.3 (D)			
3/29/2017	3.4 (D)					
4/3/2017				11		
4/4/2017						7
4/6/2017					8	
4/24/2017			3.8 (D)			
4/26/2017	3.7 (D)					
5/15/2017				13		
5/16/2017						7.1
5/17/2017					8.1	
6/7/2017	3.3		3.5			
6/13/2017					8.1	
6/14/2017				13		7.9
8/21/2017			3.6			
8/22/2017	3.4					
9/19/2017				13		6.8
9/21/2017					7.7	
3/27/2018				13		5.7
3/28/2018					7	
5/8/2018						7.3
5/9/2018				11		
5/10/2018					7.4	
5/15/2018	3.2		3.3			
10/8/2018					7.4	
10/9/2018				12		6.5
10/16/2018			3.3			
10/17/2018	2.3					
2/20/2019		3.56				
4/16/2019	3.23		3.69			
4/24/2019					7.66	
5/1/2019				15		6.46
8/27/2019				8.75		
8/28/2019						6.4
8/29/2019					6.65	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
9/24/2019	3.69		3.21			
3/3/2020						6.2
3/9/2020				19.6	7.47	
3/18/2020			4.35			
3/25/2020	3.72					
9/21/2020			3.22			
9/23/2020	3.74					
10/19/2020				16	6.03	
10/20/2020						6.33
2/2/2021	3.49		3.85			
4/20/2021				12.9		
4/21/2021						5.99
5/3/2021					6.38	
8/2/2021	3.12					
8/10/2021			4.04			
9/8/2021				10.8		
9/14/2021						6.33
9/15/2021					6.39	
2/14/2022	3.26					
2/16/2022			4.42			
3/15/2022				10.4		
3/16/2022						7.08
3/17/2022					4.75	
8/2/2022			4.35			
8/9/2022	3.09					
9/19/2022				9.01		
9/20/2022						7.52
9/26/2022					8.6	
3/22/2023	2.8					
3/27/2023			4.17			
5/2/2023				9.27		
5/3/2023					7.08	6.53
9/11/2023	2.83					
9/18/2023			3.07			
10/9/2023					8.66	
10/11/2023				8.56		6.13

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					16.9	24.9
7/20/2016	8.05					
9/26/2016					17.1	29.2
9/27/2016	8.37					
10/31/2016					17.3	25.9
11/1/2016	8.62					
1/9/2017					17.2	31.7
1/11/2017	8.33					
2/14/2017					20	43
2/15/2017	9.9					
4/3/2017						25
4/4/2017	9.5				19	
5/15/2017	8.1					
5/16/2017					20	21
6/12/2017					21	23
6/14/2017	8					
9/19/2017					19	19
9/21/2017	7.7					
3/28/2018	6.5				19	16
5/7/2018					20	16
5/8/2018	6.8					
10/8/2018	6.9					
10/9/2018					20	24
4/24/2019					18.3	11.9
8/28/2019	7.27				19.3	10.8
3/3/2020						5.33
3/4/2020					18.5	
3/10/2020	7.52					
10/13/2020					17.5	10
10/19/2020	7.33					
10/20/2020		13.8	10.6	7.55		
4/21/2021		40.5	5.3	7.77		10.3
4/26/2021					17.9	
5/5/2021	8.01					
9/1/2021					17.5	6.87
9/7/2021	8.14	40.2	4.94			
9/13/2021				7.9		
3/8/2022						7.81
3/9/2022		45.8	4.71	7.96	17.6	
3/17/2022	8.05					
9/19/2022		45	4.02			
9/20/2022					17.700001	11.4
9/26/2022	7.51			7.67		
4/18/2023		65.5	4.62			
4/19/2023					17.9	5.39
5/2/2023				8.39		
5/3/2023	5.56					
9/26/2023		108	4.32		16.4	
10/2/2023	5.08					
10/11/2023				8.26		11.7

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				5.13		
9/28/2016				4		
11/1/2016				4.99		
1/11/2017				6.72		
2/14/2017				7.4		
4/4/2017				8.3		
5/16/2017				6.6		
6/14/2017				6		
9/20/2017				8.3		
3/27/2018				8.7		
5/9/2018				8.7		
10/9/2018				8		
3/6/2019	6.27	8.61			44.5	38.1
5/1/2019				5.04		
8/27/2019	6.42	58.9		7.95		
9/3/2019					43.8	36.8
3/3/2020				8.59		
3/9/2020			26.3			
3/10/2020	4.72	5.53			44.2	38.9
10/13/2020	6.09	22.7				
10/14/2020			120			
10/19/2020					38.6	35.4
10/21/2020				9.47		
4/20/2021			250			
4/26/2021				9.31		
4/28/2021					34	
5/3/2021						34.4
5/5/2021	9.16	14.9				
9/7/2021	6.45					
9/8/2021					33.4	35.4
9/13/2021			138			
9/14/2021		14.1		5.88		
3/8/2022	6.06	5.42				
3/9/2022			165		27.6	33.8
3/16/2022				6.88		
9/14/2022	7.92		288			
9/21/2022		12.1			25.799999	32.400002
9/26/2022				5.2		
4/19/2023	6.4				26.799999	32.700001
5/1/2023			204			
5/2/2023		4.3		4.85		
10/3/2023		6.83				30.1
10/4/2023					23.4	
10/10/2023	10.1		103	6.83		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	9.18					
8/28/2019	9.75					
3/9/2020	14.6			2430		
10/13/2020	14.4					
10/14/2020			163	2440	2510	
10/20/2020		247				
10/26/2020	2140					
4/20/2021		79.8	91.2			
4/27/2021	2190				2510	
4/28/2021	14.4					
5/5/2021				2670		
6/16/2021	2390	85.8	128		2740	
9/14/2021	6.73	2650				
9/15/2021			62.1	112	2940	2640
3/15/2022					2450	
3/16/2022			47.3	127		2520
3/17/2022	11.1	2660				
9/14/2022					2800	2570
9/21/2022		2780	96.900002	127		
9/26/2022	10					
5/1/2023					2600	2670
5/2/2023	21					
5/3/2023		523	32.900002	123		
10/4/2023			147	223	2630	2560
10/11/2023	9.32					
10/12/2023		868				

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						33.9
3/9/2020		5.26				
3/10/2020			117		5.73	
10/14/2020						38.7
10/15/2020					4.47	
10/19/2020		5.22				
10/20/2020			149			
10/26/2020	14.1					
10/27/2020				12.5		
4/20/2021		5.58				
4/21/2021			131			
4/27/2021				11.5		
4/28/2021					7.94	
5/3/2021	16					33.4
9/8/2021						30.3
9/13/2021		6.4	81.7	13.1		
9/14/2021	15.6				7.41	
3/9/2022					8.5	
3/14/2022	15.5	5.91				24.3
3/16/2022			99.5	14.1		
9/19/2022			90			
9/20/2022		7.21		43.200001		24.1
9/21/2022	16.5				7.96	
4/19/2023		7.37			8.09	
4/24/2023				13.6		
4/25/2023	59.400002					21.4
4/26/2023			58.400002			
9/27/2023	15.6	18.299999				
10/4/2023					6.34	97
10/9/2023				13.8		
10/11/2023			53.5			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					52.7	25
9/26/2016					50.6	23.6
10/31/2016					52.6	24.4
1/9/2017					51.4	24.3
2/13/2017					56	28
4/3/2017					55	31
5/16/2017					55	31
6/12/2017					57	32
9/20/2017					43	30
3/27/2018					38	33
5/10/2018					37	34
10/9/2018					41	32
4/22/2019						242
4/29/2019					40.7	
8/27/2019					34.7	145
3/3/2020					29.1	177
3/9/2020	159			10.7		
3/10/2020		2.26				
10/13/2020		1.91			25.9	96.3
10/19/2020				10.3		
10/21/2020	199					
10/27/2020			66.6			
4/21/2021	273		274			
5/3/2021				10.7		
5/5/2021		2.57			21	76.5
9/7/2021		2.13			21.2	78.6
9/13/2021	216		406			
9/15/2021				10.6		
3/8/2022		2.2				
3/9/2022	161					
3/16/2022			471		15	79.4
3/17/2022				10.9		
9/14/2022			439			
9/19/2022	143	2.57			13.3	70.900002
9/27/2022				10.8		
4/18/2023		2.26		11.2		
4/25/2023			405			
5/2/2023	108				6.52	84.300003
10/3/2023					6.99	66.599998
10/9/2023				12.2		
10/10/2023	121	2.03				
10/12/2023			555			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	40.8					
7/26/2016			39.1	24.8		
9/27/2016	47.1					
9/28/2016			40.9	24.9		
11/1/2016	49.7			26		
11/2/2016			44.1			
1/9/2017	48.8			25.1		
1/10/2017			45.2			
2/13/2017	46			28		
2/14/2017			44			
4/3/2017			48	29		
4/4/2017	50					
5/16/2017	50			30		
5/17/2017			53			
6/12/2017	52		53	31		
9/18/2017			45	29		
9/20/2017	45					
3/27/2018	40		45	32		
5/9/2018	39		45	32		
10/8/2018	41		44	33		
3/5/2019		26.7			27.8	
4/23/2019			43.3	33		
4/29/2019	42.4					
8/27/2019	42.3	44.5				
8/28/2019			47.1	32.5	18.9	
3/2/2020			42.1			
3/3/2020				35.3	23.6	
3/4/2020	40.1	24.3				
10/14/2020	30.8	35.2				
10/19/2020				25		
10/20/2020				34		43.2
10/21/2020			35.8			
4/26/2021	24.8	23.6				
4/27/2021						51
4/28/2021				36.7	24.3	
5/3/2021			31.1			
9/1/2021	24.6	24.9		34		54.7
9/8/2021			28.7		34.3	
3/8/2022						54.3
3/14/2022			26.1			
3/15/2022	19	23.7				
3/16/2022				33.2	27.7	
9/20/2022			23.1			61.599998
9/21/2022				31.9		
9/26/2022	17.299999	25.299999			25	
4/24/2023					55.299999	52.599998
4/25/2023			22.200001	32.700001		
5/2/2023	19.6	39.200001				
10/3/2023				29	18.299999	53.099998
10/4/2023			21.799999			
10/10/2023	21.4					

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				30.5
9/28/2016				31.1
11/2/2016				30.2
1/12/2017				29.8
2/13/2017				33
4/3/2017				32
5/17/2017				37
6/12/2017				34
9/18/2017				36
3/27/2018				33
5/9/2018				31
10/8/2018				32
4/23/2019				24.9
8/29/2019				28.5
3/2/2020				29.5
10/15/2020		6.21	12.5	
10/20/2020	22.9			
10/21/2020				23.9
4/27/2021	23.1	6.72	9.96	
5/3/2021				17.9
9/1/2021	23.4	6.69	10.9	
9/8/2021				36.7
3/8/2022	24.3	7.08	8.44	
3/14/2022				30.7
9/20/2022	22.9			22.200001
9/21/2022		8.42	5.58	
4/24/2023	24			
4/25/2023				17.1
5/3/2023		9.38	2.93	
9/27/2023		9.11	5.66	
10/3/2023	22.5			
10/4/2023				27.1

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.00711 (J)	0.0112	<0.001015
8/2/2016	0.01					
8/3/2016			0.01			
9/20/2016	0.01					
9/21/2016			0.00266 (J)			
9/26/2016				0.0166		
9/27/2016					<0.001015	<0.001015
10/25/2016	0.01		0.01			
10/31/2016					<0.001015	
11/1/2016						<0.001015
11/2/2016				0.00481 (J)		
12/13/2016	0.01		0.01			
1/11/2017				0.00431 (J)	<0.001015	
1/12/2017						<0.001015
2/6/2017			0.01			
2/8/2017	0.01					
2/13/2017				0.0061 (J)		<0.001015
2/14/2017					<0.001015	
3/28/2017			0.00322 (J)			
3/29/2017	0.01					
4/3/2017				0.00215 (J)		
4/4/2017						<0.001015
4/6/2017					<0.001015	
4/24/2017			0.01			
4/26/2017	0.01					
5/15/2017				0.0123		
5/16/2017						<0.001015
5/17/2017					<0.001015	
6/7/2017	<0.01		0.00227 (J)			
6/13/2017					<0.001015	
6/14/2017				0.00558 (J)		<0.001015
1/31/2018					<0.001015	
2/1/2018				0.00287 (J)		<0.001015
2/19/2018			<0.01			
2/20/2018	<0.01					
5/8/2018						<0.001015
5/9/2018				<0.01		
5/10/2018					<0.001015	
5/15/2018	<0.01		<0.01			
10/8/2018					<0.001015	
10/9/2018				0.00248 (J)		<0.001015
10/16/2018			<0.01			
10/17/2018	<0.01					
2/20/2019		<0.001015				
4/16/2019	<0.01		<0.01			
4/24/2019					<0.001015	
5/1/2019				<0.01		<0.001015
8/27/2019				0.00336 (J)		
8/28/2019						<0.001015
8/29/2019					<0.001015	
9/24/2019		0.00405 (J)	<0.01			
3/3/2020						<0.001015

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.0105	<0.001015	
3/18/2020			<0.01			
3/25/2020	<0.001015					
9/21/2020			<0.01			
9/23/2020	<0.001015					
10/19/2020				0.00527 (J)	<0.001015	
10/20/2020						<0.001015
2/2/2021	0.000313 (J)		0.000389 (J)			
4/20/2021				0.00235		
4/21/2021						<0.001015
5/3/2021					<0.001015	
8/2/2021	0.00032 (J)					
8/10/2021			0.00058 (J)			
9/8/2021				0.00143		
9/14/2021						0.00037 (J)
9/15/2021					0.00047 (J)	
2/14/2022	0.00021 (J)					
2/16/2022			0.0004 (J)			
3/15/2022				0.00199		
3/16/2022						0.00027 (J)
3/17/2022					0.00139	
8/2/2022			0.000629 (J)			
8/9/2022	0.000291 (J)					
9/19/2022				0.00148		
9/20/2022						0.000272 (J)
9/26/2022					0.000436 (J)	
3/22/2023	<0.001015					
3/27/2023			0.000761 (J)			
5/2/2023				0.0042		
5/3/2023					0.000411 (J)	<0.001015
9/11/2023	<0.001015					
9/18/2023			0.000368 (J)			
10/9/2023					0.00048 (J)	
10/11/2023				0.000805 (J)		0.000302 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.001015	<0.001015
7/20/2016	<0.001015					
9/26/2016					<0.001015	<0.001015
9/27/2016	<0.001015					
10/31/2016					<0.001015	<0.001015
11/1/2016	<0.001015					
1/9/2017					<0.001015	<0.001015
1/11/2017	<0.001015					
2/14/2017					<0.001015	<0.001015
2/15/2017	<0.001015					
4/3/2017						<0.001015
4/4/2017	<0.001015				<0.001015	
5/15/2017	<0.001015					
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
6/14/2017	<0.001015					
1/30/2018	<0.001015					
1/31/2018					<0.001015	
2/1/2018						<0.001015
5/7/2018					<0.001015	<0.001015
5/8/2018	<0.001015					
10/8/2018	<0.001015					
10/9/2018					<0.001015	<0.001015
4/24/2019					<0.001015	<0.001015
8/28/2019	<0.001015				<0.001015	<0.001015
3/3/2020						<0.001015
3/4/2020					<0.001015	
3/10/2020	<0.001015					
10/13/2020					<0.001015	<0.001015
10/19/2020	<0.001015					
10/20/2020		<0.00102	<0.001015	<0.001015		
4/21/2021		0.000207 (J)	0.000239 (J)	0.000239 (J)		<0.001015
4/26/2021					<0.001015	
5/5/2021	<0.001015					
9/1/2021					0.00033 (J)	0.00067 (J)
9/7/2021	0.00084 (J)	0.00031 (J)	0.00034 (J)			
9/13/2021				0.00044 (J)		
3/8/2022						<0.001015
3/9/2022		<0.00102	0.00068 (J)	<0.001015	0.00028 (J)	
3/17/2022	0.00048 (J)					
9/19/2022		0.000647 (J)	0.000275 (J)			
9/20/2022					0.000243 (J)	<0.001015
9/26/2022	0.00215				0.000356 (J)	
4/18/2023		0.000323 (J)	<0.001015			
4/19/2023					<0.001015	<0.001015
5/2/2023					<0.001015	
5/3/2023	0.00034 (J)					
9/26/2023		0.000263 (J)	0.000364 (J)		<0.001015	
10/2/2023	0.000606 (J)					
10/11/2023					<0.001015	0.000239 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.001015		
9/28/2016				<0.001015		
11/1/2016				<0.001015		
1/11/2017				<0.001015		
2/14/2017				<0.001015		
4/4/2017				<0.001015		
5/16/2017				<0.001015		
6/14/2017				<0.001015		
2/1/2018				<0.001015		
5/9/2018				<0.001015		
10/9/2018				<0.001015		
3/6/2019	<0.001015	<0.001015			<0.001015	<0.001015
5/1/2019				<0.001015		
8/27/2019	<0.001015	<0.001015		<0.001015		
9/3/2019					<0.001015	<0.001015
3/3/2020				<0.001015		
3/9/2020			<0.001015			
3/10/2020	<0.001015	<0.001015			<0.001015	<0.001015
10/13/2020	<0.001015	<0.001015				
10/14/2020			<0.001015			
10/19/2020					<0.001015	<0.001015
10/21/2020				<0.001015		
4/20/2021			<0.001015			
4/26/2021				0.00021 (J)		
4/28/2021					0.000229 (J)	
5/3/2021						<0.001015
5/5/2021	0.00119	0.0003 (J)				
9/7/2021	0.00029 (J)					
9/8/2021					0.00024 (J)	0.00025 (J)
9/13/2021			0.00029 (J)			
9/14/2021		0.00033 (J)		0.00051 (J)		
3/8/2022	<0.001015	0.00023 (J)				
3/9/2022			<0.001015		0.00021 (J)	0.00022 (J)
3/16/2022				<0.001015		
9/14/2022	<0.001015		<0.001015			
9/21/2022		0.000278 (J)			0.000306 (J)	<0.001015
9/26/2022				<0.001015		
4/19/2023	<0.001015				0.000211 (J)	<0.001015
5/1/2023			0.000252 (J)			
5/2/2023		<0.001015		<0.001015		
10/3/2023		0.000396 (J)				<0.001015
10/4/2023					<0.001015	
10/10/2023	0.000285 (J)		<0.001015	0.000268 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.001015					
8/28/2019	<0.001015					
3/9/2020	<0.001015				<0.00102	
10/13/2020	<0.001015					
10/14/2020				<0.001015	<0.00102	<0.001015
10/20/2020			<0.001015			
10/26/2020	<0.01					
4/20/2021			<0.001015	<0.001015		
4/27/2021		0.000308 (J)				<0.001015
4/28/2021	0.000708 (J)					
5/5/2021					0.0011	
6/16/2021		0.00068 (J)	0.00022 (J)	0.00028 (J)		0.00065 (J)
9/14/2021	0.00063 (J)	0.00075 (J)				
9/15/2021			0.00027 (J)	0.00021 (J)	0.00052 (J)	0.0004 (J)
3/15/2022					0.00039 (J)	
3/16/2022			0.0003 (J)	0.00023 (J)		0.0003 (J)
3/17/2022	0.00024 (J)	0.00066 (J)				
9/14/2022					<0.00102	0.000589 (J)
9/21/2022		0.000328 (J)	0.000233 (J)	0.000228 (J)		
9/26/2022	0.000247 (J)					
5/1/2023					0.000248 (J)	0.000286 (J)
5/2/2023	<0.001015					
5/3/2023		0.000377 (J)	0.000244 (J)	0.00025 (J)		
10/4/2023			<0.001015	0.000297 (J)	0.00034 (J)	0.000396 (J)
10/11/2023	0.00022 (J)					
10/12/2023		0.000544 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.001015
3/9/2020		<0.00102				
3/10/2020			<0.001015		<0.001015	
10/14/2020						<0.001015
10/15/2020					<0.001015	
10/19/2020		<0.00102				
10/20/2020			<0.001015			
10/26/2020	<0.001015					
10/27/2020				<0.001015		
4/20/2021		<0.00102				
4/21/2021			<0.001015			
4/27/2021				<0.001015		
4/28/2021					0.000309 (J)	
5/3/2021	0.000203 (J)					0.000276 (J)
9/8/2021						0.00025 (J)
9/13/2021		0.00027 (J)	0.00032 (J)	0.00033 (J)		
9/14/2021	0.00039 (J)				0.00037 (J)	
3/9/2022					0.00024 (J)	
3/14/2022	0.00036 (J)	<0.00102				<0.001015
3/16/2022			0.00021 (J)	0.00021 (J)		
9/19/2022			0.000331 (J)			
9/20/2022		<0.00102		0.000261 (J)		0.000269 (J)
9/21/2022	0.000302 (J)				0.000373 (J)	
4/19/2023		<0.00102			<0.001015	
4/24/2023				<0.001015		
4/25/2023	<0.001015					<0.001015
4/26/2023			<0.001015			
9/27/2023	0.000204 (J)	<0.00102				
10/4/2023					<0.001015	<0.001015
10/9/2023				0.00021 (J)		
10/11/2023			0.000278 (J)			

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.001015	<0.01
9/26/2016					<0.001015	<0.01
10/31/2016					<0.001015	<0.01
1/9/2017					<0.001015	<0.01
2/13/2017					<0.001015	<0.01
4/3/2017					<0.001015	<0.01
5/16/2017					<0.001015	<0.01
6/12/2017					<0.001015	<0.01
1/29/2018					<0.001015	<0.01
5/10/2018					<0.001015	<0.01
10/9/2018					<0.001015	<0.01
4/22/2019						<0.01
4/29/2019					<0.001015	
8/27/2019					<0.001015	<0.01
3/3/2020					<0.001015	<0.01
3/9/2020	<0.001015			<0.001015		
3/10/2020		<0.001015				
10/13/2020		<0.001015			<0.001015	<0.01
10/19/2020				<0.001015		
10/21/2020	<0.001015					
10/27/2020			<0.00102			
4/21/2021	<0.001015		<0.00102			
5/3/2021				0.000234 (J)		
5/5/2021		<0.001015			<0.001015	0.000646 (J)
9/7/2021		0.00033 (J)			0.00027 (J)	0.00042 (J)
9/13/2021	0.00032 (J)		0.00041 (J)			
9/15/2021				0.00025 (J)		
3/8/2022		0.00023 (J)				
3/9/2022	0.00021 (J)					
3/16/2022			<0.00102		0.00033 (J)	0.00034 (J)
3/17/2022				0.0002 (J)		
9/14/2022			0.000707 (J)			
9/19/2022	<0.001015	0.00026 (J)			0.000333 (J)	0.000343 (J)
9/27/2022				<0.001015		
4/18/2023		<0.001015		<0.001015		
4/25/2023			0.000752 (J)			
5/2/2023	<0.001015				<0.001015	0.000885 (J)
10/3/2023					0.000259 (J)	0.00045 (J)
10/9/2023				0.00024 (J)		
10/10/2023	0.000273 (J)	0.000251 (J)				
10/12/2023			0.00632			

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.001015					
7/26/2016			<0.001015	<0.001015		
9/27/2016	<0.001015					
9/28/2016			<0.001015	<0.001015		
11/1/2016	<0.001015			<0.001015		
11/2/2016			<0.001015			
1/9/2017	<0.001015			<0.001015		
1/10/2017			<0.001015			
2/13/2017	<0.001015			<0.001015		
2/14/2017			<0.001015			
4/3/2017			<0.001015	<0.001015		
4/4/2017	<0.001015					
5/16/2017	<0.001015			<0.001015		
5/17/2017			<0.001015			
6/12/2017	<0.001015		<0.001015	<0.001015		
1/29/2018	<0.001015					
2/1/2018			<0.001015	<0.001015		
5/9/2018	<0.001015		<0.001015	<0.001015		
10/8/2018	<0.001015		<0.001015	<0.001015		
3/5/2019		<0.001015			<0.001015	
4/23/2019			<0.001015	<0.001015		
4/29/2019	<0.001015					
8/27/2019	<0.001015	<0.001015				
8/28/2019			<0.001015	<0.001015	0.00361 (J)	
3/2/2020			<0.001015			
3/3/2020				<0.001015	<0.001015	
3/4/2020	<0.001015	<0.001015				
10/14/2020	<0.001015	<0.001015				
10/19/2020					<0.001015	
10/20/2020				<0.001015		<0.001015
10/21/2020			<0.001015			
4/26/2021	<0.001015	<0.001015				
4/27/2021						<0.001015
4/28/2021				<0.001015	0.00026 (J)	
5/3/2021			<0.001015			
9/1/2021	0.00029 (J)	0.00027 (J)		0.00025 (J)		0.0003 (J)
9/8/2021			0.00027 (J)		0.00021 (J)	
3/8/2022						<0.001015
3/14/2022			<0.001015			
3/15/2022	<0.001015	0.00032 (J)				
3/16/2022				0.00023 (J)	0.00022 (J)	
9/20/2022			<0.001015			0.000282 (J)
9/21/2022				0.000246 (J)		
9/26/2022	0.000278 (J)	0.000315 (J)			0.000592 (J)	
4/24/2023					0.000232 (J)	<0.001015
4/25/2023			<0.001015	<0.001015		
5/2/2023	<0.001015	0.000262 (J)				
10/3/2023				<0.001015	<0.001015	<0.001015
10/4/2023			<0.001015			
10/10/2023	0.000361 (J)					

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.001015
9/28/2016				<0.001015
11/2/2016				<0.001015
1/12/2017				<0.001015
2/13/2017				<0.001015
4/3/2017				<0.001015
5/17/2017				<0.001015
6/12/2017				<0.001015
2/1/2018				<0.001015
5/9/2018				<0.001015
10/8/2018				<0.001015
4/23/2019				<0.001015
8/29/2019				<0.001015
3/2/2020				<0.001015
10/15/2020		<0.001015	<0.001015	
10/20/2020	<0.001015			
10/21/2020				<0.001015
4/27/2021	0.000219 (J)	0.000284 (J)	0.000204 (J)	
5/3/2021				<0.001015
9/1/2021	0.00025 (J)	0.0003 (J)	0.00031 (J)	
9/8/2021				0.00021 (J)
3/8/2022	0.00023 (J)	0.00024 (J)	0.0002 (J)	
3/14/2022				0.00024 (J)
9/20/2022	<0.001015			<0.001015
9/21/2022		0.000301 (J)	<0.001015	
4/24/2023	<0.001015			
4/25/2023				<0.001015
5/3/2023		<0.001015	<0.001015	
9/27/2023		<0.001015	<0.001015	
10/3/2023	<0.001015			
10/4/2023				<0.001015

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

Date	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.005	0.00273 (J)	<0.000203
8/2/2016	<0.005					
8/3/2016			0.0026 (J)			
9/20/2016	<0.005					
9/21/2016			0.00362 (J)			
9/26/2016				<0.005		
9/27/2016					0.00263 (J)	<0.000203
10/25/2016	<0.005		0.00305 (J)			
10/31/2016					0.00289 (J)	
11/1/2016						<0.000203
11/2/2016				<0.005		
12/13/2016	<0.005		<0.005			
1/11/2017				<0.005	0.00244 (J)	
1/12/2017						0.00316 (J)
2/6/2017			0.00308 (J)			
2/8/2017	<0.005					
2/13/2017				<0.005		0.00227 (J)
2/14/2017					0.00209 (J)	
3/28/2017			<0.005			
3/29/2017	<0.005					
4/3/2017				<0.005		
4/4/2017						<0.000203
4/6/2017					0.00226 (J)	
4/24/2017			<0.005			
4/26/2017	<0.005					
5/15/2017				<0.005		
5/16/2017						<0.000203
5/17/2017					0.0021 (J)	
6/7/2017	<0.005		<0.005			
6/13/2017					<0.005	
6/14/2017				<0.005		<0.000203
1/31/2018					<0.005	
2/1/2018				<0.005		<0.000203
2/19/2018			<0.005			
2/20/2018	<0.005					
5/8/2018						<0.000203
5/9/2018				<0.005		
5/10/2018					<0.005	
5/15/2018	<0.005		<0.005			
10/8/2018					<0.005	
10/9/2018				<0.005		<0.000203
10/16/2018			<0.005			
10/17/2018	<0.005					
2/20/2019		<0.000203				
4/16/2019	<0.005		<0.005			
4/24/2019					<0.005	
5/1/2019				<0.005		<0.000203
8/27/2019				<0.005		
8/28/2019						<0.000203
8/29/2019					<0.005	
9/24/2019		<0.000203	0.00234 (J)			
3/3/2020						<0.000203

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2023 11:32 AM
 Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.005	<0.005	
3/18/2020			<0.005			
3/25/2020	<0.000203					
9/21/2020			<0.005			
9/23/2020	<0.000203					
10/19/2020				<0.005	<0.005	
10/20/2020						<0.000203
2/2/2021	<0.000203		0.000384			
4/20/2021				0.000113 (J)		
4/21/2021						<0.000203
5/3/2021					0.0003	
8/2/2021	<0.000203					
8/10/2021			0.00059			
9/8/2021				8E-05 (J)		
9/14/2021						<0.000203
9/15/2021					0.0003	
2/14/2022	<0.000203					
2/16/2022			0.00055			
3/15/2022				0.00038		
3/16/2022						<0.000203
3/17/2022					0.00091	
8/2/2022			0.00124			
8/9/2022	<0.000203					
9/19/2022				0.00108		
9/20/2022						7.7E-05 (J)
9/26/2022					0.00137	
3/22/2023	<0.000203					
3/27/2023			0.000254			
5/2/2023				0.000545		
5/3/2023					0.00107	<0.000203
9/11/2023	<0.000203					
9/18/2023			0.00251			
10/9/2023					0.00143	
10/11/2023				0.000478		<0.000203

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.005	0.0507
7/20/2016	<0.005					
9/26/2016					<0.005	0.0389
9/27/2016	<0.005					
10/31/2016					<0.005	0.0152
11/1/2016	<0.005					
1/9/2017					<0.005	0.00298 (J)
1/11/2017	<0.005					
2/14/2017					<0.005	0.00507 (J)
2/15/2017	<0.005					
4/3/2017						0.00228 (J)
4/4/2017	<0.005				<0.005	
5/15/2017	<0.005					
5/16/2017					<0.005	0.00418 (J)
6/12/2017					<0.005	<0.005
6/14/2017	<0.005					
1/30/2018	<0.005					
1/31/2018					<0.005	
2/1/2018						<0.005
5/7/2018					<0.005	<0.005
5/8/2018	0.00211 (J)					
10/8/2018	<0.005					
10/9/2018					<0.005	<0.005
4/24/2019					<0.005	<0.005
8/28/2019	<0.005				0.0021 (J)	0.00216 (J)
3/3/2020						<0.005
3/4/2020					<0.005	
3/10/2020	<0.005					
10/13/2020					<0.005	0.00352 (J)
10/19/2020	<0.005					
10/20/2020		<0.005	0.0112	<0.000203		
4/21/2021		0.00086	0.0523	6.88E-05 (J)		0.00213
4/26/2021					0.000703	
5/5/2021	0.00141					
9/1/2021					0.00066	0.00646
9/7/2021	0.00165	0.00072	0.0816			
9/13/2021				<0.000203		
3/8/2022						0.00413
3/9/2022		0.00066	0.0824	<0.000203	0.00065	
3/17/2022	0.00116					
9/19/2022		0.00092	0.0931			
9/20/2022					0.0247	0.00579
9/26/2022	0.00142			<0.000203		
4/18/2023		0.000767	0.0819			
4/19/2023					0.0118	0.0024
5/2/2023				<0.000203		
5/3/2023	0.000717					
9/26/2023		0.00101	0.0872		0.032	
10/2/2023	0.000977					
10/11/2023				<0.000203		0.00421

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.103		
9/28/2016				0.108		
11/1/2016				0.0813		
1/11/2017				0.0669		
2/14/2017				0.084		
4/4/2017				0.0829		
5/16/2017				0.0815		
6/14/2017				0.077		
2/1/2018				0.0499		
5/9/2018				0.0534		
10/9/2018				0.0525		
3/6/2019	<0.000203	<0.000203			<0.005	<0.005
5/1/2019				0.0642		
8/27/2019	<0.000203	<0.000203		0.0498		
9/3/2019					<0.005	<0.005
3/3/2020				0.0471		
3/9/2020			<0.000203			
3/10/2020	<0.000203	<0.000203			<0.005	<0.005
10/13/2020	<0.000203	<0.000203				
10/14/2020			<0.000203			
10/19/2020					<0.005	<0.005
10/21/2020				0.0368		
4/20/2021			<0.000203			
4/26/2021				0.0358		
4/28/2021					0.000658	
5/3/2021						0.00089
5/5/2021	0.00342	<0.000203				
9/7/2021	<0.000203					
9/8/2021					0.00078	0.0008
9/13/2021			<0.000203			
9/14/2021		<0.000203		0.0515		
3/8/2022	<0.000203	<0.000203				
3/9/2022			<0.000203		0.00081	0.00083
3/16/2022				0.0444		
9/14/2022	0.0002 (J)		<0.000203			
9/21/2022		<0.000203			0.001	0.000591
9/26/2022				0.0522		
4/19/2023	9E-05 (J)				0.000959	0.000251
5/1/2023			<0.000203			
5/2/2023		<0.000203		0.0538		
10/3/2023		<0.000203				0.000185 (J)
10/4/2023					0.0011	
10/10/2023	<0.000203		<0.000203	0.0451		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.005					
8/28/2019	<0.005					
3/9/2020	<0.005				<0.0002	
10/13/2020	<0.005					
10/14/2020				<0.000203	<0.0002	<0.005
10/20/2020			<0.000203			
10/26/2020	<0.000203					
4/20/2021			<0.000203	<0.000203		
4/27/2021	<0.000203					0.000718
4/28/2021	0.000291					
5/5/2021					0.000185 (J)	
6/16/2021	<0.000203	<0.000203	<0.000203			0.00068
9/14/2021	0.00017 (J)	<0.000203				
9/15/2021		<0.000203	<0.000203	<0.0002		0.00042
3/15/2022					8E-05 (J)	
3/16/2022		<0.000203	<0.000203			0.00294
3/17/2022	8E-05 (J)	<0.000203				
9/14/2022					<0.0002	0.000482
9/21/2022	<0.000203	<0.000203	<0.000203			
9/26/2022	8.7E-05 (J)					
5/1/2023					8.8E-05 (J)	0.000792
5/2/2023	0.000109 (J)					
5/3/2023	<0.000203	<0.000203	<0.000203			
10/4/2023		<0.000203	<0.000203		8.9E-05 (J)	0.000642
10/11/2023	0.000133 (J)					
10/12/2023	<0.000203					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.00965
3/9/2020		0.00226 (J)				
3/10/2020			<0.000203		<0.000203	
10/14/2020						0.0121
10/15/2020					<0.000203	
10/19/2020		<0.005				
10/20/2020			<0.000203			
10/26/2020	<0.000203					
10/27/2020				<0.000203		
4/20/2021		0.000397				
4/21/2021			<0.000203			
4/27/2021				<0.000203		
4/28/2021					0.000134 (J)	
5/3/2021	<0.000203					0.0112
9/8/2021						0.0123
9/13/2021		0.00027	<0.000203	<0.000203		
9/14/2021	<0.000203				<0.000203	
3/9/2022					7E-05 (J)	
3/14/2022	<0.000203	0.00025				0.0105
3/16/2022			<0.000203	<0.000203		
9/19/2022			<0.000203			
9/20/2022		0.000292		<0.000203		0.0095
9/21/2022	<0.000203				0.000238	
4/19/2023		0.00016 (J)			<0.000203	
4/24/2023				<0.000203		
4/25/2023	<0.000203					0.00778
4/26/2023			<0.000203			
9/27/2023	0.000128 (J)	0.000199 (J)				
10/4/2023					0.000107 (J)	0.00722
10/9/2023				<0.000203		
10/11/2023			<0.000203			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.00796 (J)	<0.000203
9/26/2016					0.00839 (J)	<0.000203
10/31/2016					0.00889 (J)	<0.000203
1/9/2017					0.00787 (J)	<0.000203
2/13/2017					0.00873 (J)	<0.000203
4/3/2017					0.00861 (J)	<0.000203
5/16/2017					0.00736 (J)	<0.000203
6/12/2017					0.00684 (J)	<0.000203
1/29/2018					0.00548 (J)	<0.000203
5/10/2018					0.00529 (J)	<0.000203
10/9/2018					0.00683	<0.000203
4/22/2019						<0.000203
4/29/2019					0.00555	
8/27/2019					0.00562	<0.000203
3/3/2020					0.00456 (J)	<0.000203
3/9/2020	<0.000203			<0.000203		
3/10/2020		<0.000203				
10/13/2020		<0.000203			0.00555	<0.000203
10/19/2020				<0.000203		
10/21/2020	<0.000203					
10/27/2020			<0.000203			
4/21/2021	<0.000203		0.000116 (J)			
5/3/2021				<0.000203		
5/5/2021		<0.000203			0.00451	<0.000203
9/7/2021		<0.000203			0.00455	<0.000203
9/13/2021	<0.000203		9E-05 (J)			
9/15/2021				<0.000203		
3/8/2022		8E-05 (J)				
3/9/2022	<0.000203					
3/16/2022			0.00014 (J)		0.00378	<0.000203
3/17/2022				<0.000203		
9/14/2022			0.000107 (J)			
9/19/2022	<0.000203	<0.000203			0.00397	<0.000203
9/27/2022				<0.000203		
4/18/2023		<0.000203		<0.000203		
4/25/2023			<0.000203			
5/2/2023	<0.000203				0.00405	0.00012 (J)
10/3/2023					0.00359	<0.000203
10/9/2023				<0.000203		
10/10/2023	<0.000203	<0.000203				
10/12/2023			0.000183 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.0427					
7/26/2016			<0.000203	0.0648		
9/27/2016	0.0401					
9/28/2016			<0.000203	0.0673		
11/1/2016	0.0374			0.0605		
11/2/2016			<0.000203			
1/9/2017	0.0291			0.0504		
1/10/2017			<0.000203			
2/13/2017	0.0368			0.065		
2/14/2017			<0.000203			
4/3/2017			<0.000203	0.0701		
4/4/2017	0.0348					
5/16/2017	0.0379			0.0725		
5/17/2017			<0.000203			
6/12/2017	0.0376		<0.000203	0.0656		
1/29/2018	0.0171					
2/1/2018			<0.000203	0.0564		
5/9/2018	0.0128		<0.000203	0.0641		
10/8/2018	0.011		<0.000203	0.0616		
3/5/2019		0.00889			<0.005	
4/23/2019			<0.000203	0.0471		
4/29/2019	0.0206					
8/27/2019	0.0157	0.0104				
8/28/2019			<0.000203	0.0283	<0.005	
3/2/2020			<0.000203			
3/3/2020				0.0186	<0.005	
3/4/2020	0.0119	0.00216 (J)				
10/14/2020	0.0117	0.00364 (J)				
10/19/2020					<0.005	
10/20/2020				0.00675		<0.000203
10/21/2020			<0.000203			
4/26/2021	0.00667	0.00507				
4/27/2021						<0.000203
4/28/2021				0.00574	0.000466	
5/3/2021			<0.000203			
9/1/2021	0.00719	0.00741		0.00456		<0.000203
9/8/2021			<0.000203		0.00022	
3/8/2022						<0.000203
3/14/2022			<0.000203			
3/15/2022	0.0039	0.013				
3/16/2022				0.00531	0.00021	
9/20/2022			<0.000203			<0.000203
9/21/2022				0.00612		
9/26/2022	0.00501	0.00886			0.000852	
4/24/2023					0.000254	<0.000203
4/25/2023			<0.000203	0.00983		
5/2/2023	0.00283	0.00404				
10/3/2023				0.00795	0.000158 (J)	<0.000203
10/4/2023			<0.000203			
10/10/2023	0.00342					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.000203
9/28/2016				<0.000203
11/2/2016				<0.000203
1/12/2017				<0.000203
2/13/2017				<0.000203
4/3/2017				<0.000203
5/17/2017				<0.000203
6/12/2017				<0.000203
2/1/2018				<0.000203
5/9/2018				<0.000203
10/8/2018				<0.000203
4/23/2019				<0.000203
8/29/2019				<0.000203
3/2/2020				<0.000203
10/15/2020		<0.005	<0.005	
10/20/2020	<0.005			
10/21/2020				<0.000203
4/27/2021	0.000826	0.000206	0.000331	
5/3/2021				<0.000203
9/1/2021	0.00078	0.00011 (J)	0.00016 (J)	
9/8/2021				<0.000203
3/8/2022	0.00067	0.00013 (J)	0.00022	
3/14/2022				<0.000203
9/20/2022	0.000748			<0.000203
9/21/2022		0.000147 (J)	0.000115 (J)	
4/24/2023	0.00152			
4/25/2023				<0.000203
5/3/2023		0.000156 (J)	0.0004	
9/27/2023		9E-05 (J)	0.000124 (J)	
10/3/2023	0.000604			
10/4/2023				<0.000203

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

Date	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016					0.233 (U)	0.604 (U)
8/2/2016	0.0177 (U)					
8/3/2016			0.299 (U)			
9/20/2016	0.725					
9/21/2016			0.835			
9/26/2016				0.499		
9/27/2016					0.82	0.65
10/25/2016	0.494 (U)		0.0629 (U)			
10/31/2016					0.37 (U)	
11/1/2016						0.458 (U)
11/2/2016				0.637 (U)		
12/13/2016	0.39 (U)		0.547			
1/11/2017				0.475 (U)	0.668	
1/12/2017						0.308 (U)
2/6/2017			0.251 (U)			
2/8/2017	0.455 (U)					
2/13/2017				0.0464 (U)		-0.0581 (U)
2/14/2017					0.36 (U)	
3/28/2017			-0.109 (U)			
3/29/2017	0.251 (U)					
4/3/2017				0.335 (U)		
4/4/2017						0.288 (U)
4/6/2017					0.519	
4/24/2017			0.293 (U)			
4/26/2017	0.0762 (U)					
5/15/2017				0.409 (U)		
5/16/2017						0.119 (U)
5/17/2017					-0.497 (U)	
6/7/2017	0.32 (U)		0.529			
6/13/2017					0.147 (U)	
6/14/2017				0.261 (U)		0.129 (U)
1/29/2018				0.693		
1/30/2018						0.31 (U)
1/31/2018					0.82	
2/19/2018			0.497			
2/20/2018	0.465					
5/8/2018						0.0757 (U)
5/9/2018				0.413 (U)		
5/10/2018					0.383 (U)	
5/15/2018	0.0571 (U)		-0.601 (U)			
10/8/2018					0.193 (U)	
10/9/2018				0.338 (U)		0.5
10/16/2018			0.2 (U)			
10/17/2018	0.482					
2/20/2019		0.398 (U)				
4/16/2019	0.506 (U)		0.733			
4/24/2019					0.601	
5/1/2019				0.312 (U)		0.295 (U)
8/27/2019				0.696		
8/28/2019						0.358 (U)
8/29/2019					0.437 (U)	
9/24/2019		0.373 (U)	0.753			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/3/2020						0.227 (U)
3/9/2020				0.726	0.906	
3/18/2020			0.465 (U)			
3/25/2020	0.0656 (U)					
9/21/2020			1.25			
9/23/2020	0.542 (U)					
10/19/2020				0.335 (U)	0.387 (U)	
10/20/2020						0.0474 (U)
2/2/2021	0.448 (U)		0.223 (U)			
4/20/2021				0.44 (U)		
4/21/2021						0.309 (U)
5/3/2021					0.821 (U)	
8/2/2021	0.738 (U)					
8/10/2021			0.77 (U)			
9/8/2021				0.396 (U)		
9/14/2021						0.279 (U)
9/15/2021					1.43 (U)	
2/14/2022	7.76					
2/16/2022			0.561 (U)			
3/15/2022				0.754 (U)		
3/16/2022						0.579 (U)
3/17/2022					0.232 (U)	
8/2/2022			0.154 (U)			
8/9/2022	0.584 (U)					
9/19/2022				0.933 (U)		
9/20/2022						0.441 (U)
9/26/2022					0.502 (U)	
3/22/2023	0.707 (U)					
3/27/2023			0.142 (U)			
5/2/2023				1.38		
5/3/2023					0.952 (U)	0.618 (U)
9/11/2023	0.308 (U)					
9/18/2023			0.74 (U)			
10/9/2023					0.786 (U)	
10/11/2023				1.12 (U)		0.744 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					0.191 (U)	0.456 (U)
7/20/2016	0.271 (U)					
9/26/2016					0.663	0.854
9/27/2016	0.858					
10/31/2016					0.608	0.268 (U)
11/1/2016	0.456 (U)					
1/9/2017					-0.0687 (U)	0.118 (U)
1/11/2017	0.624 (U)					
2/14/2017					0.459 (U)	0.264 (U)
2/15/2017	0.821					
4/3/2017						0.00348 (U)
4/4/2017	0.258 (U)				0.327 (U)	
5/15/2017	0.382 (U)					
5/16/2017					0.232 (U)	0.229 (U)
6/12/2017					0.123 (U)	0.226 (U)
6/14/2017	0.746					
1/30/2018	0.366 (U)					1.05
1/31/2018					0.516	
5/7/2018					0.615	0.444 (U)
5/8/2018	0.854 (U)					
10/8/2018	0.717					
10/9/2018					0.825	1.15
4/24/2019					0.373	0.317 (U)
8/28/2019	0.577 (U)				0.00424 (U)	0.372 (U)
3/3/2020						-0.0538 (U)
3/4/2020					0.337 (U)	
3/10/2020	1.57					
10/13/2020					0.232 (U)	0.209 (U)
10/19/2020	0.17 (U)					
10/20/2020		0.357 (U)	0.479 (U)	-0.128 (U)		
4/21/2021		0.748 (U)	1.13	0.164 (U)		0.319 (U)
4/26/2021					0.643 (U)	
5/5/2021	0.446 (U)					
9/1/2021					0.37 (U)	0.231 (U)
9/7/2021	0.521 (U)	0.822 (U)	1.24 (U)			
9/13/2021				0.387 (U)		
3/8/2022						0.455 (U)
3/9/2022		0.284 (U)	1.28	0.417 (U)	0.387 (U)	
3/17/2022	0.656 (U)					
9/19/2022		0.762 (U)	1.11 (U)			
9/20/2022					0.359 (U)	0.392 (U)
9/26/2022	0.62 (U)			1 (U)		
4/18/2023		0.555 (U)	0.695 (U)			
4/19/2023					1.05 (U)	0.679 (U)
5/2/2023				0.502 (U)		
5/3/2023	0.659 (U)					
9/26/2023		0.62 (U)	1.18 (U)		1.15 (U)	
10/2/2023	0.524 (U)					
10/11/2023				0.373 (U)		0.36 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.817		
9/28/2016				0.336 (U)		
11/1/2016				0.00962 (U)		
1/11/2017				0.844		
2/14/2017				0.444 (U)		
4/4/2017				0.379 (U)		
5/16/2017				0.37 (U)		
6/14/2017				0.875		
1/30/2018				1.11		
5/9/2018				0.301 (U)		
10/9/2018				1.04		
3/6/2019	0.732	0.229 (U)			0.995	0.23 (U)
5/1/2019				0.29 (U)		
8/27/2019	0.701	0.344 (U)		0.615		
9/3/2019					0.144 (U)	0.37 (U)
3/3/2020				0.361 (U)		
3/9/2020			0.684			
3/10/2020	1.18	0.95			0.276 (U)	0.374 (U)
10/13/2020	0.298 (U)	0.0821 (U)				
10/14/2020			0.362			
10/19/2020					0.154 (U)	0.0854 (U)
10/21/2020				0.448 (U)		
4/20/2021			0.93 (U)			
4/26/2021				0.378 (U)		
4/28/2021					0.46 (U)	
5/3/2021						0.286 (U)
5/5/2021	2.37	0.183 (U)				
9/7/2021	1.32 (U)					
9/8/2021					0.265 (U)	0.505 (U)
9/13/2021			0.231 (U)			
9/14/2021		0.686 (U)		0.96 (U)		
3/8/2022	0.896 (U)	0.528 (U)				
3/9/2022			0.425 (U)		0.408 (U)	0.327 (U)
3/16/2022				0.589 (U)		
9/14/2022	0.73 (U)		0.294 (U)			
9/21/2022		1.46			2.05	0.618 (U)
9/26/2022				0.479 (U)		
4/19/2023	1.19				1.07	0.61 (U)
5/1/2023			0.546 (U)			
5/2/2023		0.349 (U)		0.831 (U)		
10/3/2023		0.294 (U)				0.0623 (U)
10/4/2023					1.43 (U)	
10/10/2023	0.618 (U)		1.33	0.693 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.24 (U)					
8/28/2019	0.908					
3/9/2020	0.202 (U)			4.4		
10/13/2020	0.683					
10/14/2020			0.484	4.78	4.46	
10/20/2020		0.679				
10/26/2020	2.3					
4/20/2021		0.304 (U)	0.41 (U)			
4/27/2021	1.97				1.21	
4/28/2021	0.683 (U)					
5/5/2021				6.25		
6/16/2021	2.99	0.362 (U)	0.73 (U)		3.11	
9/14/2021	0.833 (U)	2.3				
9/15/2021			0.716 (U)	0.662 (U)	7.07	2.48
3/15/2022					6.96	
3/16/2022			1.01 (U)	0.26 (U)		1 (U)
3/17/2022	0.7 (U)	1.17				
9/14/2022					6.2	0.517 (U)
9/21/2022		2.06	1.13	1.48		
9/26/2022	1.23					
5/1/2023					7.55	1.37
5/2/2023	1.11 (U)					
5/3/2023		0.095 (U)	0.833 (U)	0.643 (U)		
10/4/2023			0.183 (U)	0.85 (U)	7.14 (U)	0.825 (U)
10/11/2023	0.819 (U)					
10/12/2023		1.05 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.636 (U)
3/9/2020		0.641				
3/10/2020			0.829		0.4 (U)	
10/14/2020						0.0343 (U)
10/15/2020					0.826	
10/19/2020		0.155 (U)				
10/20/2020			0.598			
10/26/2020	0.0991 (U)					
10/27/2020				-0.0134 (U)		
4/20/2021		0.0931 (U)				
4/21/2021			1.09			
4/27/2021				0.446 (U)		
4/28/2021					0.352 (U)	
5/3/2021	0.455 (U)					0.5 (U)
9/8/2021						0.711 (U)
9/13/2021		0.173 (U)	0.361 (U)	0.605 (U)		
9/14/2021	0.417 (U)				0.784 (U)	
3/9/2022					0.497 (U)	
3/14/2022	0.336 (U)	0.219 (U)				0.655 (U)
3/16/2022			0.539 (U)	0.701 (U)		
9/19/2022			0.756 (U)			
9/20/2022		0.876 (U)		0.684 (U)		0.61 (U)
9/21/2022	0.992 (U)				1.1 (U)	
4/19/2023		0.125 (U)			0.565 (U)	
4/24/2023				0.278 (U)		
4/25/2023	0.577 (U)					0.735 (U)
4/26/2023			0.521 (U)			
9/27/2023	0.32 (U)	0.551 (U)				
10/4/2023					1.08 (U)	0.849 (U)
10/9/2023				0.253 (U)		
10/11/2023			0.5 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.251 (U)	-0.019 (U)
9/26/2016					0.638	0.488 (U)
10/31/2016					0.521 (U)	0.147 (U)
1/9/2017					0.744	0.288 (U)
2/13/2017					-0.0115 (U)	0.226 (U)
4/3/2017					0.0879 (U)	-0.154 (U)
5/16/2017					0.137 (U)	0.303 (U)
6/12/2017					0.589	0.645
1/29/2018					0.634	0.627
5/10/2018					0.147 (U)	-0.0676 (U)
10/9/2018					0.693	0.571
4/22/2019						0.678
4/29/2019					0.0878 (U)	
8/27/2019					0.491 (U)	1.17
3/3/2020					0.258 (U)	0.821
3/9/2020	0.875			0.418 (U)		
3/10/2020		0.943				
10/13/2020		0.0328 (U)			-0.209 (U)	-0.0678 (U)
10/19/2020				-0.0717 (U)		
10/21/2020	0.53					
10/27/2020			0.0202 (U)			
4/21/2021	0.745 (U)		0.74 (U)			
5/3/2021				0.651 (U)		
5/5/2021		0.466 (U)			1.06 (U)	0.195 (U)
9/7/2021		0.878 (U)			0.332 (U)	0.0456 (U)
9/13/2021	0.761 (U)		0.572 (U)			
9/15/2021				0.886 (U)		
3/8/2022		1.37				
3/9/2022	0.822 (U)					
3/16/2022			0.417 (U)		0.257 (U)	0.207 (U)
3/17/2022				0.173 (U)		
9/14/2022			0.748 (U)			
9/19/2022	1.18 (U)	0.386 (U)			0.804 (U)	0.714 (U)
9/27/2022				0.253 (U)		
4/18/2023		0.613 (U)		0.497 (U)		
4/25/2023			0.619 (U)			
5/2/2023	0.915 (U)				0.857 (U)	1.05 (U)
10/3/2023					1.11 (U)	0.393 (U)
10/9/2023				0.142 (U)		
10/10/2023	0.52 (U)	0.609 (U)				
10/12/2023			0.874 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.621					
7/26/2016			0.205 (U)	0.459 (U)		
9/27/2016	0.529 (U)					
9/28/2016			0.403 (U)	0.0516 (U)		
11/1/2016	0.142 (U)			0.279 (U)		
11/2/2016			0.483 (U)			
1/9/2017	0.54 (U)			0.114 (U)		
1/10/2017			0.687			
2/13/2017	0.764			-0.0383 (U)		
2/14/2017			0.5 (U)			
4/3/2017			0.637	0.429 (U)		
4/4/2017	-0.136 (U)					
5/16/2017	0.247 (U)			0.0754 (U)		
5/17/2017			0.421 (U)			
6/12/2017	0.6		0.353 (U)	0.506		
1/29/2018	0.786					
1/31/2018			0.38 (U)	0.433 (U)		
5/9/2018	-0.00808 (U)		0.515 (U)	0.106 (U)		
10/8/2018	0.311 (U)		0.921	0.612		
3/5/2019		0.244 (U)			0.66	
4/23/2019			1.12	0.356		
4/29/2019	0.039 (U)					
8/27/2019	0.533	0.948				
8/28/2019			0.81	0.268 (U)	0.389 (U)	
3/2/2020			0.407 (U)			
3/3/2020				0.177 (U)	-0.0545 (U)	
3/4/2020	0.31 (U)	0.16 (U)				
10/14/2020	0.434 (U)	0.505				
10/19/2020					0.106 (U)	
10/20/2020				0.321 (U)		0.197 (U)
10/21/2020			-0.12 (U)			
4/26/2021	0.394 (U)	0.233 (U)				
4/27/2021						0.334 (U)
4/28/2021				0.156 (U)	0.0421 (U)	
5/3/2021			0.646 (U)			
9/1/2021	0.238 (U)	0 (U)		0.132 (U)		1.4
9/8/2021			0.745 (U)		0.891 (U)	
3/8/2022						0.263 (U)
3/14/2022			0.571 (U)			
3/15/2022	0.285 (U)	0.496 (U)				
3/16/2022				0.199 (U)	0.493 (U)	
9/20/2022			0.714 (U)			0.872 (U)
9/21/2022				0.398 (U)		
9/26/2022	0.525 (U)	1.04 (U)			0.85 (U)	
4/24/2023					1.27	0.863 (U)
4/25/2023			1.49	0.257 (U)		
5/2/2023	0.203 (U)	0.838 (U)				
10/3/2023				0.629 (U)	0.486 (U)	0.339 (U)
10/4/2023			1.22 (U)			
10/10/2023	0.771 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.331 (U)
9/28/2016				0.556 (U)
11/2/2016				0.217 (U)
1/12/2017				0.432 (U)
2/13/2017				0.279 (U)
4/3/2017				0.195 (U)
5/17/2017				0.569 (U)
6/12/2017				0.48 (U)
1/31/2018				0.851
5/9/2018				0.171 (U)
10/8/2018				0.44 (U)
4/23/2019				0.267 (U)
8/29/2019				0.355 (U)
3/2/2020				0.213 (U)
10/15/2020		0.897	0.222 (U)	
10/20/2020	0.398 (U)			
10/21/2020				0.0492 (U)
4/27/2021	0.846 (U)	0.699 (U)	0.157 (U)	
5/3/2021				0.328 (U)
9/1/2021	0.627 (U)	0.667 (U)	0.272 (U)	
9/8/2021				1.16 (U)
3/8/2022	0.649 (U)	0.145 (U)	0.447 (U)	
3/14/2022				0.253 (U)
9/20/2022	0.445 (U)			0.47 (U)
9/21/2022		1.24	0.391 (U)	
4/24/2023	0.804 (U)			
4/25/2023				0.537 (U)
5/3/2023		0.453 (U)	0.709 (U)	
9/27/2023		0.54 (U)	0.446 (U)	
10/3/2023	0.195 (U)			
10/4/2023				0.813 (U)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.134 (J)	0.439	0.155 (J)
8/2/2016	0.161 (J)					
8/3/2016			0.125 (J)			
9/20/2016	0.122 (J)					
9/21/2016			0.098 (J)			
9/26/2016				0.061 (J)		
9/27/2016					0.336	0.097 (J)
10/25/2016	0.058 (J)		0.025 (J)			
10/31/2016					0.26 (J)	
11/1/2016						0.038 (J)
11/2/2016				0.024 (J)		
12/13/2016	0.072 (J)		0.045 (J)			
1/11/2017				<0.3	0.21 (J)	
1/12/2017						<0.3
2/6/2017			0.1 (D)			
2/8/2017	0.16 (D)					
2/13/2017				0.13		0.13
2/14/2017					0.34	
3/28/2017			0.08 (JD)			
3/29/2017	0.14 (D)					
4/3/2017				0.15		
4/4/2017						0.14
4/6/2017					0.38	
4/24/2017			0.09 (JD)			
4/26/2017	0.16 (D)					
5/15/2017				0.14		
5/16/2017						0.14
5/17/2017					0.33	
6/7/2017	0.15		0.08 (J)			
6/13/2017					0.34	
6/14/2017				0.15		0.14
8/21/2017			0.08 (J)			
8/22/2017	0.18					
9/19/2017				0.17		0.16
9/21/2017					0.43	
1/31/2018					0.42	
2/1/2018				0.15		0.12
2/19/2018			0.08 (J)			
2/20/2018	0.17					
5/8/2018						0.13
5/9/2018				0.17		
5/10/2018					0.42	
5/15/2018	0.17		0.1			
10/8/2018					0.49	
10/9/2018				0.19		0.15
10/16/2018			0.09 (J)			
10/17/2018	0.19					
2/20/2019		0.239				
4/16/2019	0.197		0.143			
4/24/2019					0.433	
5/1/2019				0.143		0.118
8/27/2019				0.159		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
8/28/2019						0.13
8/29/2019					0.445	
9/24/2019	0.245		0.128			
3/3/2020						0.134
3/9/2020				0.179	0.517	
3/18/2020			0.108			
3/25/2020	0.243					
9/21/2020			0.125			
9/23/2020	0.278					
10/19/2020				0.16	0.608	
10/20/2020						0.126
2/2/2021	0.244		0.114			
4/20/2021				0.165		
4/21/2021						0.111
5/3/2021					0.599	
8/2/2021	0.276					
8/10/2021			0.0924 (J)			
9/8/2021				0.188		
9/14/2021						0.136
9/15/2021					0.727	
2/14/2022	0.237					
2/16/2022			0.0616 (J)			
3/15/2022				0.142		
3/16/2022						0.107 (J)
3/17/2022					1.86	
8/2/2022			0.0815 (J)			
8/9/2022	0.245					
9/19/2022				0.164		
9/20/2022						0.0923 (J)
9/26/2022					1.12	
3/22/2023	0.198					
3/27/2023			0.112 (J)			
5/2/2023				0.181		
5/3/2023					0.902	0.172
9/11/2023	0.278					
9/18/2023			0.106 (J)			
10/9/2023					0.578	
10/11/2023				0.156		0.117 (J)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					0.111 (J)	0.194 (J)
7/20/2016	0.701					
9/26/2016					0.069 (J)	0.158 (J)
9/27/2016	0.597					
10/31/2016					0.018 (J)	0.068 (J)
11/1/2016	0.502					
1/9/2017					<0.125	<0.3
1/11/2017	0.472					
2/14/2017					0.1	0.14
2/15/2017	0.59					
4/3/2017						0.13
4/4/2017	0.67				0.1	
5/15/2017	0.63					
5/16/2017					0.1	0.13
6/12/2017					0.1	0.14
6/14/2017	0.63					
9/19/2017					0.12	0.16
9/21/2017	0.66					
1/30/2018	0.69					
1/31/2018					0.1	
2/1/2018						0.12
5/7/2018					0.11	0.16
5/8/2018	0.65					
10/8/2018	0.85					
10/9/2018					0.13	0.18
4/24/2019					0.133	0.225
8/28/2019	0.916				0.0974 (J)	0.29
3/3/2020						0.179
3/4/2020					0.111	
3/10/2020	0.929					
10/13/2020					0.125	0.145
10/19/2020	0.978					
10/20/2020		0.146	0.434	0.177		
4/21/2021		0.134	0.402	0.166		0.173
4/26/2021					0.117	
5/5/2021	0.958					
9/1/2021					0.118	0.14
9/7/2021	0.843	0.183	0.532			
9/13/2021				0.171		
3/8/2022						0.155
3/9/2022		0.179	0.573	0.188	0.103 (J)	
3/17/2022	1.21					
9/19/2022		0.156	0.407			
9/20/2022					<0.125	0.145
9/26/2022	0.989			0.215		
4/18/2023		0.264	0.124 (J)			
4/19/2023					0.119 (J)	0.16
5/2/2023				0.167		
5/3/2023	1.18					
9/26/2023		0.221	0.169		0.128	
10/2/2023	1.07					
10/11/2023				0.168		0.141

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.094 (J)		
9/28/2016				0.035 (J)		
11/1/2016				<0.3		
1/11/2017				<0.3		
2/14/2017				0.05 (J)		
4/4/2017				0.07 (J)		
5/16/2017				0.07 (J)		
6/14/2017				0.06 (J)		
9/20/2017				0.12		
2/1/2018				0.1		
5/9/2018				0.13		
10/9/2018				0.1		
3/6/2019	0.133	0.256			0.234	<0.125
5/1/2019				0.108		
8/27/2019	0.16	0.26		0.19		
9/3/2019					0.279	<0.125
3/3/2020				0.262		
3/9/2020			2.41			
3/10/2020	0.166	0.261			0.297	0.0631 (J)
10/13/2020	0.171	0.272				
10/14/2020			2.32			
10/19/2020					0.311	<0.125
10/21/2020				0.236		
4/20/2021			2.51			
4/26/2021				0.406		
4/28/2021					0.303	
5/3/2021						0.0639 (J)
5/5/2021	0.159	0.242				
9/7/2021	0.213					
9/8/2021					0.347	<0.125
9/13/2021			2.59			
9/14/2021		0.273		0.24		
3/8/2022	0.158	0.294				
3/9/2022			2.4		0.329	<0.125
3/16/2022				0.268		
9/14/2022	0.206		1.9			
9/21/2022		0.213			0.289	<0.125
9/26/2022				0.211		
4/19/2023	0.141				0.32	0.0718 (J)
5/1/2023			2.07			
5/2/2023		0.284		0.321		
10/3/2023		0.267				0.0707 (J)
10/4/2023					0.314	
10/10/2023	0.163		2.07	0.232		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.169					
8/28/2019	0.212					
3/9/2020	0.285			0.419		
10/13/2020	0.283					
10/14/2020				0.337	0.422	0.429
10/20/2020			0.311			
10/26/2020	0.142					
4/20/2021			0.246	0.158		
4/27/2021		0.205				0.363
4/28/2021	0.217					
5/5/2021				0.409		
6/16/2021		0.255	0.283	0.231		0.412
9/14/2021	0.2	0.156				
9/15/2021			0.28	0.208	0.433	0.436
3/15/2022					0.403	
3/16/2022			0.222	0.145		0.394
3/17/2022	0.127	0.116 (J)				
9/14/2022					0.41	0.393
9/21/2022		0.142	0.185	0.124 (J)		
9/26/2022	0.158					
5/1/2023					0.371	0.412
5/2/2023	0.223					
5/3/2023		0.334	0.227	0.152		
10/4/2023			0.164	0.133	0.33	0.347
10/11/2023	0.145					
10/12/2023		0.234				

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.173
3/9/2020		0.117				
3/10/2020			0.172		0.132	
10/14/2020						0.223
10/15/2020					0.151	
10/19/2020		0.154				
10/20/2020			0.158			
10/26/2020	0.161					
10/27/2020				0.14		
4/20/2021		0.123				
4/21/2021			0.141			
4/27/2021				0.144		
4/28/2021					0.133	
5/3/2021	0.171					0.185
9/8/2021						0.204
9/13/2021		0.145	0.171	0.164		
9/14/2021	0.175				0.275	
3/9/2022					0.138	
3/14/2022	0.116 (J)	0.111 (J)				0.186
3/16/2022			0.142	<0.125		
9/19/2022			0.12 (J)			
9/20/2022		0.132		0.0929 (J)		0.193
9/21/2022	0.0743 (J)				0.0663 (J)	
4/19/2023		0.147			0.135	
4/24/2023				0.133		
4/25/2023	0.147					0.221
4/26/2023			0.142			
9/27/2023	0.143	0.154				
10/4/2023					0.123 (J)	0.222
10/9/2023				0.114 (J)		
10/11/2023			0.172			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.268 (J)	0.217 (J)
9/26/2016					0.213 (J)	0.192 (J)
10/31/2016					0.158 (J)	0.157 (J)
1/9/2017					0.109 (J)	0.115 (J)
2/13/2017					0.29	0.27
4/3/2017					0.28	0.25
5/16/2017					0.3	0.24
6/12/2017					0.29	0.26
9/20/2017					0.35	0.26
1/29/2018					0.35	0.31
5/10/2018					0.37	0.31
10/9/2018					0.39	0.33
4/22/2019						0.335
4/29/2019					0.343	
8/27/2019					0.361	0.294
3/3/2020					0.397	0.286
3/9/2020	0.361			0.173		
3/10/2020		0.16				
10/13/2020		0.16			0.362	0.311
10/19/2020				0.178		
10/21/2020	0.429					
10/27/2020			0.272			
4/21/2021	0.4		0.412			
5/3/2021				0.167		
5/5/2021		0.139			0.351	0.291
9/7/2021		0.155			0.433	0.361
9/13/2021	0.42		0.49			
9/15/2021				0.201		
3/8/2022		0.129				
3/9/2022	0.302					
3/16/2022			0.4		0.388	0.309
3/17/2022				0.132		
9/14/2022			0.342			
9/19/2022	0.33	0.0646 (J)			0.341	0.304
9/27/2022				0.178		
4/18/2023		0.151		0.185		
4/25/2023			0.295			
5/2/2023	0.4				0.348	0.311
10/3/2023					0.272	0.264
10/9/2023				0.176		
10/10/2023	0.337	0.133				
10/12/2023			0.312			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.252 (J)					
7/26/2016			0.296 (J)	0.108 (J)		
9/27/2016	0.209 (J)					
9/28/2016			0.224 (J)	0.054 (J)		
11/1/2016	0.163 (J)			<0.125		
11/2/2016			0.164 (J)			
1/9/2017	0.13 (J)			<0.125		
1/10/2017			0.114 (J)			
2/13/2017	0.28			0.08 (J)		
2/14/2017			0.31			
4/3/2017			0.3	0.07 (J)		
4/4/2017	0.27					
5/16/2017	0.28			0.09 (J)		
5/17/2017			0.29			
6/12/2017	0.27		0.29	0.1		
9/18/2017			0.37	0.11		
9/20/2017	0.31					
1/29/2018	0.28					
2/1/2018			0.35	0.1		
5/9/2018	0.28		0.36	0.09 (J)		
10/8/2018	0.32		0.43	0.13		
3/5/2019		0.144			0.14	
4/23/2019			0.407	0.167		
4/29/2019	0.226					
8/27/2019	0.237	0.181				
8/28/2019			0.385	0.105	0.155	
3/2/2020			0.382			
3/3/2020				0.121	0.141	
3/4/2020	0.221	0.0996 (J)				
10/14/2020	0.251	0.125				
10/19/2020					0.16	
10/20/2020				0.109		0.122
10/21/2020			0.427			
4/26/2021	0.204	0.106				
4/27/2021						0.126
4/28/2021				0.183	0.142	
5/3/2021			0.388			
9/1/2021	0.281	0.143		0.118		0.16
9/8/2021			0.433		0.178	
3/8/2022						<0.125
3/14/2022			0.405			
3/15/2022	0.154	0.244				
3/16/2022				0.155	0.145	
9/20/2022			0.384			<0.125
9/21/2022				<0.125		
9/26/2022	0.22	0.347			0.152	
4/24/2023					0.185	0.115 (J)
4/25/2023			0.424	0.0863 (J)		
5/2/2023	0.17	0.257				
10/3/2023				0.108 (J)	0.214	0.109 (J)
10/4/2023			0.397			
10/10/2023	0.182					

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				1.05
9/28/2016				0.799
11/2/2016				0.627
1/12/2017				0.609
2/13/2017				0.88
4/3/2017				1.1
5/17/2017				1
6/12/2017				1.1
9/18/2017				1.1
2/1/2018				1
5/9/2018				1.1
10/8/2018				1.3
4/23/2019				1.33
8/29/2019				2.07
3/2/2020				1.9
10/15/2020		0.129	0.114	
10/20/2020	0.222			
10/21/2020				1.89
4/27/2021	0.242	0.149	0.125	
5/3/2021				2.38
9/1/2021	0.245	0.197	0.162	
9/8/2021				2.27
3/8/2022	0.223	0.11 (J)	0.125	
3/14/2022				2.28
9/20/2022	0.177			2.39
9/21/2022		0.178	0.0775 (J)	
4/24/2023	0.195			
4/25/2023				2.23
5/3/2023		0.281	0.138	
9/27/2023		0.188	0.125	
10/3/2023	0.173			
10/4/2023				2.27

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.000203	<0.000203	<0.000203
8/2/2016	<0.005					
8/3/2016			<0.000203			
9/20/2016	<0.005					
9/21/2016			<0.000203			
9/26/2016				<0.000203		
9/27/2016					<0.000203	<0.000203
10/25/2016	<0.005		<0.000203			
10/31/2016					<0.000203	
11/1/2016						<0.000203
11/2/2016				<0.000203		
12/13/2016	<0.005		<0.000203			
1/11/2017				<0.000203	<0.000203	
1/12/2017						<0.000203
2/6/2017			<0.000203			
2/8/2017	<0.005					
2/13/2017				<0.000203		<0.000203
2/14/2017					<0.000203	
3/28/2017			<0.000203			
3/29/2017	<0.005					
4/3/2017				<0.000203		
4/4/2017						<0.000203
4/6/2017					<0.000203	
4/24/2017			<0.000203			
4/26/2017	<0.005					
5/15/2017				<0.000203		
5/16/2017						<0.000203
5/17/2017					<0.000203	
6/7/2017	<0.005		<0.000203			
6/13/2017					<0.000203	
6/14/2017				<0.000203		<0.000203
1/31/2018					<0.000203	
2/1/2018				<0.000203		<0.000203
2/19/2018			<0.000203			
2/20/2018	<0.005					
5/8/2018						<0.000203
5/9/2018				<0.000203		
5/10/2018					<0.000203	
5/15/2018	<0.005		<0.000203			
10/8/2018					<0.000203	
10/9/2018				<0.000203		<0.000203
10/16/2018			<0.000203			
10/17/2018	<0.005					
2/20/2019		0.00189 (J)				
4/16/2019	<0.005		<0.000203			
4/24/2019					<0.000203	
5/1/2019				<0.000203		<0.000203
8/27/2019				<0.000203		
8/28/2019						<0.000203
8/29/2019					<0.000203	
9/24/2019		<0.000203	<0.000203			
3/3/2020						<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2023 11:32 AM
 Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.000203	<0.000203	
3/18/2020			<0.000203			
3/25/2020	<0.000203					
9/21/2020			<0.000203			
9/23/2020	<0.000203					
10/19/2020				<0.000203	<0.000203	
10/20/2020						<0.000203
2/2/2021	<0.000203		8.09E-05 (J)			
4/20/2021				<0.000203		
4/21/2021						<0.000203
5/3/2021					<0.000203	
8/2/2021	<0.000203					
8/10/2021			0.00015 (J)			
9/8/2021				<0.000203		
9/14/2021						<0.000203
9/15/2021					<0.000203	
2/14/2022	<0.000203					
2/16/2022			<0.000203			
3/15/2022				<0.000203		
3/16/2022						<0.000203
3/17/2022					<0.000203	
8/2/2022			8.3E-05 (J)			
8/9/2022	<0.000203					
9/19/2022				<0.000203		
9/20/2022						<0.000203
9/26/2022					<0.000203	
3/22/2023	<0.000203					
3/27/2023			<0.000203			
5/2/2023				<0.000203		
5/3/2023					<0.000203	<0.000203
9/11/2023	<0.000203					
9/18/2023			<0.000203			
10/9/2023					<0.000203	
10/11/2023				<0.000203		<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.000203	<0.000203
7/20/2016	<0.000203					
9/26/2016					<0.000203	<0.000203
9/27/2016	<0.000203					
10/31/2016					<0.000203	<0.000203
11/1/2016	<0.000203					
1/9/2017					<0.000203	<0.000203
1/11/2017	<0.000203					
2/14/2017					<0.000203	<0.000203
2/15/2017	<0.000203					
4/3/2017						<0.000203
4/4/2017	<0.000203				<0.000203	
5/15/2017	<0.000203					
5/16/2017					<0.000203	<0.000203
6/12/2017					<0.000203	<0.000203
6/14/2017	<0.000203					
1/30/2018	<0.000203					
1/31/2018					<0.000203	
2/1/2018						<0.000203
5/7/2018					<0.000203	<0.000203
5/8/2018	<0.000203					
10/8/2018	<0.000203					
10/9/2018					<0.000203	<0.000203
4/24/2019					<0.000203	<0.000203
8/28/2019	<0.000203				<0.000203	<0.000203
3/3/2020						<0.000203
3/4/2020					<0.000203	
3/10/2020	<0.000203					
10/13/2020					<0.000203	<0.000203
10/19/2020	<0.000203					
10/20/2020		<0.000203	<0.0002	<0.000203		
4/21/2021		0.000121 (J)	<0.0002	<0.000203		<0.000203
4/26/2021					<0.000203	
5/5/2021	<0.000203					
9/1/2021					<0.000203	<0.000203
9/7/2021	<0.000203	<0.000203	<0.0002			
9/13/2021				<0.000203		
3/8/2022						<0.000203
3/9/2022		<0.000203	0.00011 (J)	<0.000203	<0.000203	
3/17/2022	<0.000203					
9/19/2022		<0.000203	0.0004			
9/20/2022					<0.000203	<0.000203
9/26/2022	<0.000203				<0.000203	
4/18/2023		<0.000203	0.00101			
4/19/2023					<0.000203	<0.000203
5/2/2023					<0.000203	
5/3/2023	<0.000203					
9/26/2023		<0.000203	0.000686		<0.000203	
10/2/2023	0.000224					
10/11/2023					<0.000203	<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.000203		
9/28/2016				<0.000203		
11/1/2016				<0.000203		
1/11/2017				<0.000203		
2/14/2017				<0.000203		
4/4/2017				<0.000203		
5/16/2017				<0.000203		
6/14/2017				<0.000203		
2/1/2018				<0.000203		
5/9/2018				<0.000203		
10/9/2018				<0.000203		
3/6/2019	<0.000203	<0.000203			<0.000203	<0.000203
5/1/2019				<0.000203		
8/27/2019	<0.000203	<0.000203		<0.000203		
9/3/2019					<0.000203	<0.000203
3/3/2020				<0.000203		
3/9/2020			0.0023 (J)			
3/10/2020	<0.000203	<0.000203			<0.000203	<0.000203
10/13/2020	<0.000203	<0.000203				
10/14/2020			<0.000203			
10/19/2020					<0.000203	<0.000203
10/21/2020				<0.000203		
4/20/2021			<0.000203			
4/26/2021				<0.000203		
4/28/2021					<0.000203	
5/3/2021						<0.000203
5/5/2021	0.00116	<0.000203				
9/7/2021	<0.000203					
9/8/2021					<0.000203	<0.000203
9/13/2021			<0.000203			
9/14/2021		<0.000203		<0.000203		
3/8/2022	<0.000203	<0.000203				
3/9/2022			<0.000203		<0.000203	<0.000203
3/16/2022				<0.000203		
9/14/2022	<0.000203		<0.000203			
9/21/2022		<0.000203			<0.000203	<0.000203
9/26/2022				<0.000203		
4/19/2023	<0.000203				<0.000203	<0.000203
5/1/2023			<0.000203			
5/2/2023		0.000117 (J)		<0.000203		
10/3/2023		<0.000203				<0.000203
10/4/2023					<0.000203	
10/10/2023	<0.000203		<0.000203	<0.000203		

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.000203					
8/28/2019	<0.000203					
3/9/2020	<0.000203				<0.000203	
10/13/2020	<0.000203					
10/14/2020				<0.000203	<0.000203	<0.000203
10/20/2020			<0.000203			
10/26/2020	<0.000203					
4/20/2021			<0.000203	<0.000203		
4/27/2021	<0.000203					<0.000203
4/28/2021	0.000323					
5/5/2021					0.00019 (J)	
6/16/2021		7E-05 (J)	<0.000203	<0.000203		<0.000203
9/14/2021	0.0002 (J)	<0.000203				
9/15/2021			<0.000203	<0.000203	<0.000203	<0.000203
3/15/2022					<0.000203	
3/16/2022			<0.000203	<0.000203		<0.000203
3/17/2022	<0.000203	<0.000203				
9/14/2022					<0.000203	<0.000203
9/21/2022		<0.000203	<0.000203	<0.000203		
9/26/2022	<0.000203					
5/1/2023					<0.000203	<0.000203
5/2/2023	<0.000203					
5/3/2023		<0.000203	<0.000203	<0.000203		
10/4/2023			<0.000203	<0.000203	<0.000203	<0.000203
10/11/2023	<0.000203					
10/12/2023		<0.000203				

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.000203
3/9/2020		<0.000203				
3/10/2020			<0.000203		<0.000203	
10/14/2020						<0.000203
10/15/2020					<0.000203	
10/19/2020		<0.000203				
10/20/2020			<0.000203			
10/26/2020	<0.000203					
10/27/2020				<0.000203		
4/20/2021		<0.000203				
4/21/2021			<0.000203			
4/27/2021				<0.000203		
4/28/2021					<0.000203	
5/3/2021	0.000258					6.88E-05 (J)
9/8/2021						0.0001 (J)
9/13/2021		<0.000203	<0.000203	<0.000203		
9/14/2021	<0.000203				<0.000203	
3/9/2022					<0.000203	
3/14/2022	0.0001 (J)	<0.000203				<0.000203
3/16/2022			<0.000203	<0.000203		
9/19/2022			<0.000203			
9/20/2022		<0.000203		<0.000203		<0.000203
9/21/2022	<0.000203				<0.000203	
4/19/2023		<0.000203			<0.000203	
4/24/2023				<0.000203		
4/25/2023	<0.000203					<0.000203
4/26/2023			<0.000203			
9/27/2023	<0.000203	<0.000203				
10/4/2023					<0.000203	9.9E-05 (J)
10/9/2023				<0.000203		
10/11/2023			<0.000203			

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.000203	<0.000203
9/26/2016					<0.000203	<0.000203
10/31/2016					<0.000203	<0.000203
1/9/2017					<0.000203	<0.000203
2/13/2017					<0.000203	<0.000203
4/3/2017					<0.000203	<0.000203
5/16/2017					<0.000203	<0.000203
6/12/2017					<0.000203	<0.000203
1/29/2018					<0.000203	<0.000203
5/10/2018					<0.000203	<0.000203
10/9/2018					<0.000203	<0.000203
4/22/2019						<0.000203
4/29/2019					<0.000203	
8/27/2019					<0.000203	<0.000203
3/3/2020					<0.000203	<0.000203
3/9/2020	<0.000203			<0.000203		
3/10/2020		<0.000203				
10/13/2020		<0.000203			<0.000203	<0.000203
10/19/2020				<0.000203		
10/21/2020	<0.000203					
10/27/2020			<0.000203			
4/21/2021	<0.000203		<0.000203			
5/3/2021				<0.000203		
5/5/2021		<0.000203			8.4E-05 (J)	<0.000203
9/7/2021		<0.000203			<0.000203	<0.000203
9/13/2021	<0.000203		<0.000203			
9/15/2021				<0.000203		
3/8/2022		<0.000203				
3/9/2022	<0.000203					
3/16/2022			<0.000203		<0.000203	<0.000203
3/17/2022				<0.000203		
9/14/2022			<0.000203			
9/19/2022	<0.000203	<0.000203			<0.000203	<0.000203
9/27/2022				<0.000203		
4/18/2023		7.4E-05 (J)		<0.000203		
4/25/2023			<0.000203			
5/2/2023	<0.000203				<0.000203	<0.000203
10/3/2023					<0.000203	<0.000203
10/9/2023				<0.000203		
10/10/2023	<0.000203	<0.000203				
10/12/2023			<0.000203			

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.000203					
7/26/2016			<0.000203	<0.000203		
9/27/2016	<0.000203					
9/28/2016			<0.000203	<0.000203		
11/1/2016	<0.000203			<0.000203		
11/2/2016			<0.000203			
1/9/2017	<0.000203			<0.000203		
1/10/2017			<0.000203			
2/13/2017	<0.000203			<0.000203		
2/14/2017			<0.000203			
4/3/2017			<0.000203	<0.000203		
4/4/2017	<0.000203					
5/16/2017	<0.000203			<0.000203		
5/17/2017			<0.000203			
6/12/2017	<0.000203		<0.000203	<0.000203		
1/29/2018	<0.000203					
2/1/2018			<0.000203	<0.000203		
5/9/2018	<0.000203		<0.000203	<0.000203		
10/8/2018	<0.000203		<0.000203	<0.000203		
3/5/2019		<0.0002			<0.000203	
4/23/2019			<0.000203	<0.000203		
4/29/2019	<0.000203					
8/27/2019	<0.000203	<0.0002				
8/28/2019			<0.000203	<0.000203	<0.000203	
3/2/2020			<0.000203			
3/3/2020				<0.000203	<0.000203	
3/4/2020	<0.000203	<0.0002				
10/14/2020	<0.000203	<0.0002				
10/19/2020					<0.000203	
10/20/2020				<0.000203		<0.000203
10/21/2020			<0.000203			
4/26/2021	<0.000203	<0.0002				
4/27/2021						<0.000203
4/28/2021				<0.000203	<0.000203	
5/3/2021			<0.000203			
9/1/2021	<0.000203	<0.0002		<0.000203		<0.000203
9/8/2021			<0.000203		<0.000203	
3/8/2022						<0.000203
3/14/2022			<0.000203			
3/15/2022	<0.000203	<0.0002				
3/16/2022				<0.000203	<0.000203	
9/20/2022			<0.000203			<0.000203
9/21/2022				<0.000203		
9/26/2022	<0.000203	7.4E-05 (J)			0.000416	
4/24/2023					0.000991	<0.000203
4/25/2023			<0.000203	<0.000203		
5/2/2023	<0.000203	0.000167 (J)				
10/3/2023				0.000107 (J)	<0.000203	<0.000203
10/4/2023			<0.000203			
10/10/2023	6.9E-05 (J)					

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.000203
9/28/2016				<0.000203
11/2/2016				<0.000203
1/12/2017				<0.000203
2/13/2017				<0.000203
4/3/2017				<0.000203
5/17/2017				<0.000203
6/12/2017				<0.000203
2/1/2018				<0.000203
5/9/2018				<0.000203
10/8/2018				<0.000203
4/23/2019				<0.000203
8/29/2019				<0.000203
3/2/2020				<0.000203
10/15/2020		<0.000203	<0.000203	
10/20/2020	<0.000203			
10/21/2020				<0.000203
4/27/2021	<0.000203	<0.000203	<0.000203	
5/3/2021				<0.000203
9/1/2021	<0.000203	<0.000203	<0.000203	
9/8/2021				<0.000203
3/8/2022	<0.000203	<0.000203	<0.000203	
3/14/2022				<0.000203
9/20/2022	<0.000203			<0.000203
9/21/2022		<0.000203	<0.000203	
4/24/2023	<0.000203			
4/25/2023				<0.000203
5/3/2023		<0.000203	<0.000203	
9/27/2023		<0.000203	<0.000203	
10/3/2023	<0.000203			
10/4/2023				0.000355

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.187	0.189	0.119
8/2/2016	0.0121 (J)					
8/3/2016			0.05			
9/20/2016	0.0116 (J)					
9/21/2016			0.05			
9/26/2016				0.134		
9/27/2016					0.171	0.108
10/25/2016	0.0114 (J)		0.05			
10/31/2016					0.181	
11/1/2016						0.116
11/2/2016				0.137		
12/13/2016	0.0116 (J)		0.05			
1/11/2017				0.137	0.172	
1/12/2017						0.12
2/6/2017			0.05			
2/8/2017	0.0118 (J)					
2/13/2017				0.187		0.149
2/14/2017					0.209	
3/28/2017			0.05			
3/29/2017	0.0118 (J)					
4/3/2017				0.225		
4/4/2017						0.154
4/6/2017					0.203	
4/24/2017			0.05			
4/26/2017	0.05					
5/15/2017				0.15		
5/16/2017						0.128
5/17/2017					0.163	
6/7/2017	<0.02		<0.02			
6/13/2017					0.155	
6/14/2017				0.165		0.118
1/31/2018					0.163	
2/1/2018				0.124		0.229
2/19/2018			<0.02			
2/20/2018	<0.02					
5/8/2018						0.246
5/9/2018				0.166		
5/10/2018					0.178	
5/15/2018	0.0101 (J)		<0.02			
10/8/2018					0.184	
10/9/2018				0.136		0.307
10/16/2018			<0.02			
10/17/2018	<0.02					
2/20/2019		0.0671				
4/16/2019	0.0101 (J)		<0.02			
4/24/2019					0.186	
5/1/2019				0.104		0.327
8/27/2019				0.264		
8/28/2019						0.318
8/29/2019					0.197	
9/24/2019		0.0809	<0.02			
3/3/2020						0.255

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2023 11:32 AM
 Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.123	0.225	
3/18/2020			<0.02			
3/25/2020	0.0646					
9/21/2020			<0.02			
9/23/2020	0.0574					
10/19/2020				0.09	0.166	
10/20/2020						0.297
2/2/2021	0.0585		0.00796 (J)			
4/20/2021				0.154		
4/21/2021						0.421
5/3/2021					0.19	
8/2/2021	0.056					
8/10/2021			0.00832 (J)			
9/8/2021				0.179		
9/14/2021						0.374
9/15/2021					0.187	
2/14/2022	0.0499					
2/16/2022			0.00826 (J)			
3/15/2022				0.156		
3/16/2022						0.172
3/17/2022					0.174	
8/2/2022			0.01 (J)			
8/9/2022	0.0555					
9/19/2022				0.204		
9/20/2022						0.173
9/26/2022					0.267	
3/22/2023	0.0507					
3/27/2023			0.00968 (J)			
5/2/2023				0.206		
5/3/2023					0.354	0.144
9/11/2023	0.0516					
9/18/2023			0.00906 (J)			
10/9/2023					0.281	
10/11/2023				0.192		0.257

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					0.0199 (J)	0.0816
7/20/2016	0.229					
9/26/2016					0.0206 (J)	0.0636
9/27/2016	0.198					
10/31/2016					0.021 (J)	0.0759
11/1/2016	0.204					
1/9/2017					0.0201 (J)	0.0254 (J)
1/11/2017	0.205					
2/14/2017					0.022 (J)	0.0859
2/15/2017	0.274					
4/3/2017						0.0487 (J)
4/4/2017	0.279				0.0216 (J)	
5/15/2017	0.206					
5/16/2017					0.021 (J)	0.0297 (J)
6/12/2017					0.0181 (J)	0.0429 (J)
6/14/2017	0.205					
1/30/2018	0.178					
1/31/2018					0.0169 (J)	
2/1/2018						0.026 (J)
5/7/2018					0.0187 (J)	0.0538
5/8/2018	0.199					
10/8/2018	0.19					
10/9/2018					0.019 (J)	0.0285
4/24/2019					<0.0406	0.0295 (J)
8/28/2019	0.158				0.0199 (J)	0.0555
3/3/2020						0.0278
3/4/2020					0.0195 (J)	
3/10/2020	0.146					
10/13/2020					0.0195 (J)	0.132
10/19/2020	0.12					
10/20/2020		0.0343	0.0475	0.0207		
4/21/2021		0.0356	0.0237	0.0211		0.128
4/26/2021					0.0194 (J)	
5/5/2021	0.124 (R)					
9/1/2021					0.0196 (J)	0.104
9/7/2021	0.176	0.0357	0.0258			
9/13/2021				0.0212		
3/8/2022						0.0901
3/9/2022		0.031	0.0215	0.0196 (J)	0.0177 (J)	
3/17/2022	0.104					
9/19/2022		0.037	0.028			
9/20/2022					0.023	0.177
9/26/2022	0.233			0.0204		
4/18/2023		0.0382	0.0199 (J)			
4/19/2023					0.0226	0.0713
5/2/2023				0.0206		
5/3/2023	0.077					
9/26/2023		0.0435	0.0222		0.0229	
10/2/2023	0.0552					
10/11/2023				0.0199 (J)		0.171

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				0.163		
9/28/2016				0.197		
11/1/2016				0.172		
1/11/2017				0.19		
2/14/2017				0.292		
4/4/2017				0.292		
5/16/2017				0.25		
6/14/2017				0.237		
2/1/2018				0.222		
5/9/2018				0.237		
10/9/2018				0.25		
3/6/2019	0.0597	0.1			0.235	0.0987
5/1/2019				0.228		
8/27/2019	0.0831	0.23		0.257		
9/3/2019					0.278	0.0973
3/3/2020				0.269		
3/9/2020			0.138			
3/10/2020	0.0566	0.0875			0.277	0.094
10/13/2020	0.0845	0.215				
10/14/2020			0.173			
10/19/2020					0.245	0.0797
10/21/2020				0.217		
4/20/2021			0.183			
4/26/2021				0.268		
4/28/2021					0.267	
5/3/2021						0.0783
5/5/2021	0.116	0.167				
9/7/2021	0.0826					
9/8/2021					0.269	0.0783
9/13/2021			0.169			
9/14/2021		0.188		0.27		
3/8/2022	0.0644	0.0926				
3/9/2022			0.124		0.217	0.0594
3/16/2022				0.211		
9/14/2022	0.0898		0.149			
9/21/2022		0.154			0.215	0.0512
9/26/2022				0.221		
4/19/2023	0.0663				0.212	0.0415
5/1/2023			0.195			
5/2/2023		0.112		0.273		
10/3/2023		0.147				0.0379
10/4/2023					0.214	
10/10/2023	0.113		0.106	0.22		

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.0484					
8/28/2019	0.0493					
3/9/2020	0.0252			1.18		
10/13/2020	0.0379					
10/14/2020			0.172	1.2	1.17	
10/20/2020		0.141				
10/26/2020	0.344					
4/20/2021		0.0728	0.0694			
4/27/2021	0.406				1.05	
4/28/2021	0.045					
5/5/2021				1.13		
6/16/2021	0.342	0.0738	0.0722		0.873	
9/14/2021	0.0657	0.46				
9/15/2021		0.0621	0.071	1.16	1.04	
3/15/2022				0.911		
3/16/2022		0.0469	0.0626		0.815	
3/17/2022	0.054	0.369				
9/14/2022				0.87	0.774	
9/21/2022	0.373	0.0542	0.0648			
9/26/2022	0.0548					
5/1/2023				1.3	1.18	
5/2/2023	0.0448					
5/3/2023		0.17	0.0503	0.0756		
10/4/2023		0.0605	0.0798	0.838	0.791	
10/11/2023	0.0567					
10/12/2023	0.135					

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2023 11:32 AM
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.145
3/9/2020		0.0593				
3/10/2020			0.0821		<0.02	
10/14/2020						0.155
10/15/2020					<0.02	
10/19/2020		0.058				
10/20/2020			0.0918			
10/26/2020	0.0427					
10/27/2020				0.135		
4/20/2021		0.0576				
4/21/2021			0.108			
4/27/2021				0.145		
4/28/2021					<0.02	
5/3/2021	0.0441					0.153
9/8/2021						0.175
9/13/2021		0.0606	0.0967	0.147		
9/14/2021	0.0441				<0.02	
3/9/2022					<0.02	
3/14/2022	0.0415	0.0531				0.132
3/16/2022			0.088	0.117		
9/19/2022			0.0948			
9/20/2022		0.0506		0.124		0.158
9/21/2022	0.0404				<0.02	
4/19/2023		0.0487			<0.02	
4/24/2023				0.137		
4/25/2023	0.0489					0.174
4/26/2023			0.107			
9/27/2023	0.0574	0.049				
10/4/2023					<0.02	0.152
10/9/2023				0.122		
10/11/2023			0.0922			

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.128	0.186
9/26/2016					0.12	0.149
10/31/2016					0.128	0.161
1/9/2017					0.124	0.156
2/13/2017					0.167	0.244
4/3/2017					0.163	0.25
5/16/2017					0.12	0.199
6/12/2017					0.119	0.188
1/29/2018					0.11	0.164
5/10/2018					0.112	0.183
10/9/2018					0.123	0.175
4/22/2019						0.243
4/29/2019					0.104	
8/27/2019					0.115	0.246
3/3/2020					0.11	0.294
3/9/2020	0.164			0.0662		
3/10/2020		0.0306				
10/13/2020		0.0305			0.121	0.347
10/19/2020				0.0635		
10/21/2020	0.156					
10/27/2020			0.161			
4/21/2021	0.218		0.247			
5/3/2021				0.0663		
5/5/2021		0.0298			0.116	0.358
9/7/2021		0.0298			0.12	0.347
9/13/2021	0.188		0.297			
9/15/2021				0.066		
3/8/2022		0.0264				
3/9/2022	0.13					
3/16/2022			0.294		0.0914	0.271
3/17/2022				0.0588		
9/14/2022			0.285			
9/19/2022	0.14	0.0284			0.101	0.261
9/27/2022				0.0586		
4/18/2023		0.0264		0.0583		
4/25/2023			0.373			
5/2/2023	0.163				0.104	0.274
10/3/2023					0.0938	0.203
10/9/2023				0.0608		
10/10/2023	0.132	0.0279				
10/12/2023			0.29			

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	0.105					
7/26/2016			0.249	0.0874		
9/27/2016	0.0988					
9/28/2016			0.223	0.0812		
11/1/2016	0.104			0.0841		
11/2/2016			0.229			
1/9/2017	0.102			0.0842		
1/10/2017			0.227			
2/13/2017	0.136			0.101		
2/14/2017			0.315			
4/3/2017			0.307	0.102		
4/4/2017	0.134					
5/16/2017	0.1			0.0778		
5/17/2017			0.247			
6/12/2017	0.0992		0.237	0.0784		
1/29/2018	0.0852					
2/1/2018			0.221	0.0732		
5/9/2018	0.0926		0.238	0.079		
10/8/2018	0.0877		0.232	0.077		
3/5/2019		0.0578			0.145	
4/23/2019			0.229	0.0822		
4/29/2019	0.0729					
8/27/2019	0.0741	0.0788				
8/28/2019			0.237	0.0853	0.1	
3/2/2020			0.237			
3/3/2020				0.0877	0.104	
3/4/2020	0.0851	0.0341				
10/14/2020	0.0651	0.0601				
10/19/2020					0.0971	
10/20/2020				0.0785		0.12
10/21/2020			0.193			
4/26/2021	0.0758	0.0371				
4/27/2021						0.13
4/28/2021				0.0865	0.109	
5/3/2021			0.228			
9/1/2021	0.0716	0.0507		0.0856		0.13
9/8/2021			0.229		0.121	
3/8/2022						0.105
3/14/2022			0.189			
3/15/2022	0.0575	0.12				
3/16/2022				0.0731	0.097	
9/20/2022			0.195			0.108
9/21/2022				0.0774		
9/26/2022	0.0674	0.155			0.0938	
4/24/2023					0.0866	0.124
4/25/2023			0.243	0.0898		
5/2/2023	0.064	0.0434				
10/3/2023				0.0471	0.067	0.106
10/4/2023			0.203			
10/10/2023	0.0672					

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.228
9/28/2016				0.158
11/2/2016				0.179
1/12/2017				0.166
2/13/2017				0.243
4/3/2017				0.216
5/17/2017				0.177
6/12/2017				0.161
2/1/2018				0.133
5/9/2018				0.139
10/8/2018				0.137
4/23/2019				0.134
8/29/2019				0.164
3/2/2020				0.147
10/15/2020		0.0815	0.0413	
10/20/2020	0.143			
10/21/2020				0.127
4/27/2021	0.156	0.0818	0.045	
5/3/2021				0.177
9/1/2021	0.16	0.0827	0.0464	
9/8/2021				0.17
3/8/2022	0.139	0.0682	0.04	
3/14/2022				0.143
9/20/2022	0.155			0.138
9/21/2022		0.0642	0.0421	
4/24/2023	0.173			
4/25/2023				0.158
5/3/2023		0.071	0.0464	
9/27/2023		0.0583	0.0419	
10/3/2023	0.155			
10/4/2023				0.125

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.0005	<0.0005	<0.0005
8/2/2016	0.0005					
8/3/2016			0.0005			
9/20/2016	0.0005					
9/21/2016			0.0005			
9/26/2016				<0.0005		
9/27/2016					<0.0005	<0.0005
10/25/2016	0.0005		0.0005			
10/31/2016					<0.0005	
11/1/2016						<0.0005
11/2/2016				<0.0005		
12/13/2016	0.0005		0.0005			
1/11/2017				<0.0005	<0.0005	
1/12/2017						<0.0005
2/6/2017			0.0005			
2/8/2017	0.0005					
2/13/2017				<0.0005		<0.0005
2/14/2017					<0.0005	
3/28/2017			0.0005			
3/29/2017	0.0005					
4/3/2017				<0.0005		
4/4/2017						<0.0005
4/6/2017					<0.0005	
4/24/2017			0.0005			
4/26/2017	0.0005					
5/15/2017				<0.0005		
5/16/2017						<0.0005
5/17/2017					<0.0005	
6/7/2017	<0.0005		<0.0005			
6/13/2017					<0.0005	
6/14/2017				<0.0005		<0.0005
1/31/2018					<0.0005	
2/1/2018				<0.0005		<0.0005
2/19/2018			<0.0005			
2/20/2018	<0.0005					
5/8/2018						<0.0005
5/9/2018				<0.0005		
5/10/2018					<0.0005	
5/15/2018	<0.0005		<0.0005			
10/8/2018					<0.0005	
10/9/2018				<0.0005		<0.0005
10/16/2018			<0.0005			
10/17/2018	<0.0005					
2/20/2019		<0.0005				
4/16/2019	<0.0005		<0.0005			
4/24/2019					<0.0005	
5/1/2019				<0.0005		<0.0005
8/27/2019				<0.0005		
8/28/2019						<0.0005
8/29/2019					<0.0005	
9/24/2019		<0.0005	<0.0005			
3/3/2020						<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2023 11:32 AM
Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.0005	<0.0005	
3/18/2020			<0.0005			
3/25/2020	<0.0005					
9/21/2020			<0.0005			
9/23/2020	<0.0005					
10/19/2020				<0.0005	<0.0005	
10/20/2020						<0.0005
2/2/2021	<0.0005		<0.0005			
4/20/2021				<0.0005		
4/21/2021						<0.0005
5/3/2021					<0.0005	
8/2/2021	<0.0005					
8/10/2021			<0.0005			
9/8/2021				<0.0005		
9/14/2021						<0.0005
9/15/2021					<0.0005	
2/14/2022	<0.0005					
2/16/2022			<0.0005			
3/15/2022				<0.0005		
3/16/2022						<0.0005
3/17/2022					<0.0005	
8/2/2022			<0.0005			
8/9/2022	<0.0005					
9/19/2022				<0.0005		
9/20/2022						<0.0005
9/26/2022					<0.0005	
3/22/2023	<0.0005					
3/27/2023			<0.0005			
5/2/2023				<0.0005		
5/3/2023					<0.0005	<0.0005
9/11/2023	<0.0005					
9/18/2023			<0.0005			
10/9/2023					<0.0005	
10/11/2023				<0.0005		<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.0005	<0.0005
7/20/2016	<0.0005					
9/26/2016					<0.0005	<0.0005
9/27/2016	<0.0005					
10/31/2016					<0.0005	<0.0005
11/1/2016	<0.0005					
1/9/2017					<0.0005	<0.0005
1/11/2017	<0.0005					
2/14/2017					<0.0005	<0.0005
2/15/2017	<0.0005					
4/3/2017						<0.0005
4/4/2017	<0.0005				<0.0005	
5/15/2017	<0.0005					
5/16/2017					<0.0005	<0.0005
6/12/2017					<0.0005	<0.0005
6/14/2017	<0.0005					
1/30/2018	<0.0005					
1/31/2018					<0.0005	
2/1/2018						<0.0005
5/7/2018					<0.0005	<0.0005
5/8/2018	<0.0005					
10/8/2018	<0.0005					
10/9/2018					<0.0005	<0.0005
4/24/2019					0.000316 (J)	<0.0005
8/28/2019	<0.0005				<0.0005	<0.0005
3/3/2020						<0.0005
3/4/2020					<0.0005	
3/10/2020	<0.0005					
10/13/2020					<0.0005	<0.0005
10/19/2020	<0.0005					
10/20/2020		<0.0005	<0.0005	<0.0005		
4/21/2021		<0.0005	<0.0005	<0.0005		<0.0005
4/26/2021					<0.0005	
5/5/2021	<0.0005					
9/1/2021					<0.0005	<0.0005
9/7/2021	<0.0005	<0.0005	<0.0005			
9/13/2021				<0.0005		
3/8/2022						<0.0005
3/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	
3/17/2022	<0.0005					
9/19/2022		<0.0005	<0.0005			
9/20/2022					<0.0005	<0.0005
9/26/2022	<0.0005				<0.0005	
4/18/2023		<0.0005	<0.0005			
4/19/2023					<0.0005	<0.0005
5/2/2023					<0.0005	
5/3/2023	<0.0005					
9/26/2023		<0.0005	<0.0005		<0.0005	
10/2/2023	<0.0005					
10/11/2023				<0.0005		<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.0005		
9/28/2016				<0.0005		
11/1/2016				<0.0005		
1/11/2017				<0.0005		
2/14/2017				<0.0005		
4/4/2017				<0.0005		
5/16/2017				<0.0005		
6/14/2017				<0.0005		
2/1/2018				<0.0005		
5/9/2018				<0.0005		
10/9/2018				<0.0005		
3/6/2019	<0.0005	<0.0005			<0.0005	<0.0005
5/1/2019				<0.0005		
8/27/2019	<0.0005	<0.0005		<0.0005		
9/3/2019					<0.0005	<0.0005
3/3/2020				<0.0005		
3/9/2020			<0.0005			
3/10/2020	<0.0005	<0.0005			<0.0005	<0.0005
10/13/2020	<0.0005	<0.0005				
10/14/2020			<0.0005			
10/19/2020					<0.0005	<0.0005
10/21/2020				<0.0005		
4/20/2021			<0.0005			
4/26/2021				<0.0005		
4/28/2021					<0.0005	
5/3/2021						<0.0005
5/5/2021	<0.0005	<0.0005				
9/7/2021	<0.0005					
9/8/2021					<0.0005	<0.0005
9/13/2021			<0.0005			
9/14/2021		<0.0005		<0.0005		
3/8/2022	<0.0005	<0.0005				
3/9/2022			<0.0005		<0.0005	<0.0005
3/16/2022				<0.0005		
9/14/2022	<0.0005		<0.0005			
9/21/2022		<0.0005			<0.0005	<0.0005
9/26/2022				<0.0005		
4/19/2023	<0.0005				<0.0005	<0.0005
5/1/2023			<0.0005			
5/2/2023		<0.0005		<0.0005		
10/3/2023		<0.0005				<0.0005
10/4/2023					<0.0005	
10/10/2023	<0.0005		<0.0005	<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.0005					
8/28/2019	<0.0005					
3/9/2020	<0.0005			<0.0005		
10/13/2020	<0.0005					
10/14/2020			<0.0005	<0.0005	<0.0005	
10/20/2020		<0.0005				
10/26/2020	<0.0005					
4/20/2021		<0.0005	<0.0005			
4/27/2021	<0.0005					<0.0005
4/28/2021	<0.0005					
5/5/2021				<0.0005		
6/16/2021	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
9/14/2021	<0.0005	<0.0005				
9/15/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/15/2022					<0.0005	
3/16/2022		<0.0005	<0.0005	<0.0005		<0.0005
3/17/2022	<0.0005	<0.0005				
9/14/2022					<0.0005	<0.0005
9/21/2022	<0.0005	<0.0005	<0.0005	<0.0005		
9/26/2022	<0.0005					
5/1/2023				<0.0005	<0.0005	
5/2/2023	<0.0005					
5/3/2023	<0.0005	<0.0005	<0.0005	<0.0005		
10/4/2023		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/11/2023	<0.0005					
10/12/2023		<0.0005				

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.0005
3/9/2020		<0.0005				
3/10/2020			<0.0005		<0.0005	
10/14/2020						<0.0005
10/15/2020					<0.0005	
10/19/2020		<0.0005				
10/20/2020			<0.0005			
10/26/2020	<0.0005					
10/27/2020				<0.0005		
4/20/2021		<0.0005				
4/21/2021			<0.0005			
4/27/2021				<0.0005		
4/28/2021					<0.0005	
5/3/2021	<0.0005					<0.0005
9/8/2021						<0.0005
9/13/2021		<0.0005	<0.0005	<0.0005		
9/14/2021	<0.0005				<0.0005	
3/9/2022					<0.0005	
3/14/2022	<0.0005	<0.0005				<0.0005
3/16/2022			<0.0005	<0.0005		
9/19/2022			<0.0005			
9/20/2022		<0.0005		<0.0005		<0.0005
9/21/2022	<0.0005				<0.0005	
4/19/2023		<0.0005			<0.0005	
4/24/2023				<0.0005		
4/25/2023	<0.0005					<0.0005
4/26/2023			<0.0005			
9/27/2023	<0.0005	<0.0005				
10/4/2023					<0.0005	<0.0005
10/9/2023				<0.0005		
10/11/2023			<0.0005			

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.0005	<0.0005
9/26/2016					<0.0005	<0.0005
10/31/2016					<0.0005	<0.0005
1/9/2017					<0.0005	<0.0005
2/13/2017					<0.0005	<0.0005
4/3/2017					<0.0005	<0.0005
5/16/2017					<0.0005	<0.0005
6/12/2017					<0.0005	<0.0005
1/29/2018					<0.0005	<0.0005
5/10/2018					<0.0005	<0.0005
10/9/2018					<0.0005	<0.0005
4/22/2019						0.000318 (J)
4/29/2019					<0.0005	
8/27/2019					<0.0005	<0.0005
3/3/2020					<0.0005	<0.0005
3/9/2020	<0.0005			<0.0005		
3/10/2020		<0.0005				
10/13/2020		<0.0005			<0.0005	<0.0005
10/19/2020				<0.0005		
10/21/2020	<0.0005					
10/27/2020			<0.0005			
4/21/2021	<0.0005		<0.0005			
5/3/2021				<0.0005		
5/5/2021		<0.0005			<0.0005	<0.0005
9/7/2021		<0.0005			<0.0005	<0.0005
9/13/2021	<0.0005		<0.0005			
9/15/2021				<0.0005		
3/8/2022		<0.0005				
3/9/2022	<0.0005					
3/16/2022			<0.0005		<0.0005	<0.0005
3/17/2022				<0.0005		
9/14/2022			<0.0005			
9/19/2022	<0.0005	<0.0005			<0.0005	<0.0005
9/27/2022				<0.0005		
4/18/2023		<0.0005		<0.0005		
4/25/2023			<0.0005			
5/2/2023	<0.0005				<0.0005	<0.0005
10/3/2023					<0.0005	<0.0005
10/9/2023				<0.0005		
10/10/2023	<0.0005	<0.0005				
10/12/2023			<0.0005			

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.0005					
7/26/2016			<0.0005	<0.0005		
9/27/2016	<0.0005					
9/28/2016			<0.0005	<0.0005		
11/1/2016	<0.0005			<0.0005		
11/2/2016			<0.0005			
1/9/2017	<0.0005			<0.0005		
1/10/2017			<0.0005			
2/13/2017	<0.0005			<0.0005		
2/14/2017			<0.0005			
4/3/2017			<0.0005	<0.0005		
4/4/2017	<0.0005					
5/16/2017	<0.0005			<0.0005		
5/17/2017			<0.0005			
6/12/2017	<0.0005		<0.0005	<0.0005		
1/29/2018	<0.0005					
2/1/2018			<0.0005	<0.0005		
5/9/2018	<0.0005		<0.0005	<0.0005		
10/8/2018	<0.0005		<0.0005	<0.0005		
3/5/2019		<0.0005			<0.0005	
4/23/2019			0.000319 (J)	<0.0005		
4/29/2019	<0.0005					
8/27/2019	<0.0005	<0.0005				
8/28/2019			<0.0005	<0.0005	<0.0005	
3/2/2020			<0.0005			
3/3/2020				<0.0005	<0.0005	
3/4/2020	<0.0005	<0.0005				
10/14/2020	<0.0005	<0.0005				
10/19/2020					<0.0005	
10/20/2020				<0.0005		<0.0005
10/21/2020			<0.0005			
4/26/2021	<0.0005	<0.0005				
4/27/2021						<0.0005
4/28/2021				<0.0005	<0.0005	
5/3/2021			<0.0005			
9/1/2021	<0.0005	<0.0005		<0.0005		<0.0005
9/8/2021			<0.0005		<0.0005	
3/8/2022						<0.0005
3/14/2022			<0.0005			
3/15/2022	<0.0005	<0.0005				
3/16/2022				<0.0005	<0.0005	
9/20/2022			<0.0005			<0.0005
9/21/2022				<0.0005		
9/26/2022	<0.0005	<0.0005			<0.0005	
4/24/2023					<0.0005	<0.0005
4/25/2023			<0.0005	<0.0005		
5/2/2023	<0.0005	<0.0005				
10/3/2023				<0.0005	<0.0005	<0.0005
10/4/2023			<0.0005			
10/10/2023	<0.0005					

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.0005
9/28/2016				<0.0005
11/2/2016				<0.0005
1/12/2017				<0.0005
2/13/2017				<0.0005
4/3/2017				<0.0005
5/17/2017				<0.0005
6/12/2017				<0.0005
2/1/2018				<0.0005
5/9/2018				<0.0005
10/8/2018				<0.0005
4/23/2019				0.000311 (J)
8/29/2019				<0.0005
3/2/2020				<0.0005
10/15/2020		<0.0005	<0.0005	
10/20/2020	<0.0005			
10/21/2020				<0.0005
4/27/2021	<0.0005	<0.0005	<0.0005	
5/3/2021				<0.0005
9/1/2021	<0.0005	<0.0005	<0.0005	
9/8/2021				<0.0005
3/8/2022	<0.0005	<0.0005	<0.0005	
3/14/2022				<0.0005
9/20/2022	<0.0005			<0.0005
9/21/2022		<0.0005	<0.0005	
4/24/2023	<0.0005			
4/25/2023				<0.0005
5/3/2023		<0.0005	<0.0005	
9/27/2023		<0.0005	<0.0005	
10/3/2023	<0.0005			
10/4/2023				<0.0005

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				0.0108	0.115	<0.01015
8/2/2016	0.01					
8/3/2016			0.01			
9/20/2016	0.01					
9/21/2016			0.01			
9/26/2016				0.0105		
9/27/2016					0.0985	<0.01015
10/25/2016	0.01		0.01			
10/31/2016					0.0971	
11/1/2016						<0.01015
11/2/2016				0.0107		
12/13/2016	0.01		0.01			
1/11/2017				0.0101	0.0866	
1/12/2017						<0.01015
2/6/2017			0.01			
2/8/2017	0.01					
2/13/2017				0.00994 (J)		<0.01015
2/14/2017					0.0895	
3/28/2017			0.01			
3/29/2017	0.01					
4/3/2017				0.00788 (J)		
4/4/2017						<0.01015
4/6/2017					0.0812	
4/24/2017			0.01			
4/26/2017	0.01					
5/15/2017				0.00866 (J)		
5/16/2017						<0.01015
5/17/2017					0.0741	
6/7/2017	<0.01		<0.01015			
6/13/2017					0.0719	
6/14/2017				0.00779 (J)		<0.01015
1/31/2018					0.0943	
2/1/2018				0.0109		<0.01015
2/19/2018			<0.01015			
2/20/2018	<0.01					
5/8/2018						<0.01015
5/9/2018				0.00618 (J)		
5/10/2018					0.069	
5/15/2018	<0.01		<0.01015			
10/8/2018					0.0951	
10/9/2018				0.00745 (J)		<0.01015
10/16/2018			<0.01015			
10/17/2018	<0.01					
2/20/2019		0.00577 (J)				
4/16/2019	<0.01		<0.01015			
4/24/2019					0.121	
5/1/2019				0.00932 (J)		<0.01015
8/27/2019				0.00563 (J)		
8/28/2019						<0.01015
8/29/2019					0.158	
9/24/2019		0.00906 (J)	<0.01015			
3/3/2020						<0.01015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				0.0142	0.223	
3/18/2020			<0.01015			
3/25/2020	0.00508 (J)					
9/21/2020			<0.01015			
9/23/2020	0.00664 (J)					
10/19/2020				0.0116	0.305	
10/20/2020						<0.01015
2/2/2021	0.00252		<0.01015			
4/20/2021				0.0072		
4/21/2021						0.000741
5/3/2021					0.296	
8/2/2021	0.00206					
8/10/2021			<0.01015			
9/8/2021				0.00649		
9/14/2021						0.00075
9/15/2021					0.352	
2/14/2022	0.00276					
2/16/2022			0.00012 (J)			
3/15/2022				0.00568		
3/16/2022						0.00039
3/17/2022					0.751	
8/2/2022			<0.01015			
8/9/2022	0.00298					
9/19/2022				0.00547		
9/20/2022						0.00148
9/26/2022					0.74	
3/22/2023	<0.01015					
3/27/2023			<0.01015			
5/2/2023				<0.01015		
5/3/2023					0.665	<0.01015
9/11/2023	<0.01015					
9/18/2023			<0.01015			
10/9/2023					0.358	
10/11/2023				<0.01015		<0.01015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.01015	0.0204
7/20/2016	0.0267					
9/26/2016					<0.01015	0.00799 (J)
9/27/2016	0.0362					
10/31/2016					<0.01015	0.0458
11/1/2016	0.0329					
1/9/2017					<0.01015	0.00431 (J)
1/11/2017	0.0322					
2/14/2017					<0.01015	0.0255
2/15/2017	0.0374					
4/3/2017						0.0119
4/4/2017	0.036				<0.01015	
5/15/2017	0.0365					
5/16/2017					<0.01015	0.00405 (J)
6/12/2017					<0.01015	0.0216
6/14/2017	0.0368					
1/30/2018	0.113					
1/31/2018					<0.01015	
2/1/2018						0.00829 (J)
5/7/2018					<0.01015	0.0256
5/8/2018	0.119					
10/8/2018	0.31					
10/9/2018					<0.01015	0.0114
4/24/2019					<0.01015	0.0148
8/28/2019	0.646				<0.01015	0.107
3/3/2020						0.025
3/4/2020					<0.01015	
3/10/2020	0.49					
10/13/2020					<0.01015	0.0494
10/19/2020	0.858					
10/20/2020		0.00206 (J)	0.00311 (J)	<0.01015		
4/21/2021		0.00592	0.00029	0.000157 (J)		0.0515
4/26/2021					<0.01015	
5/5/2021	0.662					
9/1/2021					8E-05 (J)	0.0336
9/7/2021	0.821	0.00355	0.00017 (J)			
9/13/2021				9E-05 (J)		
3/8/2022						0.0418
3/9/2022		0.00325	0.00014 (J)	0.00012 (J)	0.00011 (J)	
3/17/2022	1.17					
9/19/2022		0.0034	0.00011 (J)			
9/20/2022					0.000518	0.0863
9/26/2022	0.555			<0.01015		
4/18/2023		<0.01015	<0.01015			
4/19/2023					<0.01015	0.0499
5/2/2023				<0.01015		
5/3/2023	0.383					
9/26/2023		<0.01015	<0.01015		<0.01015	
10/2/2023	0.281					
10/11/2023				<0.01015		0.0792

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.01015		
9/28/2016				<0.01015		
11/1/2016				<0.01015		
1/11/2017				<0.01015		
2/14/2017				<0.01015		
4/4/2017				<0.01015		
5/16/2017				<0.01015		
6/14/2017				<0.01015		
2/1/2018				<0.01015		
5/9/2018				<0.01015		
10/9/2018				<0.01015		
3/6/2019	<0.01015	0.00498 (J)			0.0391	<0.01015
5/1/2019				<0.01015		
8/27/2019	<0.01015	0.0131		<0.01015		
9/3/2019					0.055	<0.01015
3/3/2020				<0.01015		
3/9/2020			<0.01			
3/10/2020	<0.01015	0.00972 (J)			0.0593	<0.01015
10/13/2020	<0.01015	0.00832 (J)				
10/14/2020			<0.01			
10/19/2020					0.0683	<0.01015
10/21/2020				0.00458 (J)		
4/20/2021			0.000945			
4/26/2021				0.0018		
4/28/2021					0.0606	
5/3/2021						0.000249
5/5/2021	0.000351	0.00733				
9/7/2021	<0.01015					
9/8/2021					0.0609	0.00039
9/13/2021			0.00058			
9/14/2021		0.00851		0.0021		
3/8/2022	<0.01015	0.0104				
3/9/2022			0.00363		0.0621	0.00037
3/16/2022				0.00207		
9/14/2022	<0.01015		0.0168			
9/21/2022		0.0107			0.0713	0.000368
9/26/2022				0.00166		
4/19/2023	<0.01015				0.075	<0.01015
5/1/2023			0.0055 (J)			
5/2/2023		0.013		<0.01015		
10/3/2023		0.0132				<0.01015
10/4/2023					0.0878	
10/10/2023	<0.01015		0.00685 (J)	<0.01015		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	0.00411 (J)					
8/28/2019	0.00208 (J)					
3/9/2020	<0.01015				0.005 (J)	
10/13/2020	<0.01015					
10/14/2020				<0.01015	0.00351 (J)	<0.01
10/20/2020			0.00251 (J)			
10/26/2020		0.00248 (J)				
4/20/2021			0.00172	0.000515		
4/27/2021		0.009				0.00575
4/28/2021	0.00251					
5/5/2021					0.00321	
6/16/2021		0.0127	0.00089	0.00089		0.00481
9/14/2021	0.00116	0.00811				
9/15/2021			0.00102	0.0004	0.00282	0.00349
3/15/2022					0.00221	
3/16/2022			0.00135	0.00032		0.00535
3/17/2022	0.0005	0.00897				
9/14/2022					0.000638	0.00478
9/21/2022		0.0163	0.00098	0.000304		
9/26/2022	0.000416					
5/1/2023					<0.01015	0.00625 (J)
5/2/2023	<0.01015					
5/3/2023		0.0282	<0.01015	<0.01015		
10/4/2023			<0.01015	<0.01015	<0.01015	0.0137
10/11/2023	<0.01015					
10/12/2023		0.021				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						0.0139
3/9/2020		<0.01015				
3/10/2020			0.00436 (J)		0.0129	
10/14/2020						0.0223
10/15/2020					0.00939 (J)	
10/19/2020		0.00517 (J)				
10/20/2020			0.00856 (J)			
10/26/2020	<0.01015					
10/27/2020				<0.01015		
4/20/2021		0.0017				
4/21/2021			0.00576			
4/27/2021				0.00057		
4/28/2021					0.00777	
5/3/2021	0.00103					0.0166
9/8/2021						0.0184
9/13/2021		0.00156	0.00103	0.00036		
9/14/2021	0.00081				0.00617	
3/9/2022					0.00541	
3/14/2022	0.0007	0.00203				0.0186
3/16/2022			0.00234	0.00032		
9/19/2022			0.00295			
9/20/2022		0.00177		0.00118		0.0318
9/21/2022	0.000966				0.00498	
4/19/2023		<0.01015			<0.01015	
4/24/2023				<0.01015		
4/25/2023	0.00646 (J)					0.0256
4/26/2023			<0.01015			
9/27/2023	<0.01015	<0.01015				
10/4/2023					<0.01015	0.0334
10/9/2023				<0.01015		
10/11/2023			<0.01015			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					0.0216	0.0307
9/26/2016					0.0226	0.0341
10/31/2016					0.0209	0.028
1/9/2017					0.0219	0.0303
2/13/2017					0.0235	0.0295
4/3/2017					0.0238	0.0261
5/16/2017					0.0232	0.0281
6/12/2017					0.0226	0.0298
1/29/2018					0.0236	0.037
5/10/2018					0.0219	0.0331
10/9/2018					0.0228	0.0377
4/22/2019						0.068
4/29/2019					0.0265	
8/27/2019					0.026	0.0557
3/3/2020					0.024	0.0648
3/9/2020	0.00255 (J)			<0.01015		
3/10/2020		0.00217 (J)				
10/13/2020		<0.01015			0.0265	0.0517
10/19/2020				<0.01015		
10/21/2020	0.00201 (J)					
10/27/2020			0.0195			
4/21/2021	0.00534		0.0505			
5/3/2021				<0.01015		
5/5/2021		0.0017			0.0243	0.0449
9/7/2021		0.00096			0.0254	0.0511
9/13/2021	0.00634		0.0711			
9/15/2021				0.0001 (J)		
3/8/2022		0.00121				
3/9/2022	0.00765					
3/16/2022			0.0981		0.0266	0.0488
3/17/2022				<0.01015		
9/14/2022			0.095			
9/19/2022	0.0052	0.0011			0.0264	0.0506
9/27/2022				<0.01015		
4/18/2023		<0.01015		<0.01015		
4/25/2023			0.0996			
5/2/2023	0.00568 (J)				0.0293	0.0661
10/3/2023					0.0267	0.0668
10/9/2023				<0.01015		
10/10/2023	0.00568 (J)	<0.01015				
10/12/2023			0.124			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.01015					
7/26/2016			0.0718	0.00707 (J)		
9/27/2016	<0.01015					
9/28/2016			0.0638	0.00623 (J)		
11/1/2016	<0.01015			0.0059 (J)		
11/2/2016			0.0665			
1/9/2017	<0.01015			0.00476 (J)		
1/10/2017			0.067			
2/13/2017	<0.01015			0.00615 (J)		
2/14/2017			0.0735			
4/3/2017			0.0719	0.00623 (J)		
4/4/2017	<0.01015					
5/16/2017	<0.01015			0.00662 (J)		
5/17/2017			0.0733			
6/12/2017	<0.01015		0.0655	0.00613 (J)		
1/29/2018	<0.01015					
2/1/2018			0.076	0.00656 (J)		
5/9/2018	<0.01015		0.061	0.00525 (J)		
10/8/2018	<0.01015		0.0686	0.00565 (J)		
3/5/2019		0.00512 (J)			0.0065 (J)	
4/23/2019			0.0731	0.00479 (J)		
4/29/2019	<0.01015					
8/27/2019	<0.01015	0.00763 (J)				
8/28/2019			0.0709	0.00285 (J)	0.00782 (J)	
3/2/2020			0.0725			
3/3/2020				0.00282 (J)	0.00777 (J)	
3/4/2020	<0.01015	<0.01				
10/14/2020	<0.01015	<0.01				
10/19/2020					0.00562 (J)	
10/20/2020				<0.01015		0.00424 (J)
10/21/2020			0.0877			
4/26/2021	8.18E-05 (J)	0.00109				
4/27/2021						0.00393
4/28/2021				0.00135	0.00578	
5/3/2021			0.0726			
9/1/2021	7E-05 (J)	0.00134		0.00174		0.00458
9/8/2021			0.0733		0.0061	
3/8/2022						0.00515
3/14/2022			0.0753			
3/15/2022	0.00011 (J)	0.00749				
3/16/2022				0.00145	0.00644	
9/20/2022			0.0901			0.00717
9/21/2022				0.00202		
9/26/2022	0.000153 (J)	0.0278			0.00701	
4/24/2023					0.00758 (J)	<0.01015
4/25/2023			0.0934	<0.01015		
5/2/2023	<0.01015	0.00673 (J)				
10/3/2023				<0.01015	0.00599 (J)	0.0067 (J)
10/4/2023			0.101			
10/10/2023	<0.01015					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				0.0122
9/28/2016				0.00843 (J)
11/2/2016				0.00605 (J)
1/12/2017				0.0049 (J)
2/13/2017				0.00784 (J)
4/3/2017				0.00474 (J)
5/17/2017				0.00447 (J)
6/12/2017				0.003 (J)
2/1/2018				<0.01015
5/9/2018				<0.01015
10/8/2018				<0.01015
4/23/2019				<0.01015
8/29/2019				<0.01015
3/2/2020				<0.01015
10/15/2020		<0.01015	0.00213 (J)	
10/20/2020	0.0356			
10/21/2020				<0.01015
4/27/2021	0.0324	0.00031	0.0015	
5/3/2021				0.000438
9/1/2021	0.0351	0.00035	0.00047	
9/8/2021				0.00029
3/8/2022	0.0333	0.00121	0.00027	
3/14/2022				0.00033
9/20/2022	0.0328			0.000184 (J)
9/21/2022		0.000304	0.000302	
4/24/2023	0.0282			
4/25/2023				<0.01015
5/3/2023		<0.01015	<0.01015	
9/27/2023		<0.01015	<0.01015	
10/3/2023	0.0291			
10/4/2023				<0.01015

Time Series

Constituent: pH, Field (pH) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				7.52	6.73	6.74
8/2/2016	6.8					
8/3/2016			5.84			
9/20/2016	6.8					
9/21/2016			5.99			
9/26/2016				8.96		
9/27/2016					6.82	6.74
10/25/2016	6.85		5.94			
10/31/2016					6.78	
11/1/2016						6.71
11/2/2016				8.51		
12/13/2016	6.8		5.84			
1/11/2017				8.5	6.8	
1/12/2017						6.61
2/6/2017			5.9			
2/8/2017	6.76					
2/13/2017				8.63		6.58
2/14/2017					6.74	
3/28/2017			5.67			
3/29/2017	6.76					
3/30/2017				8.67		6.57
4/3/2017				7.63		
4/4/2017						6.56
4/6/2017					6.73	
4/24/2017			5.79			
4/26/2017	6.71					
5/15/2017				8.67		
5/16/2017						6.56
5/17/2017					6.73	
6/7/2017	6.71		5.71			
6/13/2017					6.71	
6/14/2017				8.39		6.5
8/21/2017			5.7			
8/22/2017	6.84					
9/19/2017				8.78		6.55
9/21/2017					6.8	
1/29/2018				8.84		
1/30/2018						7.09
1/31/2018					6.81	
2/19/2018			5.78			
2/20/2018	6.77					
3/27/2018				8.48 (D)		6.665 (D)
3/28/2018					6.895 (D)	
5/8/2018						7.04
5/9/2018				8.49		
5/10/2018					6.77	
5/15/2018	6.8		5.84			
10/8/2018					6.86	
10/9/2018				9.04		7.3
10/16/2018			5.75 (D)			
10/17/2018	6.67 (D)					
2/20/2019		7.76				

Time Series

Constituent: pH, Field (pH) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
4/16/2019	6.64		5.76			
4/24/2019					6.91	
5/1/2019				11.01 (o)		6.64
8/27/2019				7.48		
8/28/2019						7.22
8/29/2019					6.93	
9/24/2019	7.65		5.27			
3/3/2020						6.6
3/9/2020				11.95 (o)	7.03	
3/18/2020			5.81			
3/25/2020	7.63					
9/21/2020			5.75			
9/23/2020	7.53					
10/19/2020				11.44 (o)	7.05	
10/20/2020						7.26
2/2/2021	7.58		5.69			
4/20/2021				9.55		
4/21/2021						6.54
5/3/2021					7.01	
8/2/2021	7.65					
8/10/2021			5.02			
9/8/2021				9.19		
9/14/2021						6.67
9/15/2021					7.04	
2/14/2022	7.43					
2/16/2022			5.8			
3/15/2022				8.71		
3/16/2022						6.94
3/17/2022					7.24	
8/2/2022			5.78			
8/9/2022	7.55					
9/19/2022				8.09		
9/20/2022						6.7
9/26/2022					7.16	
3/22/2023	7.61					
3/27/2023			5.82			
5/2/2023				8.6		
5/3/2023					7.15	6.52
9/11/2023	7.61					
9/18/2023			5.42			
10/9/2023					7.16	
10/11/2023				7.96		6.59

Time Series

Constituent: pH, Field (pH) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					6.55	6.07
7/20/2016	6.63					
9/26/2016					6.55	5.91
9/27/2016	6.59					
10/31/2016					6.49	6.19
11/1/2016	6.6					
1/9/2017					6.46	6.03
1/11/2017	6.59					
2/14/2017					6.47	6.13
2/15/2017	6.59					
4/3/2017						5.97
4/4/2017	6.54				6.38	
5/15/2017	6.56					
5/16/2017					6.46	5.97
6/12/2017					6.41	6.1
6/14/2017	6.55					
9/19/2017					6.5	6.03
9/21/2017	6.53					
1/30/2018	6.59					5.95
1/31/2018					6.5	
3/28/2018	6.645 (D)				6.49 (D)	6.14 (D)
5/7/2018					6.42	6.01
5/8/2018	6.49					
10/8/2018	6.51					
10/9/2018					6.46	6
4/24/2019					6.46	6.01
8/28/2019	6.63				6.38	6.34
3/3/2020						6.19
3/4/2020					6.43	
3/10/2020	6.52					
10/13/2020					6.42	6.31
10/19/2020	6.5					
10/20/2020		6.81	6.28	6.46		
4/21/2021		6.87	6.19	6.49		6.39
4/26/2021					6.36	
5/5/2021	6.5					
9/1/2021					6.16	6.31
9/7/2021	6.46	6.77	5.98			
9/13/2021				6.3		
3/8/2022						6.15
3/9/2022		6.97	6.05	6.53	6.37	
3/17/2022	6.65					
9/19/2022		7.07	5.65			
9/20/2022					6.32	6.66
9/26/2022	6.71			6.49		
4/18/2023		7.07	5.16			
4/19/2023					6.33	6.35
5/2/2023				6.4		
5/3/2023	6.74					
9/26/2023		7.08	5.05		5.89	
10/2/2023	6.53					
10/11/2023				6.3		6.63

Time Series

Constituent: pH, Field (pH) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				6.03		
9/28/2016				5.96		
11/1/2016				6.02		
1/11/2017				6.11		
2/14/2017				6.16		
4/4/2017				6.1		
5/16/2017				6.12		
6/14/2017				6.11		
9/20/2017				6.16		
1/30/2018				6.17		
3/27/2018				6.19 (D)		
5/9/2018				5.92		
10/9/2018				6.21		
3/6/2019	6.98	7.39			7.14	6.32
5/1/2019				6.25		
8/27/2019	6.98	7.28		6.25		
9/3/2019					7.49	6.34
3/3/2020				6.27		
3/9/2020			8.05			
3/10/2020	7.04	7.28			7.35	6.47
10/13/2020	7	7.23				
10/14/2020			8.25			
10/19/2020					7.33	6.51
10/21/2020				6.29		
4/20/2021			7.97			
4/26/2021				6.33		
4/28/2021					7.29	
5/3/2021						6.29
5/5/2021	6.99	7.31				
9/7/2021	6.82					
9/8/2021					7.37	6.33
9/13/2021			8.63			
9/14/2021		7.39		6.58		
3/8/2022	7.07	7.5				
3/9/2022			8.07		7.38	6.71
3/16/2022				6.14		
9/14/2022	6.55		7.79			
9/21/2022		7.21			7.26	6.33
9/26/2022				6.37		
4/19/2023	6.98				7.3	6.62
5/1/2023			8.02			
5/2/2023		7.52		6.12		
10/3/2023		6.72				6.49
10/4/2023					7.2	
10/10/2023	6.5		7.94	6.18		

Time Series

Constituent: pH, Field (pH) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	7.26					
8/28/2019	7.42					
3/9/2020	7.7			7.6		
10/13/2020	7.68					
10/14/2020				6.84	7.66	7.46
10/20/2020			7.68			
10/26/2020	7.78					
4/20/2021			7.81	6.36		
4/27/2021	7.88					7.45
4/28/2021	7.73					
5/5/2021				7.7		
6/16/2021	7.87	7.7		6.69		7.29
9/14/2021	7.83	8.29				
9/15/2021			8.06	6.88	7.78	7.53
3/15/2022					7.61	
3/16/2022			7.94	6.92		7.48
3/17/2022	7.72	7.96				
9/14/2022					7.59	7.43
9/21/2022		7.82	8.09	6.78		
9/26/2022	7.36					
5/1/2023					7.59	7.4
5/2/2023	7.65					
5/3/2023		8.76	8.35	6.83		
10/4/2023			8.02	6.75	7.63	7.54
10/11/2023	7.49					
10/12/2023		8.75				

Time Series

Constituent: pH, Field (pH) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						6.51
3/9/2020		6.8				
3/10/2020			6.91		7.27	
10/14/2020						6.45
10/15/2020					7.32	
10/19/2020		6.79				
10/20/2020			6.84			
10/26/2020	7.2					
10/27/2020				6.95		
4/20/2021		6.64				
4/21/2021			6.83			
4/27/2021				7.01		
4/28/2021					7.18	
5/3/2021	7.16					6.48
9/8/2021						6.37
9/13/2021		6.62	6.79	7.04		
9/14/2021	7.21				7.36	
3/9/2022					7.35	
3/14/2022	7.17	6.82				6.5
3/16/2022			6.72	6.94		
9/19/2022			6.78			
9/20/2022		6.72		7		6.29
9/21/2022	7.15				7.2	
4/19/2023		6.81			7.28	
4/24/2023				6.98		
4/25/2023	7.13					6.56
4/26/2023			6.77			
9/27/2023	5.62	6.22				
10/4/2023					7.24	6.57
10/9/2023				6.94		
10/11/2023			6.85			

Time Series

Constituent: pH, Field (pH) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					6.72	8.95
9/26/2016					6.76	9.13
10/31/2016					6.72	9.04
1/9/2017					6.73	9.62
2/13/2017					6.73	9.43
3/29/2017					6.68	9.04
4/3/2017					6.73	9.18
5/16/2017					6.71	9.11
6/12/2017					6.79	9.54
9/20/2017					6.8	9.69
1/29/2018					6.82	9.76
3/27/2018					6.91 (D)	9.475 (D)
5/10/2018					6.79	9.44
10/9/2018					6.8	9.34
4/22/2019						9.17
4/29/2019					6.81	
8/27/2019					6.84	9.23
3/3/2020					6.85	9.4
3/9/2020	7.76			7.33		
3/10/2020		6.69				
10/13/2020		6.64			6.9	9.04
10/19/2020				7.32		
10/21/2020	7.79					
10/27/2020			7.54			
4/21/2021	7.81		7.72			
5/3/2021				7.41		
5/5/2021		6.72			6.9	9.1
9/7/2021		6.58			6.86	8.84
9/13/2021	8.2		7.8			
9/15/2021				7.22		
3/8/2022		6.77				
3/9/2022	8.09					
3/16/2022			7.51		7.04	9.05
3/17/2022				7.12		
9/14/2022			7.48			
9/19/2022	8.05	6.23			6.77	8.73
9/27/2022				7.39		
4/18/2023		6.57		7.33		
4/25/2023			7.22			
5/2/2023	7.87				6.82	9.28
10/3/2023					6.5	8.76
10/9/2023				7.12		
10/10/2023	8.04	6.65				
10/12/2023			6.91			

Time Series

Constituent: pH, Field (pH) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	5.82					
7/26/2016			7.01	5.98		
9/27/2016	5.85					
9/28/2016			7.06	6		
11/1/2016	5.79			6		
11/2/2016			7.02			
1/9/2017	5.83			6.04		
1/10/2017			7.17			
2/13/2017	5.78			6.04		
2/14/2017			7.01			
3/29/2017				6.01		
3/30/2017	5.73					
4/3/2017			7.09	6.02		
4/4/2017	5.7					
5/16/2017	5.72			5.92		
5/17/2017			7			
6/12/2017	5.83		7.08	5.99		
9/18/2017			7.09	6.04		
9/20/2017	5.86					
1/29/2018	5.86					
1/31/2018			7.13	6.05		
3/27/2018	6 (D)		7.175 (D)	6.23 (D)		
5/9/2018	5.85		7.03	6.01		
10/8/2018	5.86		7.26	6.1		
3/5/2019		6.5			7.24	
4/23/2019			7.03	6.06		
4/29/2019	5.91					
8/27/2019	6.04	6.38				
8/28/2019			7.08	5.98	7.34	
3/2/2020			7.18			
3/3/2020				6.11	7.14	
3/4/2020	5.96	6.34				
10/14/2020	5.93	6.38				
10/19/2020					7.28	
10/20/2020				6.15		6.78
10/21/2020			7.07			
4/26/2021	5.75	6.34				
4/27/2021						6.8
4/28/2021				6.1	7.15	
5/3/2021			6.96			
9/1/2021	5.76	5.85		6.28		6.77
9/8/2021			7.08		6.98	
3/8/2022						6.81
3/14/2022			6.92			
3/15/2022	6.27	6.68				
3/16/2022				6.07	7.17	
9/20/2022			7.03			6.69
9/21/2022				6.08		
9/26/2022	6.05	6.75			7.76	
4/24/2023					7.98	6.7
4/25/2023			7.37	6.06		
5/2/2023	6.07	6.59				

Time Series

Constituent: pH, Field (pH) Analysis Run 12/22/2023 11:32 AM
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
10/3/2023				6.3	7.87	6.62
10/4/2023			7.1			
10/10/2023	6.36					

Time Series

Constituent: pH, Field (pH) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				7.88
9/28/2016				7.8
11/2/2016				7.86
1/12/2017				7.9
2/13/2017				7.86
3/30/2017				8.06
4/3/2017				8
5/17/2017				7.99
6/12/2017				7.91
9/18/2017				8.04
1/31/2018				8.23
3/27/2018				8.33 (D)
5/9/2018				8.6
10/8/2018				8.31
4/23/2019				8.18
8/29/2019				8.26
3/2/2020				8.34
10/15/2020		6.67	6.42	
10/20/2020	6.54			
10/21/2020				8.16
4/27/2021	6.56	6.68	6.36	
5/3/2021				8.32
9/1/2021	6.57	6.66	6.33	
9/8/2021				8.34
3/8/2022	6.61	6.75	6.28	
3/14/2022				8.47
9/20/2022	6.5			8.07
9/21/2022		6.71	6.49	
4/24/2023	6.54			
4/25/2023				8.46
5/3/2023		6.46	6.34	
9/27/2023		6.35	6.19	
10/3/2023	6.37			
10/4/2023				8.35

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.001015	<0.001015	<0.001015
8/2/2016	0.01					
8/3/2016			0.01			
9/20/2016	0.01					
9/21/2016			0.01			
9/26/2016				<0.001015		
9/27/2016					<0.001015	<0.001015
10/25/2016	0.01		0.01			
10/31/2016					<0.001015	
11/1/2016						<0.001015
11/2/2016				<0.001015		
12/13/2016	0.01		0.01			
1/11/2017				<0.001015	<0.001015	
1/12/2017						<0.001015
2/6/2017			0.01			
2/8/2017	0.01					
2/13/2017				<0.001015		<0.001015
2/14/2017					<0.001015	
3/28/2017			0.01			
3/29/2017	0.01					
4/3/2017				<0.001015		
4/4/2017						<0.001015
4/6/2017					<0.001015	
4/24/2017			0.01			
4/26/2017	0.01					
5/15/2017				<0.001015		
5/16/2017						<0.001015
5/17/2017					<0.001015	
6/7/2017	<0.01		<0.001015			
6/13/2017					<0.001015	
6/14/2017				<0.001015		<0.001015
1/31/2018					<0.001015	
2/1/2018				<0.001015		<0.001015
2/19/2018			<0.001015			
2/20/2018	<0.01					
5/8/2018						<0.001015
5/9/2018				<0.001015		
5/10/2018					<0.001015	
5/15/2018	<0.01		<0.001015			
10/8/2018					<0.001015	
10/9/2018				<0.001015		<0.001015
10/16/2018			<0.001015			
10/17/2018	<0.01					
2/20/2019		<0.001015				
4/16/2019	<0.01		<0.001015			
4/24/2019					<0.001015	
5/1/2019				<0.001015		<0.001015
8/27/2019				<0.001015		
8/28/2019						<0.001015
8/29/2019					<0.001015	
9/24/2019		<0.001015	<0.001015			
3/3/2020						<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.001015	<0.001015	
3/18/2020			<0.001015			
3/25/2020	<0.001015					
9/21/2020			<0.001015			
9/23/2020	<0.001015					
10/19/2020				<0.001015	<0.001015	
10/20/2020						<0.001015
2/2/2021	<0.001015		<0.001015			
4/20/2021				<0.001015		
4/21/2021						<0.001015
5/3/2021					<0.001015	
8/2/2021	<0.001015					
8/10/2021			<0.001015			
9/8/2021				<0.001015		
9/14/2021						<0.001015
9/15/2021					<0.001015	
2/14/2022	<0.001015					
2/16/2022			<0.001015			
3/15/2022				<0.001015		
3/16/2022						<0.001015
3/17/2022					<0.001015	
8/2/2022			<0.001015			
8/9/2022	<0.001015					
9/19/2022				<0.001015		
9/20/2022						<0.001015
9/26/2022					<0.001015	
3/22/2023	<0.001015					
3/27/2023			<0.001015			
5/2/2023				<0.001015		
5/3/2023					<0.001015	<0.001015
9/11/2023	<0.001015					
9/18/2023			<0.001015			
10/9/2023					<0.001015	
10/11/2023				<0.001015		<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.001015	<0.001015
7/20/2016	<0.001015					
9/26/2016					<0.001015	0.00341 (J)
9/27/2016	<0.001015					
10/31/2016					<0.001015	<0.001015
11/1/2016	<0.001015					
1/9/2017					<0.001015	0.00273 (J)
1/11/2017	<0.001015					
2/14/2017					<0.001015	0.00281 (J)
2/15/2017	<0.001015					
4/3/2017						0.00262 (J)
4/4/2017	<0.001015				<0.001015	
5/15/2017	<0.001015					
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
6/14/2017	<0.001015					
1/30/2018	<0.001015					
1/31/2018					<0.001015	
2/1/2018						<0.001015
5/7/2018					<0.001015	0.00204 (J)
5/8/2018	<0.001015					
10/8/2018	<0.001015					
10/9/2018					<0.001015	<0.001015
4/24/2019					<0.001015	<0.001015
8/28/2019	<0.001015				<0.001015	<0.001015
3/3/2020						0.00271 (J)
3/4/2020					<0.001015	
3/10/2020	<0.001015					
10/13/2020					<0.001015	0.00351 (J)
10/19/2020	<0.001015					
10/20/2020		<0.001015	<0.001015	<0.001015		
4/21/2021		<0.001015	<0.001015	<0.001015		0.000975 (J)
4/26/2021					<0.001015	
5/5/2021	<0.001015					
9/1/2021					<0.001015	0.00629
9/7/2021	<0.001015	<0.001015	<0.001015			
9/13/2021				<0.001015		
3/8/2022						0.00171
3/9/2022		<0.001015	<0.001015	<0.001015	<0.001015	
3/17/2022	<0.001015					
9/19/2022		<0.001015	0.000598 (J)			
9/20/2022					<0.001015	<0.001015
9/26/2022	<0.001015				<0.001015	
4/18/2023		<0.001015	<0.001015			
4/19/2023					<0.001015	0.00616
5/2/2023					<0.001015	
5/3/2023	<0.001015					
9/26/2023		<0.001015	<0.001015		<0.001015	
10/2/2023	<0.001015					
10/11/2023					<0.001015	<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.001015		
9/28/2016				<0.001015		
11/1/2016				<0.001015		
1/11/2017				<0.001015		
2/14/2017				<0.001015		
4/4/2017				<0.001015		
5/16/2017				<0.001015		
6/14/2017				<0.001015		
2/1/2018				<0.001015		
5/9/2018				<0.001015		
10/9/2018				<0.001015		
3/6/2019	<0.001015	<0.001015			<0.001015	<0.001015
5/1/2019				<0.001015		
8/27/2019	<0.001015	<0.001015		<0.001015		
9/3/2019					<0.001015	<0.001015
3/3/2020				<0.001015		
3/9/2020			0.00512 (J)			
3/10/2020	<0.001015	<0.001015			<0.001015	<0.001015
10/13/2020	<0.001015	<0.001015				
10/14/2020			<0.001015			
10/19/2020					<0.001015	<0.001015
10/21/2020				<0.001015		
4/20/2021			<0.001015			
4/26/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021						<0.001015
5/5/2021	<0.001015	<0.001015				
9/7/2021	<0.001015					
9/8/2021					<0.001015	<0.001015
9/13/2021			<0.001015			
9/14/2021		<0.001015		<0.001015		
3/8/2022	<0.001015	<0.001015				
3/9/2022			<0.001015		<0.001015	<0.001015
3/16/2022				<0.001015		
9/14/2022	<0.001015		<0.001015			
9/21/2022		<0.001015			<0.001015	<0.001015
9/26/2022				<0.001015		
4/19/2023	<0.001015				<0.001015	<0.001015
5/1/2023			<0.001015			
5/2/2023		<0.001015		<0.001015		
10/3/2023		<0.001015				<0.001015
10/4/2023					<0.001015	
10/10/2023	<0.001015		<0.001015	<0.001015		

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.001015					
8/28/2019	<0.001015					
3/9/2020	<0.001015				<0.001015	
10/13/2020	<0.001015					
10/14/2020				<0.001015	<0.001015	<0.001015
10/20/2020			<0.001015			
10/26/2020	<0.001015					
4/20/2021			<0.001015	<0.001015		
4/27/2021	<0.001015					<0.001015
4/28/2021	<0.001015					
5/5/2021					<0.001015	
6/16/2021	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
9/14/2021	<0.001015	<0.001015				
9/15/2021			<0.001015	<0.001015	<0.001015	<0.001015
3/15/2022					<0.001015	
3/16/2022			<0.001015	<0.001015		<0.001015
3/17/2022	<0.001015	<0.001015				
9/14/2022					<0.001015	<0.001015
9/21/2022		<0.001015	<0.001015	<0.001015		
9/26/2022	<0.001015					
5/1/2023					<0.001015	<0.001015
5/2/2023	<0.001015					
5/3/2023		<0.001015	<0.001015	<0.001015		
10/4/2023			<0.001015	<0.001015	<0.001015	<0.001015
10/11/2023	<0.001015					
10/12/2023		<0.001015				

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.001015
3/9/2020		<0.001015				
3/10/2020			0.00228 (J)		<0.001015	
10/14/2020						<0.001015
10/15/2020					<0.001015	
10/19/2020		<0.001015				
10/20/2020			<0.001015			
10/26/2020	<0.001015					
10/27/2020				<0.001015		
4/20/2021		<0.001015				
4/21/2021			<0.001015			
4/27/2021				<0.001015		
4/28/2021					<0.001015	
5/3/2021	<0.001015					<0.001015
9/8/2021						<0.001015
9/13/2021		<0.001015	<0.001015	<0.001015		
9/14/2021	<0.001015				<0.001015	
3/9/2022					<0.001015	
3/14/2022	<0.001015	<0.001015				<0.001015
3/16/2022			<0.001015	<0.001015		
9/19/2022			<0.001015			
9/20/2022		<0.001015		<0.001015		<0.001015
9/21/2022	<0.001015				<0.001015	
4/19/2023		<0.001015			<0.001015	
4/24/2023				<0.001015		
4/25/2023	<0.001015					<0.001015
4/26/2023			<0.001015			
9/27/2023	<0.001015	<0.001015				
10/4/2023					<0.001015	<0.001015
10/9/2023				<0.001015		
10/11/2023			<0.001015			

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.001015	<0.001015
9/26/2016					<0.001015	<0.001015
10/31/2016					<0.001015	<0.001015
1/9/2017					<0.001015	<0.001015
2/13/2017					<0.001015	<0.001015
4/3/2017					<0.001015	<0.001015
5/16/2017					<0.001015	<0.001015
6/12/2017					<0.001015	<0.001015
1/29/2018					<0.001015	<0.001015
5/10/2018					<0.001015	<0.001015
10/9/2018					<0.001015	<0.001015
4/22/2019						<0.001015
4/29/2019					<0.001015	
8/27/2019					<0.001015	<0.001015
3/3/2020					<0.001015	<0.001015
3/9/2020	0.0461			<0.001015		
3/10/2020		<0.001015				
10/13/2020		<0.001015			<0.001015	<0.001015
10/19/2020				<0.001015		
10/21/2020	<0.001015					
10/27/2020			<0.001015			
4/21/2021	<0.001015		<0.001015			
5/3/2021				<0.001015		
5/5/2021		<0.001015			<0.001015	<0.001015
9/7/2021		<0.001015			<0.001015	<0.001015
9/13/2021	<0.001015		<0.001015			
9/15/2021				<0.001015		
3/8/2022		<0.001015				
3/9/2022	<0.001015					
3/16/2022			<0.001015		<0.001015	<0.001015
3/17/2022				<0.001015		
9/14/2022			<0.001015			
9/19/2022	<0.001015	<0.001015			<0.001015	<0.001015
9/27/2022				<0.001015		
4/18/2023		<0.001015		<0.001015		
4/25/2023			<0.001015			
5/2/2023	<0.001015				<0.001015	<0.001015
10/3/2023					<0.001015	<0.001015
10/9/2023				<0.001015		
10/10/2023	<0.001015	<0.001015				
10/12/2023			<0.001015			

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.001015					
7/26/2016			<0.001015	<0.001015		
9/27/2016	0.0023 (J)					
9/28/2016			<0.001015	<0.001015		
11/1/2016	<0.001015			<0.001015		
11/2/2016			<0.001015			
1/9/2017	0.00278 (J)			<0.001015		
1/10/2017			<0.001015			
2/13/2017	0.00291 (J)			<0.001015		
2/14/2017			<0.001015			
4/3/2017			<0.001015	<0.001015		
4/4/2017	0.00343 (J)					
5/16/2017	0.003 (J)			<0.001015		
5/17/2017			<0.001015			
6/12/2017	0.00255 (J)		<0.001015	<0.001015		
1/29/2018	0.00273 (J)					
2/1/2018			<0.001015	<0.001015		
5/9/2018	<0.001015		<0.001015	<0.001015		
10/8/2018	<0.001015		<0.001015	<0.001015		
3/5/2019		<0.00102			<0.001015	
4/23/2019			<0.001015	<0.001015		
4/29/2019	<0.001015					
8/27/2019	<0.001015	<0.00102				
8/28/2019			<0.001015	<0.001015	<0.001015	
3/2/2020			<0.001015			
3/3/2020				<0.001015	<0.001015	
3/4/2020	<0.001015	<0.00102				
10/14/2020	<0.001015	<0.00102				
10/19/2020					<0.001015	
10/20/2020				<0.001015		<0.001015
10/21/2020			<0.001015			
4/26/2021	0.00112	<0.00102				
4/27/2021						<0.001015
4/28/2021				<0.001015	<0.001015	
5/3/2021			<0.001015			
9/1/2021	0.00077 (J)	<0.00102		<0.001015		<0.001015
9/8/2021			<0.001015		<0.001015	
3/8/2022						<0.001015
3/14/2022			<0.001015			
3/15/2022	<0.001015	<0.00102				
3/16/2022				<0.001015	<0.001015	
9/20/2022			<0.001015			<0.001015
9/21/2022				<0.001015		
9/26/2022	<0.001015	<0.00102			<0.001015	
4/24/2023					<0.001015	<0.001015
4/25/2023			<0.001015	<0.001015		
5/2/2023	0.000539 (J)	0.000535 (J)				
10/3/2023				<0.001015	<0.001015	<0.001015
10/4/2023			<0.001015			
10/10/2023	<0.001015					

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.001015
9/28/2016				<0.001015
11/2/2016				<0.001015
1/12/2017				<0.001015
2/13/2017				<0.001015
4/3/2017				<0.001015
5/17/2017				<0.001015
6/12/2017				<0.001015
2/1/2018				<0.001015
5/9/2018				<0.001015
10/8/2018				<0.001015
4/23/2019				<0.001015
8/29/2019				<0.001015
3/2/2020				<0.001015
10/15/2020		<0.001015	<0.001015	
10/20/2020	<0.001015			
10/21/2020				<0.001015
4/27/2021	<0.001015	<0.001015	<0.001015	
5/3/2021				<0.001015
9/1/2021	<0.001015	<0.001015	<0.001015	
9/8/2021				<0.001015
3/8/2022	<0.001015	<0.001015	<0.001015	
3/14/2022				<0.001015
9/20/2022	<0.001015			<0.001015
9/21/2022		<0.001015	<0.001015	
4/24/2023	<0.001015			
4/25/2023				<0.001015
5/3/2023		<0.001015	<0.001015	
9/27/2023		<0.001015	<0.001015	
10/3/2023	<0.001015			
10/4/2023				<0.001015

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				585	787	637
8/2/2016	12					
8/3/2016			4.2			
9/20/2016	11.2					
9/21/2016			4.27			
9/26/2016				480		
9/27/2016					714	612
10/25/2016	10.1		2.78			
10/31/2016					741	
11/1/2016						619
11/2/2016				462		
12/13/2016	11.4		3.18			
1/11/2017				515	731	
1/12/2017						654
2/6/2017			3.74			
2/8/2017	10.9					
2/14/2017					670	
3/28/2017			3.4 (JD)			
3/29/2017	11 (D)					
3/30/2017				470		650
4/3/2017				560		
4/4/2017						690
4/6/2017					640	
4/24/2017			2.7 (JD)			
4/26/2017	11 (D)					
5/15/2017				410		
5/16/2017						590
5/17/2017					620	
6/7/2017	11		2.7 (J)			
6/13/2017					950	
6/14/2017				450		620
8/21/2017			3.9 (J)			
8/22/2017	11					
9/19/2017				430		630
9/21/2017					660	
3/27/2018				430		620
3/28/2018					730	
5/8/2018						550
5/9/2018				460		
5/10/2018					680	
5/15/2018	11		2.5 (J)			
10/8/2018					750	
10/9/2018				420		450
10/16/2018			2.4 (J)			
10/17/2018	12					
2/20/2019		15.2				
4/16/2019	12.1		4.53			
4/24/2019					950	
5/1/2019				309		549
8/27/2019				639		
8/28/2019						605
8/29/2019					847	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
9/24/2019	11.8		6.61			
3/3/2020						618
3/9/2020				341	1010	
3/18/2020			4.86			
3/25/2020	9.69					
9/21/2020			4.69			
9/23/2020	11.1					
10/19/2020				233	781	
10/20/2020						575
2/2/2021	8.81		4.83			
4/20/2021				305		
4/21/2021						559
5/3/2021					917	
8/2/2021	10.2					
8/10/2021			3.77			
9/8/2021				472		
9/14/2021						588
9/15/2021					910	
2/14/2022	9.09					
2/16/2022			4.68			
3/15/2022				512		
3/16/2022						707
3/17/2022					735	
8/2/2022			4.18			
8/9/2022	8.13					
9/19/2022				548		
9/20/2022						678
9/26/2022					1560	
3/22/2023	10.6					
3/27/2023			4.41			
5/2/2023				445		
5/3/2023					1250	716
9/11/2023	10.7					
9/18/2023			10.1			
10/9/2023					1410	
10/11/2023				555		643

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					69.3	683
7/20/2016	895					
9/26/2016					74.7	707
9/27/2016	841					
10/31/2016					80.6	610
11/1/2016	829					
1/9/2017					77.9	707
1/11/2017	855					
2/14/2017					68	670
2/15/2017	860					
4/3/2017						520
4/4/2017	1100				71	
5/15/2017	900					
5/16/2017					62	470
6/12/2017					77	510
6/14/2017	1100					
9/19/2017					72	460
9/21/2017	1100					
3/28/2018	1300				73	450
5/7/2018					77	430
5/8/2018	1400					
10/8/2018	1500					
10/9/2018					76	580
4/24/2019					91.9	385
8/28/2019	1780				227	384
3/3/2020						198
3/4/2020					93.9	
3/10/2020	1580					
10/13/2020					107	366
10/19/2020	1630					
10/20/2020		65.8	285	39.3		
4/21/2021		151	610	43.1		392
4/26/2021					157	
5/5/2021	1510					
9/1/2021					163	427
9/7/2021	1850	167	871			
9/13/2021				48.8		
3/8/2022						530
3/9/2022		210	902	48.7	123	
3/17/2022	1730					
9/19/2022		179	714			
9/20/2022					352	503
9/26/2022	845			48.700001		
4/18/2023		178	718			
4/19/2023					281	553
5/2/2023				49.400002		
5/3/2023	513					
9/26/2023		217	667		438	
10/2/2023	493					
10/11/2023				52.299999		499

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				1340		
9/28/2016				1680		
11/1/2016				1430		
1/11/2017				1550		
2/14/2017				1500		
4/4/2017				1700		
5/16/2017				1500		
6/14/2017				1700		
9/20/2017				1400		
3/27/2018				1500		
5/9/2018				1300		
10/9/2018				1500		
3/6/2019	60.4	158			904	619
5/1/2019				1580		
8/27/2019	83.6	427		1570		
9/3/2019					820	529
3/3/2020				1690		
3/9/2020			35			
3/10/2020	51.9	98.1			793	550
10/13/2020	81.6	362				
10/14/2020			83.1			
10/19/2020					634	475
10/21/2020				1360		
4/20/2021			167			
4/26/2021				1580		
4/28/2021					645	
5/3/2021						438
5/5/2021	93.2	270				
9/7/2021	65.8					
9/8/2021					718	463
9/13/2021			58.8			
9/14/2021		291		1690		
3/8/2022	62.1	125				
3/9/2022			110		785	398
3/16/2022				1630		
9/14/2022	78.300003		225			
9/21/2022		242			685	297
9/26/2022				1570		
4/19/2023	56.099998				709	242
5/1/2023			142			
5/2/2023		111		1570		
10/3/2023		207				203
10/4/2023					750	
10/10/2023	90.099998		83.5	1530		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

Date	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	116					
8/28/2019	108					
3/9/2020	111			0.908 (J)		
10/13/2020	135					
10/14/2020			184	1.1	5.51	
10/20/2020		36.4				
10/26/2020	7.91					
4/20/2021		31.4	145			
4/27/2021	56.7				27.9	
4/28/2021	136					
5/5/2021				1.38		
6/16/2021	56.8	17.1	147		26.1	
9/14/2021	139	30.9				
9/15/2021		18.4	146	7.45	26.5	
3/15/2022				0.862 (J)		
3/16/2022		24.8	174		33.5	
3/17/2022	137	66.2				
9/14/2022				<2	47	
9/21/2022	128	23	169			
9/26/2022	134					
5/1/2023				3.55	52.299999	
5/2/2023	141					
5/3/2023	277	21	178			
10/4/2023		11.2	197	1.62 (J)	85.5	
10/11/2023	134					
10/12/2023	224					

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						679
3/9/2020		105				
3/10/2020			820		16.3	
10/14/2020						700
10/15/2020					7.29	
10/19/2020		173				
10/20/2020			850			
10/26/2020	61.6					
10/27/2020				410		
4/20/2021		96.2				
4/21/2021			796			
4/27/2021				404		
4/28/2021					21.8	
5/3/2021	69.2					710
9/8/2021						818
9/13/2021		133	764	416		
9/14/2021	66.2				16.2	
3/9/2022					18.2	
3/14/2022	65.4	105				730
3/16/2022			761	414		
9/19/2022			721			
9/20/2022		78.300003		403		752
9/21/2022	62.900002				16.5	
4/19/2023		80.400002			21.200001	
4/24/2023				396		
4/25/2023	114					732
4/26/2023			710			
9/27/2023	124	79.400002				
10/4/2023					14.1	523
10/9/2023				374		
10/11/2023			713			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					900	237
9/26/2016					814	105
10/31/2016					800	94.9
1/9/2017					833	131
3/29/2017					760	160
4/3/2017					860	180
5/16/2017					630	160
6/12/2017					710	160
9/20/2017					590	140
3/27/2018					540	140
5/10/2018					540	120
10/9/2018					700	130
4/22/2019						249
4/29/2019					484	
8/27/2019					529	248
3/3/2020					488	298
3/9/2020	220			31.5		
3/10/2020		182				
10/13/2020		196			473	236
10/19/2020				32.4		
10/21/2020	279					
10/27/2020			285			
4/21/2021	372		559			
5/3/2021				34.8		
5/5/2021		184			501	224
9/7/2021		211			513	243
9/13/2021	257		628			
9/15/2021				36.4		
3/8/2022		199				
3/9/2022	185					
3/16/2022			746		352	227
3/17/2022				36		
9/14/2022			572			
9/19/2022	158	205			352	159
9/27/2022				33.799999		
4/18/2023		197		35.400002		
4/25/2023			519			
5/2/2023	137				264	161
10/3/2023					292	129
10/9/2023				32.900002		
10/10/2023	177	194				
10/12/2023			722			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	981					
7/26/2016			1040	532		
9/27/2016	958					
9/28/2016			1020	540		
11/1/2016	933			521		
11/2/2016			1000			
1/9/2017	896			543		
1/10/2017			995			
2/14/2017			950			
3/29/2017				540		
3/30/2017	930					
4/3/2017			1100	550		
4/4/2017	870					
5/16/2017	780			490		
5/17/2017			930			
6/12/2017	790		940	560		
9/18/2017			830	510		
9/20/2017	710					
3/27/2018	620		780	510		
5/9/2018	600		790	500		
10/8/2018	650		820	490		
3/5/2019		553			526	
4/23/2019			884	638		
4/29/2019	758					
8/27/2019	670	706				
8/28/2019			818	609	228	
3/2/2020			859			
3/3/2020				600	309	
3/4/2020	604	498				
10/14/2020	527	554				
10/19/2020					238	
10/20/2020				513		384
10/21/2020			669			
4/26/2021	554	512				
4/27/2021						390
4/28/2021				551	268	
5/3/2021			752			
9/1/2021	637	619		575		398
9/8/2021			805		332	
3/8/2022						407
3/14/2022			810			
3/15/2022	475	702				
3/16/2022				587	266	
9/20/2022			866			414
9/21/2022				535		
9/26/2022	393	749			240	
4/24/2023					233	421
4/25/2023			744	549		
5/2/2023	368	306				
10/3/2023				426	79.199997	398
10/4/2023			729			
10/10/2023	429					

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				487
9/28/2016				422
11/2/2016				345
1/12/2017				281
3/30/2017				160
4/3/2017				190
5/17/2017				190
6/12/2017				150
9/18/2017				86
3/27/2018				31
5/9/2018				29
10/8/2018				4.7 (J)
4/23/2019				8.17
8/29/2019				92
3/2/2020				19.8
10/15/2020		303	339	
10/20/2020	268			
10/21/2020				7.39
4/27/2021	288	329	342	
5/3/2021				48.2
9/1/2021	279	314	335	
9/8/2021				33.4
3/8/2022	279	296	349	
3/14/2022				51.7
9/20/2022	281			34.599998
9/21/2022		665	305	
4/24/2023	293			
4/25/2023				6.92
5/3/2023		650	343	
9/27/2023		666	358	
10/3/2023	311			
10/4/2023				18.9

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				<0.000203	<0.000203	<0.000203
8/2/2016	0.001					
8/3/2016			0.001			
9/20/2016	0.001					
9/21/2016			0.001			
9/26/2016				<0.000203		
9/27/2016					<0.000203	<0.000203
10/25/2016	0.001		0.001			
10/31/2016					<0.000203	
11/1/2016						<0.000203
11/2/2016				<0.000203		
12/13/2016	0.001		0.001			
1/11/2017				<0.000203	<0.000203	
1/12/2017						<0.000203
2/6/2017			0.001			
2/8/2017	0.001					
2/13/2017				<0.000203		<0.000203
2/14/2017					<0.000203	
3/28/2017			0.001			
3/29/2017	0.001					
4/3/2017				<0.000203		
4/4/2017						<0.000203
4/6/2017					<0.000203	
4/24/2017			0.001			
4/26/2017	0.001					
5/15/2017				<0.000203		
5/16/2017						<0.000203
5/17/2017					<0.000203	
6/7/2017	<0.001		<0.000203			
6/13/2017					<0.000203	
6/14/2017				<0.000203		<0.000203
1/31/2018					<0.000203	
2/1/2018				<0.000203		<0.000203
2/19/2018			<0.000203			
2/20/2018	<0.001					
5/8/2018						<0.000203
5/9/2018				<0.000203		
5/10/2018					<0.000203	
5/15/2018	<0.001		<0.000203			
10/8/2018					<0.000203	
10/9/2018				<0.000203		<0.000203
10/16/2018			<0.000203			
10/17/2018	<0.001					
2/20/2019		<0.000203				
4/16/2019	<0.001		<0.000203			
4/24/2019					<0.000203	
5/1/2019				<0.000203		<0.000203
8/27/2019				<0.000203		
8/28/2019						<0.000203
8/29/2019					<0.000203	
9/24/2019		<0.000203	<0.000203			
3/3/2020						<0.000203

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2023 11:32 AM
Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				<0.000203	<0.000203	
3/18/2020			<0.000203			
3/25/2020	<0.000203					
9/21/2020			<0.000203			
9/23/2020	<0.000203					
10/19/2020				<0.000203	<0.000203	
10/20/2020						<0.000203
2/2/2021	<0.000203		<0.000203			
4/20/2021				<0.000203		
4/21/2021						<0.000203
5/3/2021					<0.000203	
8/2/2021	<0.000203					
8/10/2021			<0.000203			
9/8/2021				<0.000203		
9/14/2021						<0.000203
9/15/2021					<0.000203	
2/14/2022	<0.000203					
2/16/2022			<0.000203			
3/15/2022				<0.000203		
3/16/2022						<0.000203
3/17/2022					<0.000203	
8/2/2022			<0.000203			
8/9/2022	<0.000203					
9/19/2022				<0.000203		
9/20/2022						<0.000203
9/26/2022					<0.000203	
3/22/2023	<0.000203					
3/27/2023			<0.000203			
5/2/2023				<0.000203		
5/3/2023					<0.000203	<0.000203
9/11/2023	<0.000203					
9/18/2023			<0.000203			
10/9/2023					<0.000203	
10/11/2023				<0.000203		<0.000203

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					<0.000203	<0.000203
7/20/2016	<0.000203					
9/26/2016					<0.000203	<0.000203
9/27/2016	<0.000203					
10/31/2016					<0.000203	<0.000203
11/1/2016	<0.000203					
1/9/2017					<0.000203	0.000242 (J)
1/11/2017	<0.000203					
2/14/2017					<0.000203	<0.000203
2/15/2017	<0.000203					
4/3/2017						0.000226 (J)
4/4/2017	<0.000203				<0.000203	
5/15/2017	<0.000203					
5/16/2017					<0.000203	<0.000203
6/12/2017					<0.000203	<0.000203
6/14/2017	<0.000203					
1/30/2018	<0.000203					
1/31/2018					<0.000203	
2/1/2018						<0.000203
5/7/2018					<0.000203	0.0003 (J)
5/8/2018	<0.000203					
10/8/2018	<0.000203					
10/9/2018					<0.000203	<0.000203
4/24/2019					<0.000203	<0.000203
8/28/2019	<0.000203				<0.000203	<0.000203
3/3/2020						<0.000203
3/4/2020					<0.000203	
3/10/2020	<0.000203					
10/13/2020					<0.000203	<0.000203
10/19/2020	<0.000203					
10/20/2020		<0.000203	<0.001	<0.000203		
4/21/2021		<0.000203	7.01E-05 (J)	<0.000203		7.18E-05 (J)
4/26/2021					<0.000203	
5/5/2021	<0.000203					
9/1/2021					<0.000203	<0.000203
9/7/2021	<0.000203	<0.000203	8E-05 (J)			
9/13/2021				<0.000203		
3/8/2022						7E-05 (J)
3/9/2022		<0.000203	0.00013 (J)	<0.000203	<0.000203	
3/17/2022	<0.000203					
9/19/2022		<0.000203	0.000159 (J)			
9/20/2022					<0.000203	<0.000203
9/26/2022	<0.000203				<0.000203	
4/18/2023		<0.000203	0.000165 (J)			
4/19/2023					<0.000203	<0.000203
5/2/2023				<0.000203		
5/3/2023	<0.000203					
9/26/2023		<0.000203	0.000169 (J)		<0.000203	
10/2/2023	<0.000203					
10/11/2023				<0.000203		<0.000203

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				<0.000203		
9/28/2016				0.000214 (J)		
11/1/2016				<0.000203		
1/11/2017				<0.000203		
2/14/2017				0.000219 (J)		
4/4/2017				0.000202 (J)		
5/16/2017				<0.000203		
6/14/2017				0.000266 (J)		
2/1/2018				<0.000203		
5/9/2018				<0.000203		
10/9/2018				<0.000203		
3/6/2019	<0.000203	<0.000203			<0.000203	<0.000203
5/1/2019				<0.000203		
8/27/2019	<0.000203	<0.000203		<0.000203		
9/3/2019					<0.000203	<0.000203
3/3/2020				<0.000203		
3/9/2020			<0.000203			
3/10/2020	<0.000203	<0.000203			<0.000203	<0.000203
10/13/2020	<0.000203	<0.000203				
10/14/2020			<0.000203			
10/19/2020					<0.000203	<0.000203
10/21/2020				<0.000203		
4/20/2021			<0.000203			
4/26/2021				<0.000203		
4/28/2021					<0.000203	
5/3/2021						<0.000203
5/5/2021	<0.000203	<0.000203				
9/7/2021	<0.000203					
9/8/2021					<0.000203	<0.000203
9/13/2021			<0.000203			
9/14/2021		<0.000203		<0.000203		
3/8/2022	<0.000203	<0.000203				
3/9/2022			<0.000203		<0.000203	<0.000203
3/16/2022				<0.000203		
9/14/2022	<0.000203		<0.000203			
9/21/2022		<0.000203			<0.000203	<0.000203
9/26/2022				<0.000203		
4/19/2023	<0.000203				<0.000203	<0.000203
5/1/2023			<0.000203			
5/2/2023		<0.000203		<0.000203		
10/3/2023		<0.000203				<0.000203
10/4/2023					<0.000203	
10/10/2023	<0.000203		<0.000203	<0.000203		

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	<0.000203					
8/28/2019	<0.000203					
3/9/2020	<0.000203				<0.000203	
10/13/2020	<0.000203					
10/14/2020				<0.000203	<0.000203	<0.000203
10/20/2020			<0.000203			
10/26/2020	<0.000203					
4/20/2021			<0.000203	<0.000203		
4/27/2021	<0.000203					<0.000203
4/28/2021	<0.000203					
5/5/2021					<0.000203	
6/16/2021	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
9/14/2021	<0.000203	<0.000203				
9/15/2021			<0.000203	<0.000203	<0.000203	<0.000203
3/15/2022					<0.000203	
3/16/2022			<0.000203	<0.000203		<0.000203
3/17/2022	<0.000203	<0.000203				
9/14/2022					<0.000203	<0.000203
9/21/2022		<0.000203	<0.000203	<0.000203		
9/26/2022	<0.000203					
5/1/2023					<0.000203	<0.000203
5/2/2023	<0.000203					
5/3/2023		<0.000203	<0.000203	<0.000203		
10/4/2023			<0.000203	<0.000203	<0.000203	<0.000203
10/11/2023	<0.000203					
10/12/2023		<0.000203				

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						<0.000203
3/9/2020		<0.000203				
3/10/2020			<0.000203		<0.000203	
10/14/2020						<0.000203
10/15/2020					<0.000203	
10/19/2020		<0.000203				
10/20/2020			<0.000203			
10/26/2020	<0.000203					
10/27/2020				<0.000203		
4/20/2021		<0.000203				
4/21/2021			<0.000203			
4/27/2021				<0.000203		
4/28/2021					<0.000203	
5/3/2021	<0.000203					<0.000203
9/8/2021						<0.000203
9/13/2021		<0.000203	<0.000203	<0.000203		
9/14/2021	<0.000203				<0.000203	
3/9/2022					<0.000203	
3/14/2022	<0.000203	<0.000203				<0.000203
3/16/2022			<0.000203	<0.000203		
9/19/2022			<0.000203			
9/20/2022		<0.000203		<0.000203		<0.000203
9/21/2022	<0.000203				<0.000203	
4/19/2023		<0.000203			<0.000203	
4/24/2023				<0.000203		
4/25/2023	<0.000203					<0.000203
4/26/2023			<0.000203			
9/27/2023	<0.000203	<0.000203				
10/4/2023					<0.000203	<0.000203
10/9/2023				<0.000203		
10/11/2023			<0.000203			

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					<0.000203	<0.000203
9/26/2016					<0.000203	<0.000203
10/31/2016					<0.000203	<0.000203
1/9/2017					<0.000203	<0.000203
2/13/2017					<0.000203	<0.000203
4/3/2017					<0.000203	<0.000203
5/16/2017					<0.000203	<0.000203
6/12/2017					<0.000203	<0.000203
1/29/2018					<0.000203	<0.000203
5/10/2018					<0.000203	<0.000203
10/9/2018					<0.000203	<0.000203
4/22/2019						<0.000203
4/29/2019					<0.000203	
8/27/2019					<0.000203	<0.000203
3/3/2020					<0.000203	<0.000203
3/9/2020	<0.000203			<0.000203		
3/10/2020		<0.000203				
10/13/2020		<0.000203			<0.000203	<0.000203
10/19/2020				<0.000203		
10/21/2020	<0.000203					
10/27/2020			<0.000203			
4/21/2021	<0.000203		<0.000203			
5/3/2021				<0.000203		
5/5/2021		<0.000203			<0.000203	<0.000203
9/7/2021		<0.000203			<0.000203	<0.000203
9/13/2021	<0.000203		<0.000203			
9/15/2021				<0.000203		
3/8/2022		<0.000203				
3/9/2022	<0.000203					
3/16/2022			<0.000203		<0.000203	<0.000203
3/17/2022				<0.000203		
9/14/2022			<0.000203			
9/19/2022	<0.000203	<0.000203			<0.000203	<0.000203
9/27/2022				<0.000203		
4/18/2023		<0.000203		<0.000203		
4/25/2023			<0.000203			
5/2/2023	<0.000203				<0.000203	<0.000203
10/3/2023					<0.000203	<0.000203
10/9/2023				<0.000203		
10/10/2023	<0.000203	<0.000203				
10/12/2023			<0.000203			

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	<0.000203					
7/26/2016			<0.000203	<0.000203		
9/27/2016	<0.000203					
9/28/2016			<0.000203	<0.000203		
11/1/2016	<0.000203			<0.000203		
11/2/2016			<0.000203			
1/9/2017	<0.000203			<0.000203		
1/10/2017			<0.000203			
2/13/2017	<0.000203			<0.000203		
2/14/2017			<0.000203			
4/3/2017			<0.000203	<0.000203		
4/4/2017	<0.000203					
5/16/2017	<0.000203			<0.000203		
5/17/2017			<0.000203			
6/12/2017	<0.000203		<0.000203	<0.000203		
1/29/2018	<0.000203					
2/1/2018			<0.000203	<0.000203		
5/9/2018	<0.000203		<0.000203	<0.000203		
10/8/2018	<0.000203		<0.000203	<0.000203		
3/5/2019		<0.0002			<0.000203	
4/23/2019			<0.000203	<0.000203		
4/29/2019	<0.000203					
8/27/2019	<0.000203	<0.0002				
8/28/2019			<0.000203	<0.000203	<0.000203	
3/2/2020			<0.000203			
3/3/2020				<0.000203	<0.000203	
3/4/2020	<0.000203	<0.0002				
10/14/2020	<0.000203	<0.0002				
10/19/2020					<0.000203	
10/20/2020				<0.000203		<0.000203
10/21/2020			<0.000203			
4/26/2021	<0.000203	<0.0002				
4/27/2021						<0.000203
4/28/2021				<0.000203	<0.000203	
5/3/2021			<0.000203			
9/1/2021	<0.000203	<0.0002		<0.000203		<0.000203
9/8/2021			<0.000203		<0.000203	
3/8/2022						<0.000203
3/14/2022			<0.000203			
3/15/2022	7E-05 (J)	<0.0002				
3/16/2022				<0.000203	<0.000203	
9/20/2022			<0.000203			<0.000203
9/21/2022				<0.000203		
9/26/2022	<0.000203	<0.0002			<0.000203	
4/24/2023					<0.000203	<0.000203
4/25/2023			<0.000203	<0.000203		
5/2/2023	<0.000203	<0.0002				
10/3/2023				<0.000203	<0.000203	<0.000203
10/4/2023			<0.000203			
10/10/2023	<0.000203					

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				<0.000203
9/28/2016				<0.000203
11/2/2016				<0.000203
1/12/2017				<0.000203
2/13/2017				<0.000203
4/3/2017				<0.000203
5/17/2017				<0.000203
6/12/2017				<0.000203
2/1/2018				<0.000203
5/9/2018				<0.000203
10/8/2018				<0.000203
4/23/2019				<0.000203
8/29/2019				<0.000203
3/2/2020				<0.000203
10/15/2020		<0.000203	<0.000203	
10/20/2020	<0.000203			
10/21/2020				<0.000203
4/27/2021	<0.000203	<0.000203	<0.000203	
5/3/2021				<0.000203
9/1/2021	<0.000203	<0.000203	<0.000203	
9/8/2021				<0.000203
3/8/2022	<0.000203	<0.000203	<0.000203	
3/14/2022				<0.000203
9/20/2022	<0.000203			<0.000203
9/21/2022		<0.000203	<0.000203	
4/24/2023	<0.000203			
4/25/2023				<0.000203
5/3/2023		<0.000203	<0.000203	
9/27/2023		<0.000203	<0.000203	
10/3/2023	<0.000203			
10/4/2023				<0.000203

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/25/2016				1060	1440	456
8/2/2016	221					
8/3/2016			113			
9/20/2016	221					
9/21/2016			128			
9/26/2016				852		
9/27/2016					1310	1170
10/25/2016	226		121			
10/31/2016					1360	
11/1/2016						1160
11/2/2016				888		
12/13/2016	211		101			
1/11/2017				920	1310	
1/12/2017						1180
2/6/2017			108			
2/8/2017	212					
2/13/2017				848		1130
2/14/2017					1270	
3/28/2017			91			
3/29/2017	217					
4/3/2017				1000		
4/4/2017						1140
4/6/2017					1320	
4/24/2017			89.3			
4/26/2017	202					
5/15/2017				870		
5/16/2017						1080
5/17/2017					1280	
6/7/2017	218		84			
6/13/2017					1310	
6/14/2017				910		1220
8/21/2017			91.3			
8/22/2017	224					
9/19/2017				824		1140
9/21/2017					1350	
5/8/2018						1070
5/9/2018				1020		
5/10/2018					1310	
5/15/2018	209		94.7			
10/8/2018					1430 (D)	
10/9/2018				830 (D)		1010 (D)
10/16/2018			76.7			
10/17/2018	208					
2/20/2019		346				
4/16/2019	185		92			
4/24/2019					1460	
5/1/2019				694		996
8/27/2019				1120		
8/28/2019						1050
8/29/2019					1550	
9/24/2019		365	109			
3/3/2020						1070

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	GS-AP-MW-13 (bg)	GS-AP-MW-17V ...	GS-AP-MW-8 (bg)	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
3/9/2020				815	1720	
3/18/2020			90.7			
3/25/2020	364					
9/21/2020			94			
9/23/2020	368					
10/19/2020				530	1430	
10/20/2020						1050
2/2/2021	356		98.7			
4/20/2021				630		
4/21/2021						1060
5/3/2021					1510	
8/2/2021	333					
8/10/2021			101			
9/8/2021				858		
9/14/2021						1000
9/15/2021					1490	
2/14/2022	365					
2/16/2022			90.7			
3/15/2022				897		
3/16/2022						1120
3/17/2022					1230	
8/2/2022			97.300003			
8/9/2022	344					
9/19/2022				1060		
9/20/2022						1140
9/26/2022					2550	
3/22/2023	344					
3/27/2023			100			
5/2/2023				920		
5/3/2023					2110	1240
9/11/2023	338					
9/18/2023			91.300003			
10/9/2023					2410	
10/11/2023				1020		1040
11/1/2023				1.654 (D)		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16
7/19/2016					255	1080
7/20/2016	1620					
9/26/2016					259	1140
9/27/2016	1560					
10/31/2016					265	1010
11/1/2016	1580					
1/9/2017					276	1250
1/11/2017	1570					
2/14/2017					246	1180
2/15/2017	1470					
4/3/2017						846
4/4/2017	1840				257	
5/15/2017	1660					
5/16/2017					283	880
6/12/2017					266	872
6/14/2017	1960					
9/19/2017					266	848
9/21/2017	2030					
5/7/2018					264	742
5/8/2018	2400					
10/8/2018	2630 (D)					
10/9/2018					239 (D)	982 (D)
4/24/2019					234	646
8/28/2019	2850				397	642
3/3/2020						378
3/4/2020					269	
3/10/2020	2420					
10/13/2020					280	738
10/19/2020	2540					
10/20/2020		314	604	219		
4/21/2021		518	1040	232		688
4/26/2021					352	
5/5/2021	2530					
9/1/2021					359	702
9/7/2021	2940	494	1310			
9/13/2021				237		
3/8/2022						738
3/9/2022		574	1300	217	279	
3/17/2022	2580					
9/19/2022		542	1100			
9/20/2022					594	826
9/26/2022	1560			227		
4/18/2023		384	1030			
4/19/2023					428	472
5/2/2023				242		
5/3/2023	1050					
9/26/2023		724	997		702	
10/2/2023	1130					
10/11/2023				247		820
11/1/2023	0.9508 (D)					0.77 (D)

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-17H	MR-AP-MW-18H	MR-AP-MW-19HA	MR-AP-MW-2	MR-AP-MW-20H	MR-AP-MW-20HS
7/25/2016				2040		
9/28/2016				2420		
11/1/2016				2180		
1/11/2017				2320		
2/14/2017				2380		
4/4/2017				2360		
5/16/2017				2400		
6/14/2017				2520		
9/20/2017				2500		
5/9/2018				2040		
10/9/2018				2460 (D)		
3/6/2019	389	398			1260	894
5/1/2019				2370		
8/27/2019	436	937		2470		
9/3/2019					1320	929
3/3/2020				2520		
3/9/2020			900			
3/10/2020	370	328			1290	944
10/13/2020	433	823				
10/14/2020			1300			
10/19/2020					1130	862
10/21/2020				2190		
4/20/2021			1500			
4/26/2021				2560		
4/28/2021					1140	
5/3/2021						774
5/5/2021	514	646				
9/7/2021	417					
9/8/2021					1180	778
9/13/2021			1020			
9/14/2021		682		2400		
3/8/2022	376	360				
3/9/2022			1020		1120	688
3/16/2022				2420		
9/14/2022	497		1410			
9/21/2022		658			1130	586
9/26/2022				2350		
4/19/2023	311				1100	477
5/1/2023			1180			
5/2/2023		400		2400		
10/3/2023		610				497
10/4/2023					1230	
10/10/2023	548		858	2390		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21 (bg)	MR-AP-MW-22D ...	MR-AP-MW-22I ...	MR-AP-MW-22S ...	MR-AP-MW-23 (bg)	MR-AP-MW-23A ...
3/6/2019	397					
8/28/2019	446					
3/9/2020	496			4720		
10/13/2020	534					
10/14/2020			730	4840	4620	
10/20/2020		780				
10/26/2020	4010					
4/20/2021		474	590			
4/27/2021	3900				4610	
4/28/2021	499					
5/5/2021				4620		
6/16/2021	4030	455	612		4720	
9/14/2021	440	4200				
9/15/2021		423	662	4630	4800	
3/15/2022				4680		
3/16/2022		391	648		4520	
3/17/2022	460	4600				
9/14/2022				4870	4920	
9/21/2022	4470	449	710			
9/26/2022	459					
5/1/2023				4860	4960	
5/2/2023	552					
5/3/2023	1400	370	715			
10/4/2023		532	833	4700	4810	
10/11/2023	451					
10/12/2023	1940					

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-27HR	MR-AP-MW-28H	MR-AP-MW-30H	MR-AP-MW-31H	MR-AP-MW-32H	MR-AP-MW-33H
3/5/2020						1020
3/9/2020		375				
3/10/2020			1720		216	
10/14/2020						1170
10/15/2020					232	
10/19/2020		458				
10/20/2020			1840			
10/26/2020	321					
10/27/2020				886		
4/20/2021		370				
4/21/2021			1700			
4/27/2021				880		
4/28/2021					252	
5/3/2021	314					1160
9/8/2021						1220
9/13/2021		428	1440	842		
9/14/2021	315				239	
3/9/2022					234	
3/14/2022	314	377				1080
3/16/2022			1380	856		
9/19/2022			1410			
9/20/2022		331		915		1180
9/21/2022	323				246	
4/19/2023		322			187	
4/24/2023				830		
4/25/2023	439					1090
4/26/2023			1370			
9/27/2023	378	329				
10/4/2023					294	1070
10/9/2023				836		
10/11/2023			1340			
11/1/2023						0 (D)

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-34H	MR-AP-MW-35H	MR-AP-MW-36HR	MR-AP-MW-37H	MR-AP-MW-3D	MR-AP-MW-3S
7/19/2016					1530	704
9/26/2016					1480	594
10/31/2016					1430	572
1/9/2017					1500	608
2/13/2017					1380	584
4/3/2017					1370	606
5/16/2017					1300	608
6/12/2017					1300	644
9/20/2017					1180	592
5/10/2018					1060	606
10/9/2018					1220 (D)	536 (D)
4/22/2019						930
4/29/2019					956	
8/27/2019					960	837
3/3/2020					840	953
3/9/2020	1100			312		
3/10/2020		438				
10/13/2020		455			937	793
10/19/2020				295		
10/21/2020	1540					
10/27/2020			913			
4/21/2021	1690		1660			
5/3/2021				310		
5/5/2021		444			883	748
9/7/2021		451			924	706
9/13/2021	1270		1790			
9/15/2021				301		
3/8/2022		432				
3/9/2022	909					
3/16/2022			2080		698	698
3/17/2022				305		
9/14/2022			1860			
9/19/2022	976	442			756	644
9/27/2022				314		
4/18/2023		332		293		
4/25/2023			1760			
5/2/2023	920				630	638
10/3/2023					688	574
10/9/2023				299		
10/10/2023	940	453				
10/12/2023			2220			
11/1/2023					0.69 (D)	0.74 (D)

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4V	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-6V	MR-AP-MW-7DR
7/19/2016	1520					
7/26/2016			1630	868		
9/27/2016	1540					
9/28/2016			1600	884		
11/1/2016	1510			862		
11/2/2016			1640			
1/9/2017	1510			918		
1/10/2017			1660			
2/13/2017	1460			896		
2/14/2017			1600			
4/3/2017			1600	852		
4/4/2017	1270					
5/16/2017	1420			924		
5/17/2017			1630			
6/12/2017	1380		1770	928		
9/18/2017			1530	908		
9/20/2017	1270					
5/9/2018	1040		1430	908		
10/8/2018	1180 (D)		1300 (D)	882 (D)		
3/5/2019		852			840	
4/23/2019			1390	882		
4/29/2019	1180					
8/27/2019	1120	1190				
8/28/2019			1370	903	560	
3/2/2020			1270			
3/3/2020				926	622	
3/4/2020	904	736				
10/14/2020	934	963				
10/19/2020					594	
10/20/2020				876		818
10/21/2020			1190			
4/26/2021	930	916				
4/27/2021						798
4/28/2021				937	614	
5/3/2021			1220			
9/1/2021	1050	1050		957		838
9/8/2021			1220		708	
3/8/2022						798
3/14/2022			1190			
3/15/2022	800	1070				
3/16/2022				894	592	
9/20/2022			1140			824
9/21/2022				914		
9/26/2022	694	1150			576	
4/24/2023					656	806
4/25/2023			1200	896		
5/2/2023	724	630				
10/3/2023				814	428	894
10/4/2023			1200			
10/10/2023	796					
11/1/2023				0.64 (D)	0.9136 (D)	

Time Series

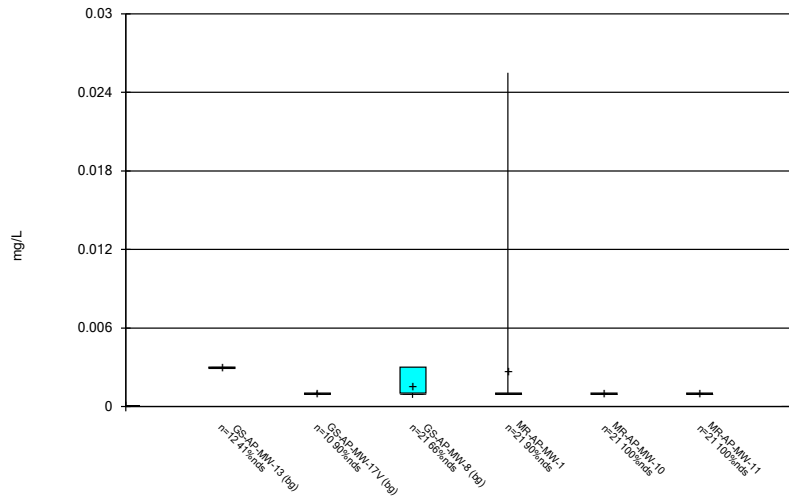
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/22/2023 11:32 AM

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR	MR-AP-PZ-5
7/26/2016				1040
9/28/2016				1000
11/2/2016				920
1/12/2017				812
2/13/2017				832
4/3/2017				710
5/17/2017				718
6/12/2017				724
9/18/2017				616
5/9/2018				486
10/8/2018				464 (D)
4/23/2019				478
8/29/2019				734
3/2/2020				594
10/15/2020		654	686	
10/20/2020	588			
10/21/2020				594
4/27/2021	624	646	634	
5/3/2021				762
9/1/2021	646	636	658	
9/8/2021				690
3/8/2022	598	594	614	
3/14/2022				748
9/20/2022	638			746
9/21/2022		1230	734	
4/24/2023	640			
4/25/2023				712
5/3/2023		1190	754	
9/27/2023		1120	730	
10/3/2023	784			
10/4/2023				890

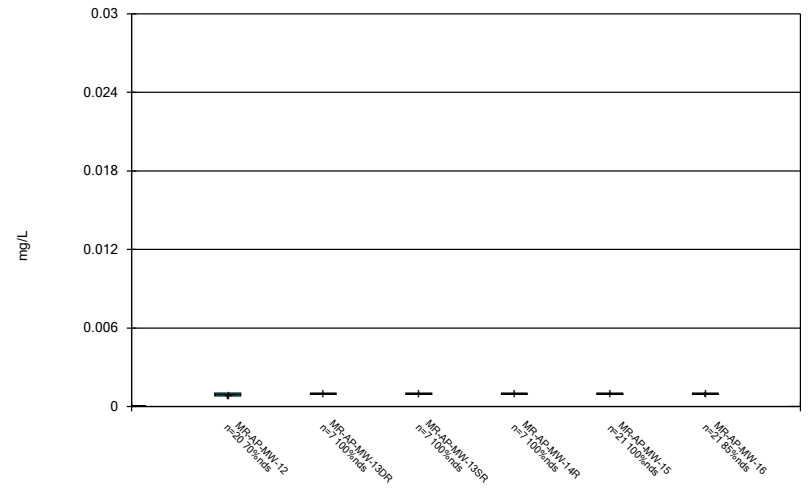
FIGURE B.

Box & Whiskers Plot



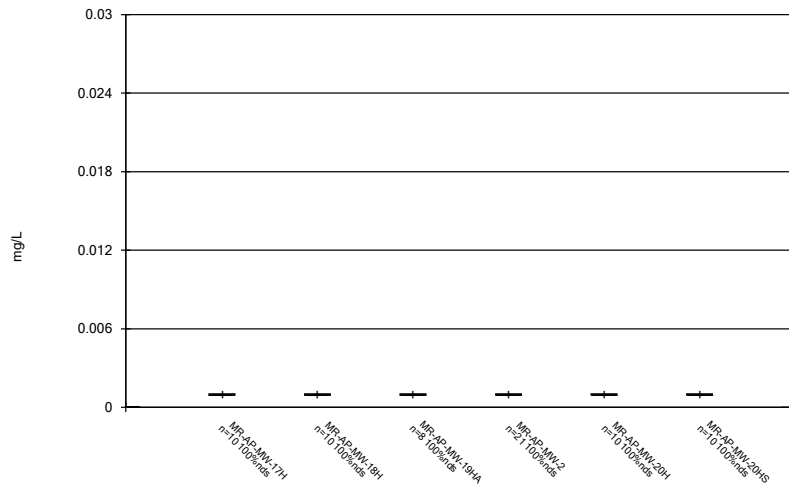
Constituent: Antimony Analysis Run 12/22/2023 11:33 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



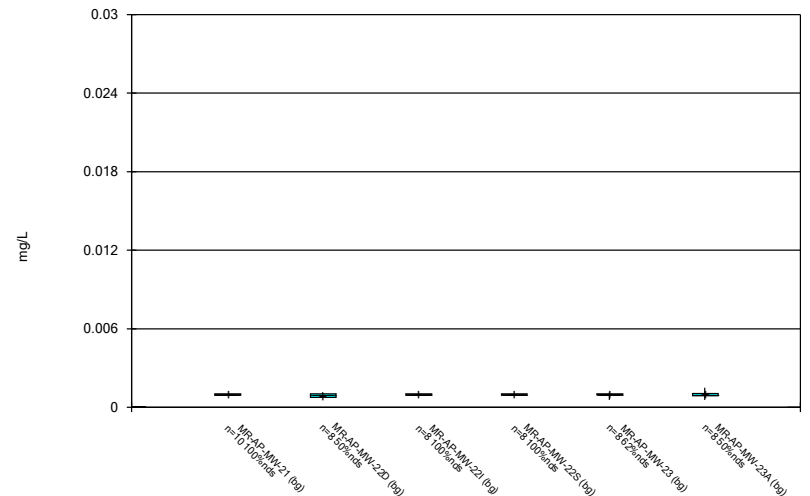
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



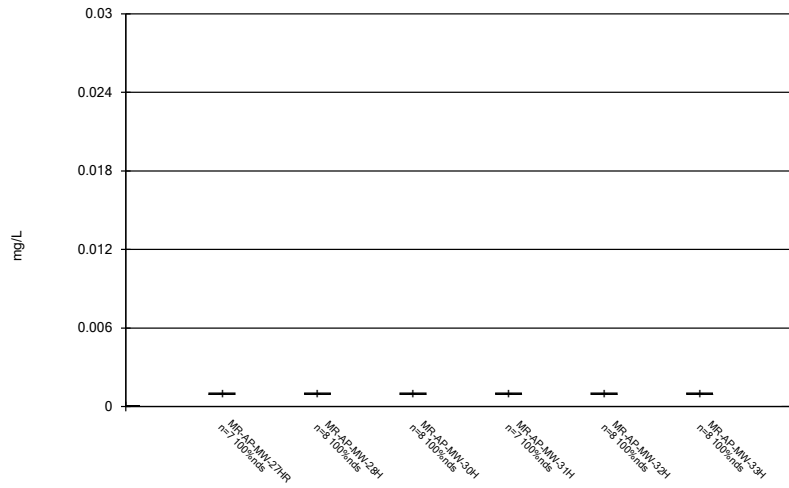
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



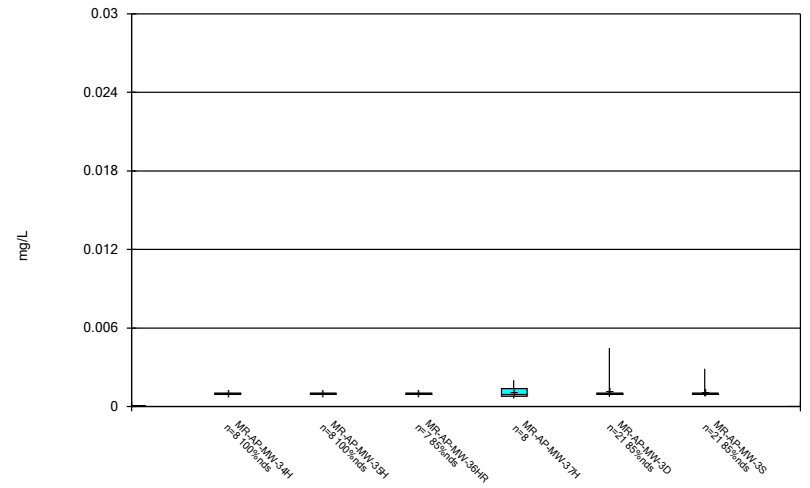
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



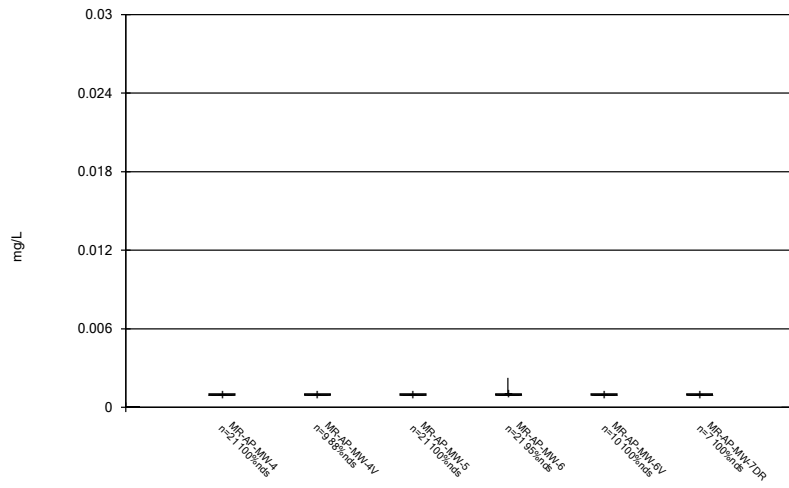
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



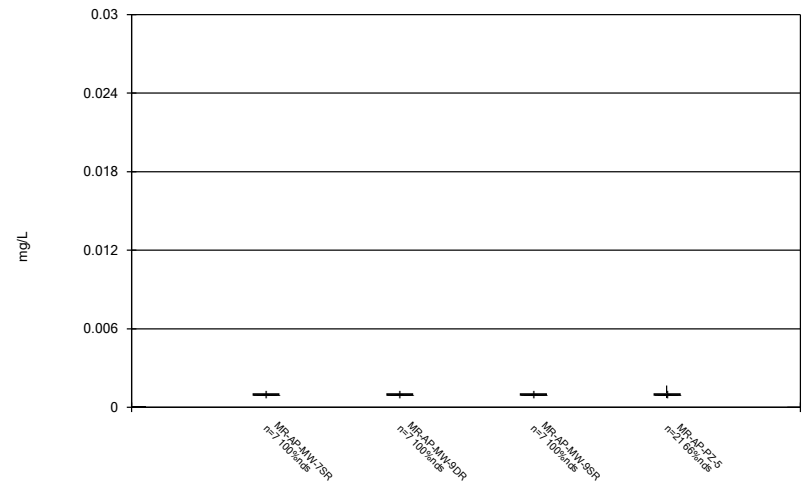
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



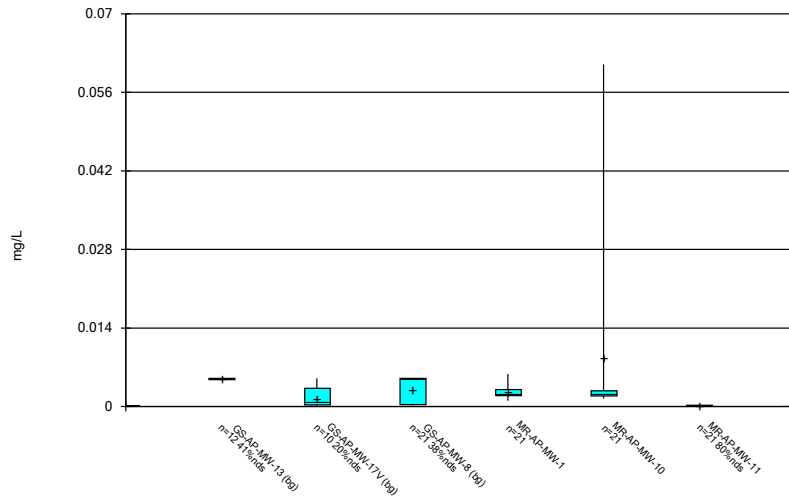
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



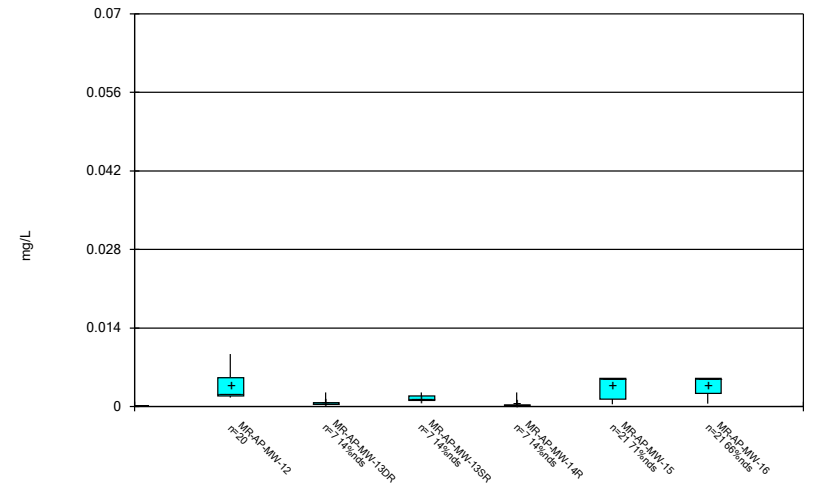
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



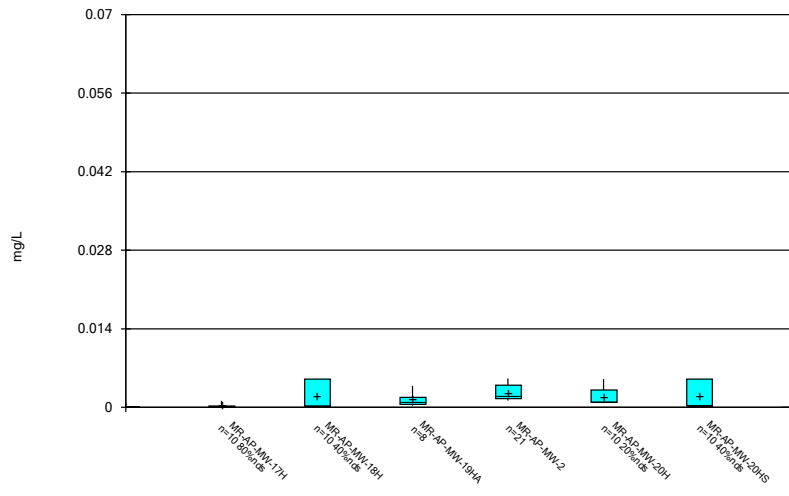
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



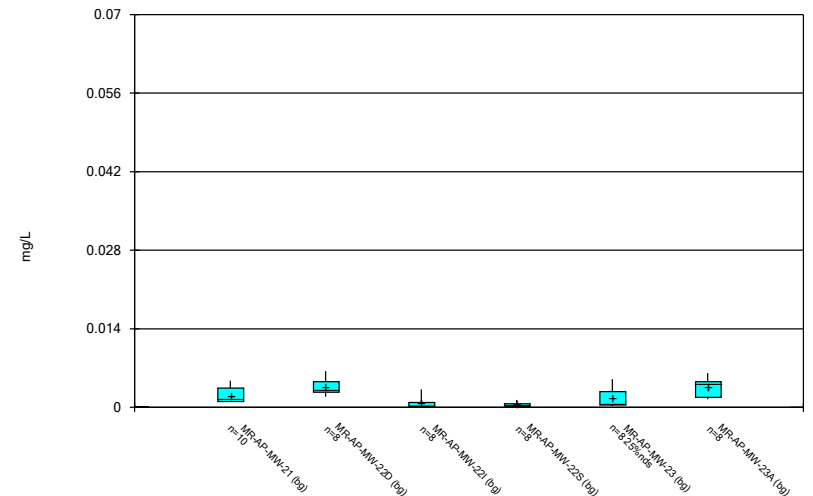
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



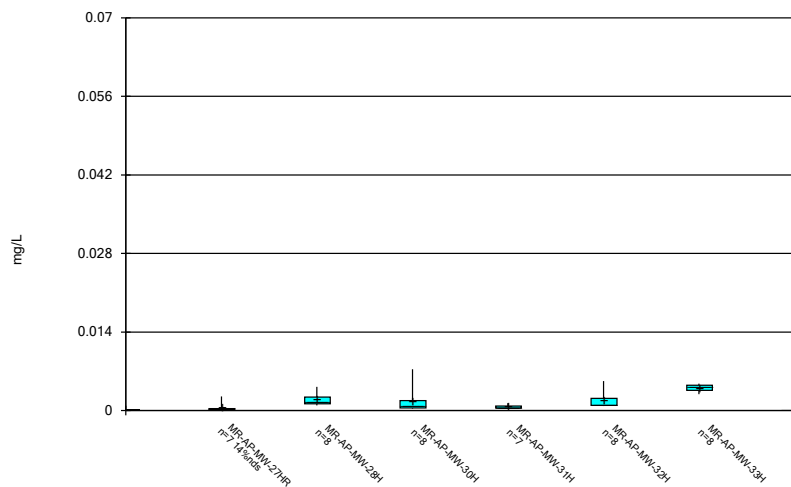
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Box & Whiskers Plot



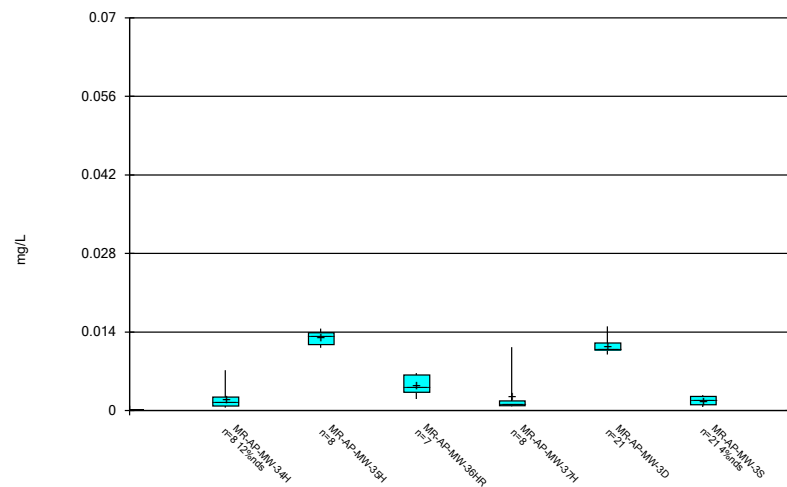
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



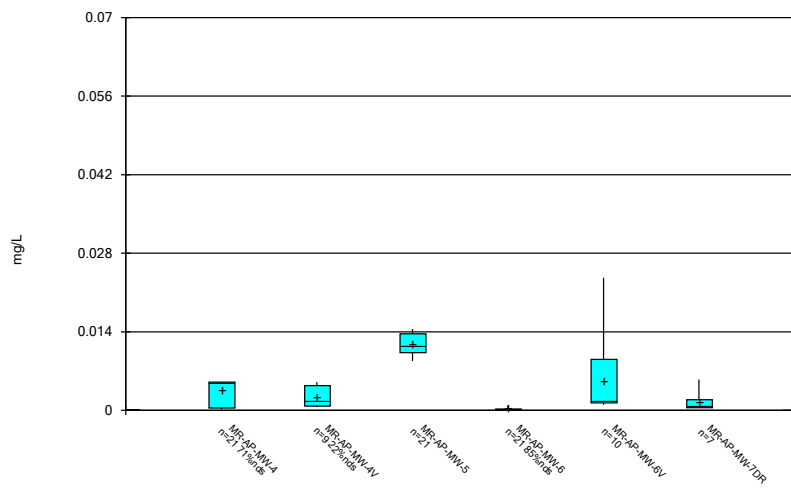
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



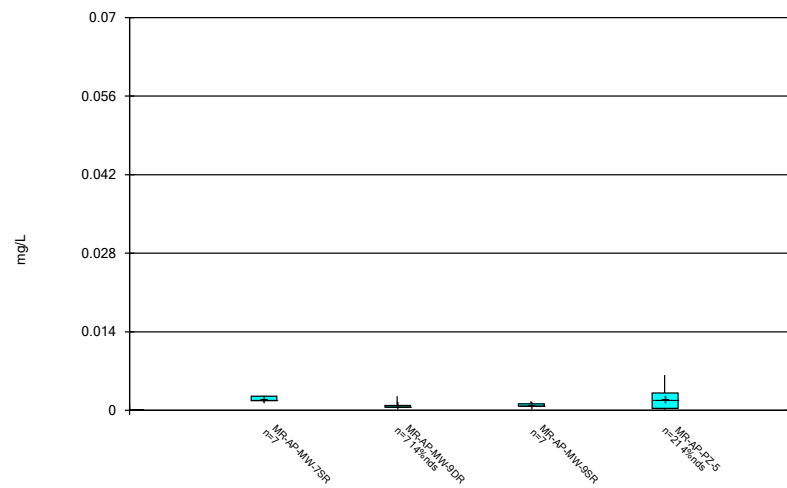
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



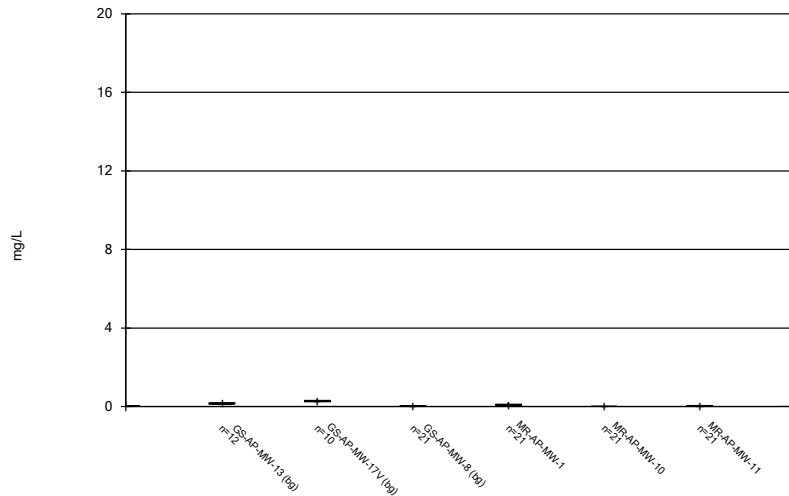
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



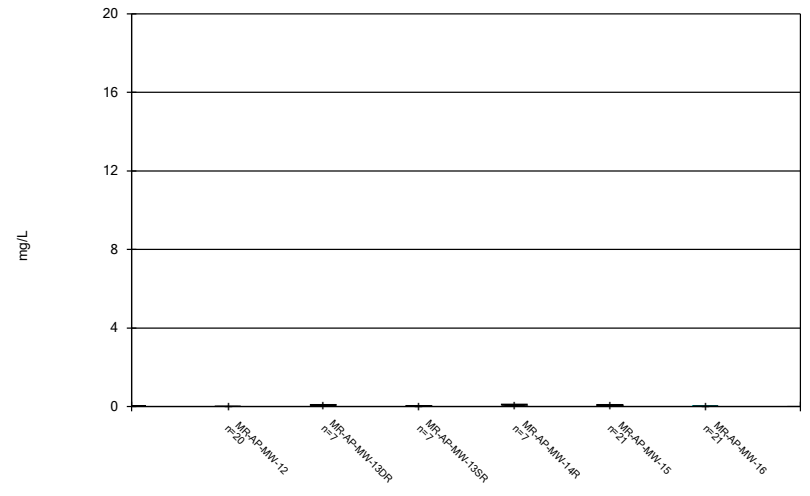
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



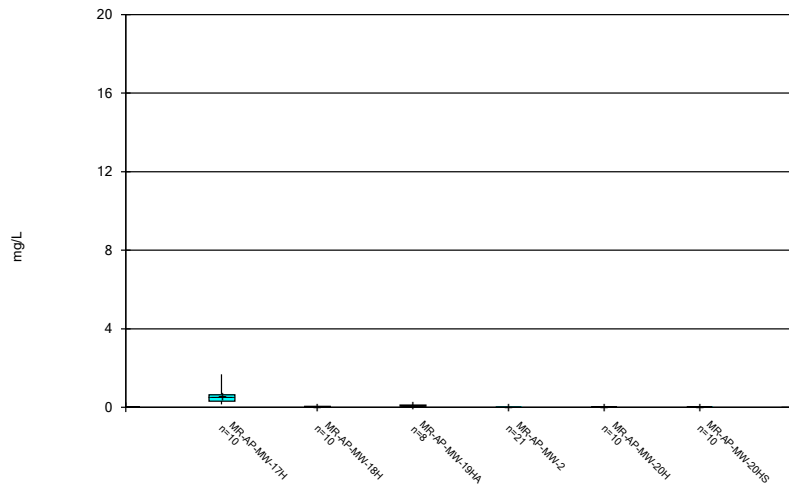
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



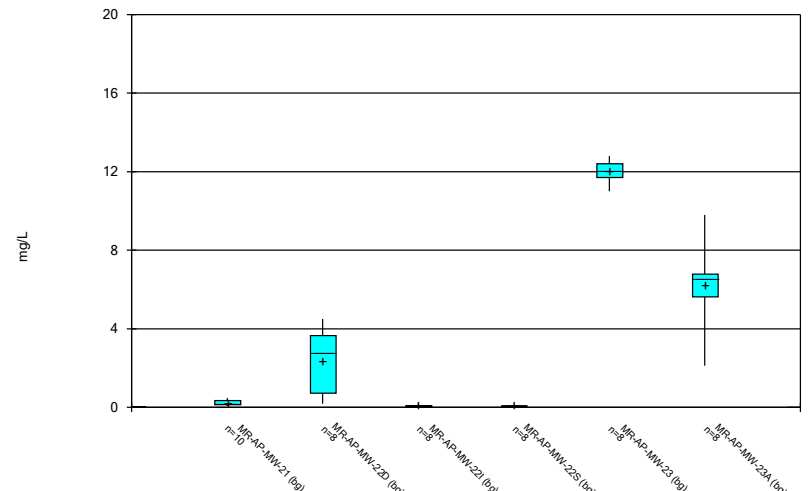
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Box & Whiskers Plot



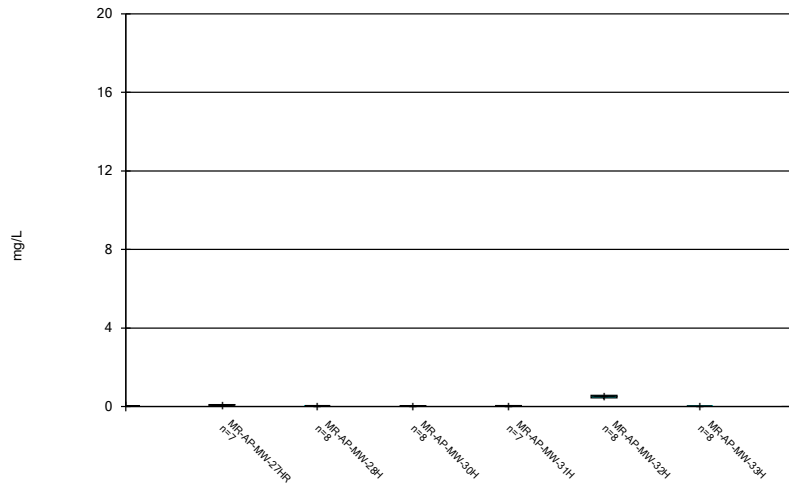
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Box & Whiskers Plot



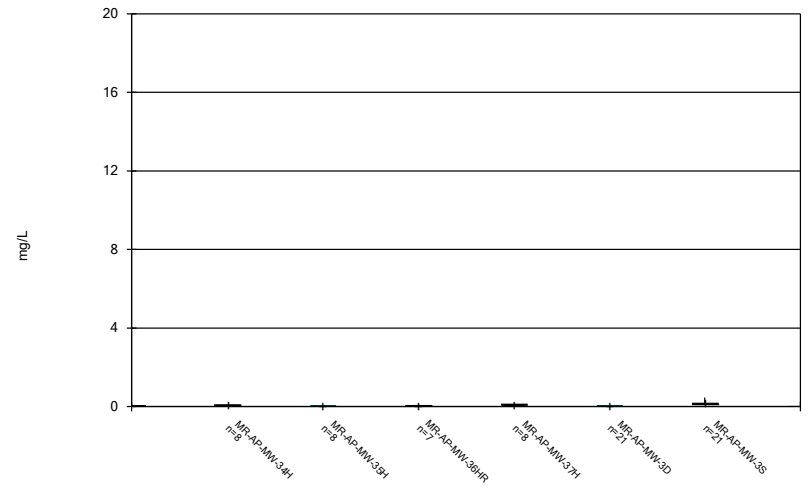
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Box & Whiskers Plot



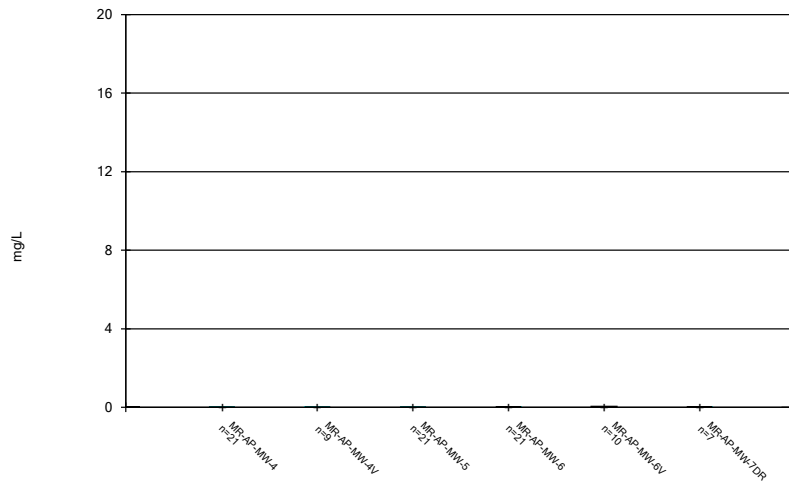
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



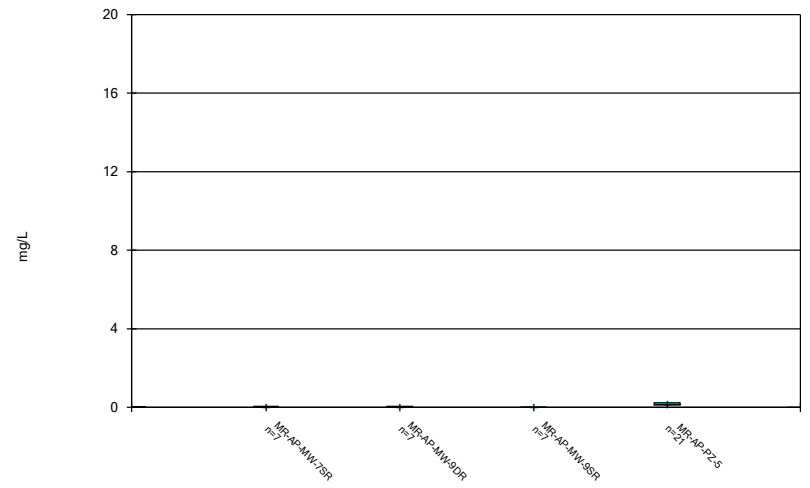
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



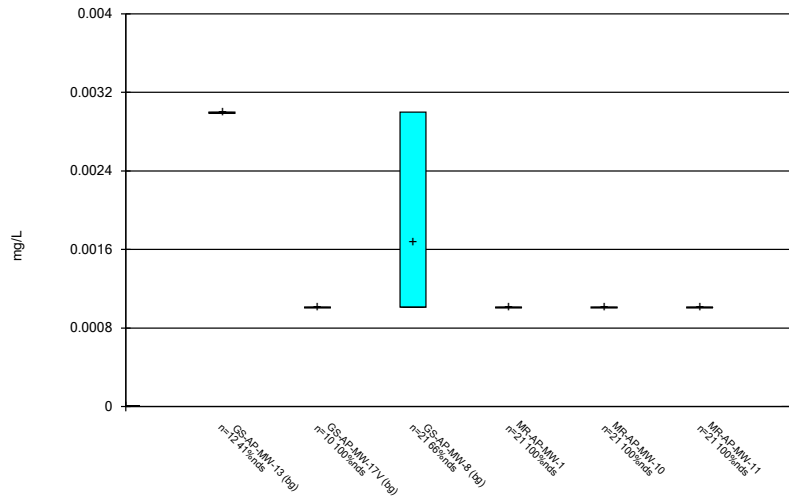
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Box & Whiskers Plot



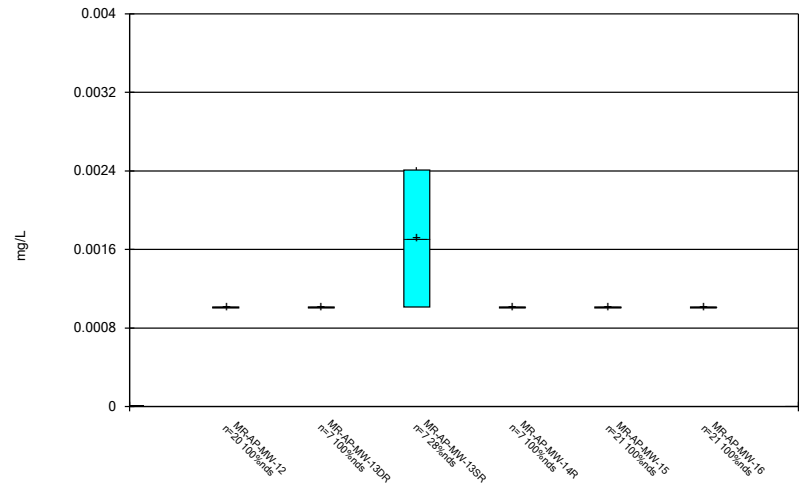
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



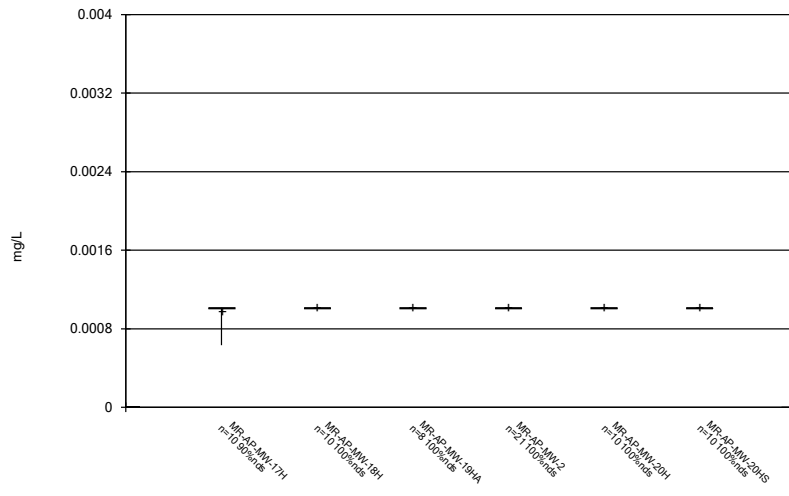
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



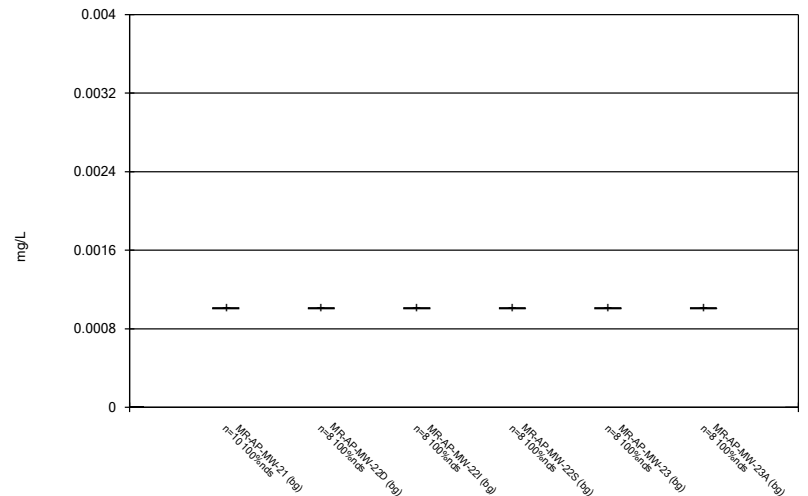
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



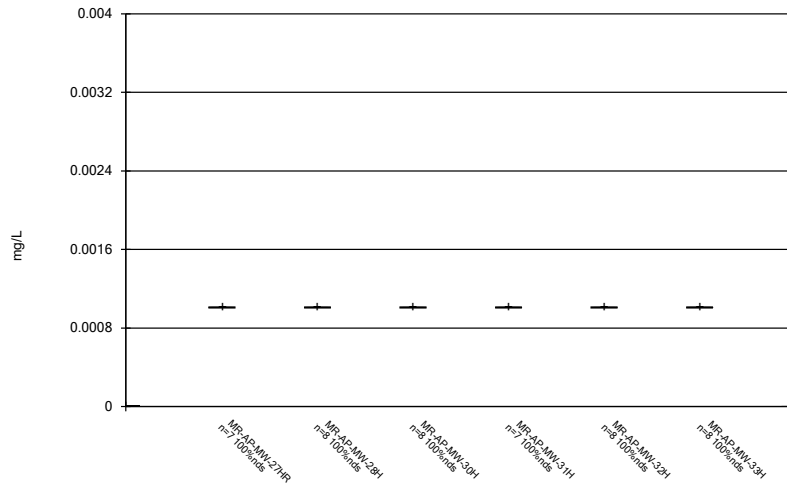
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Box & Whiskers Plot



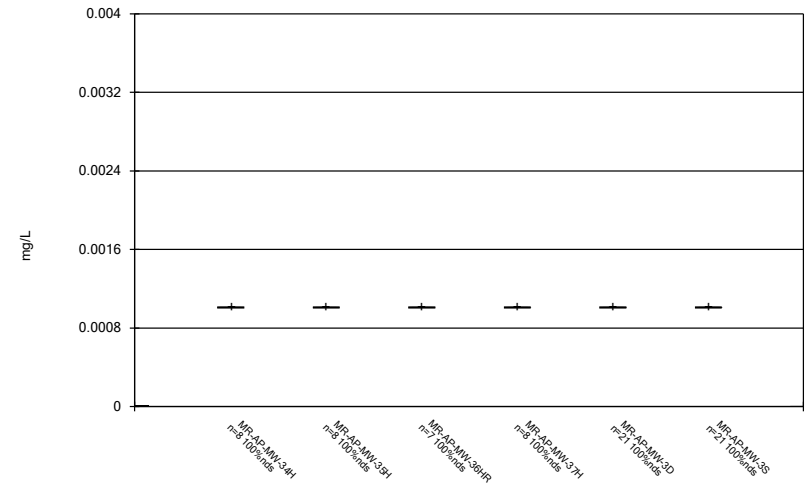
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Box & Whiskers Plot



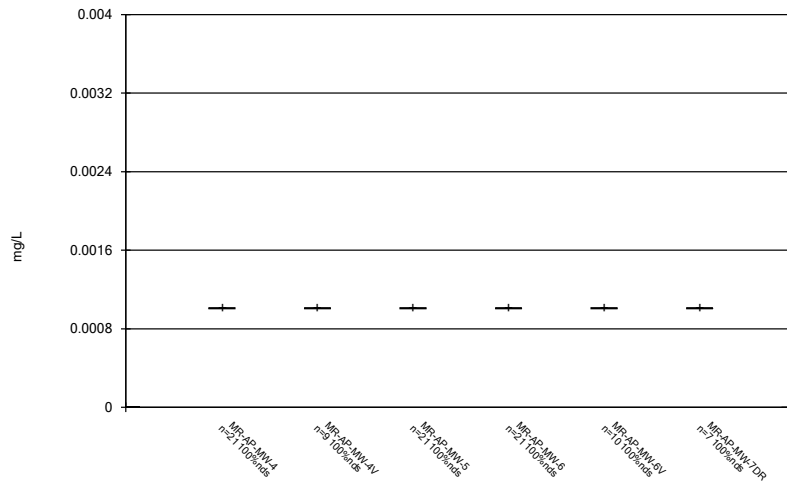
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



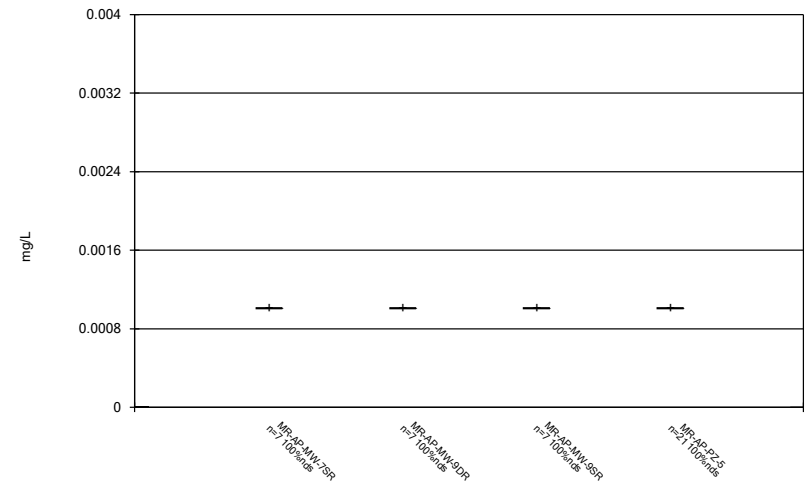
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



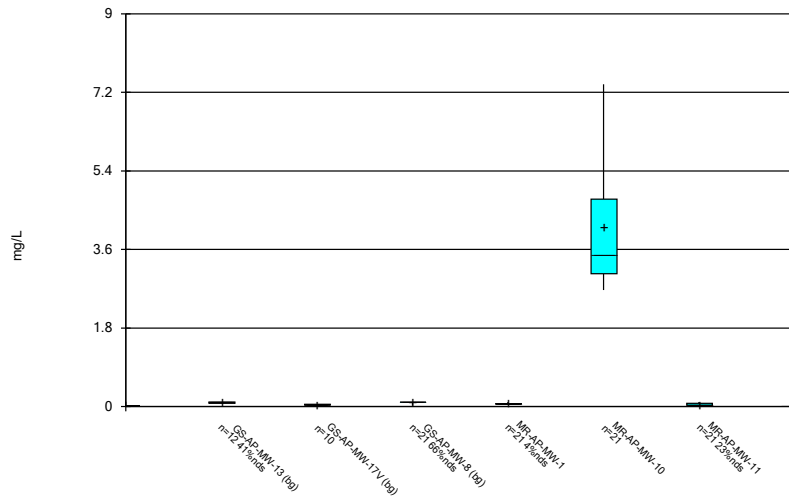
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



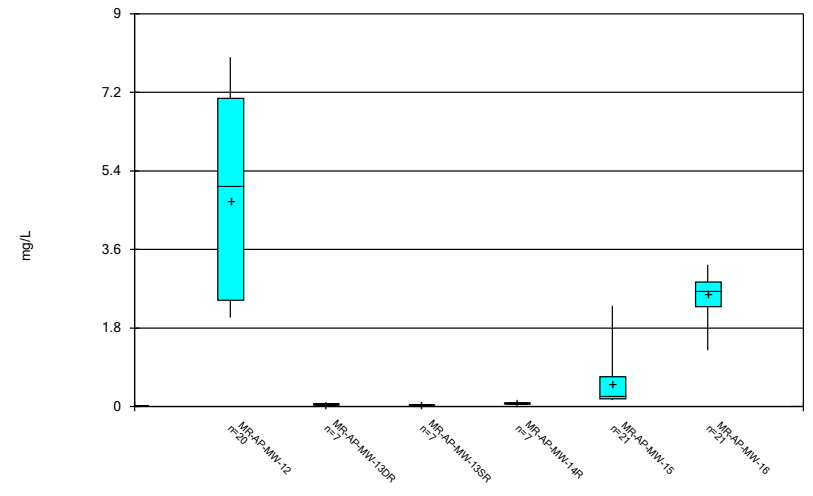
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



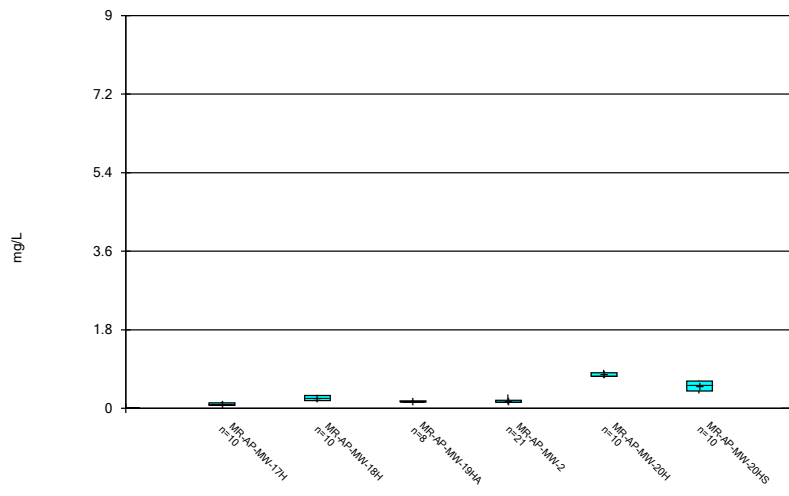
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 Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



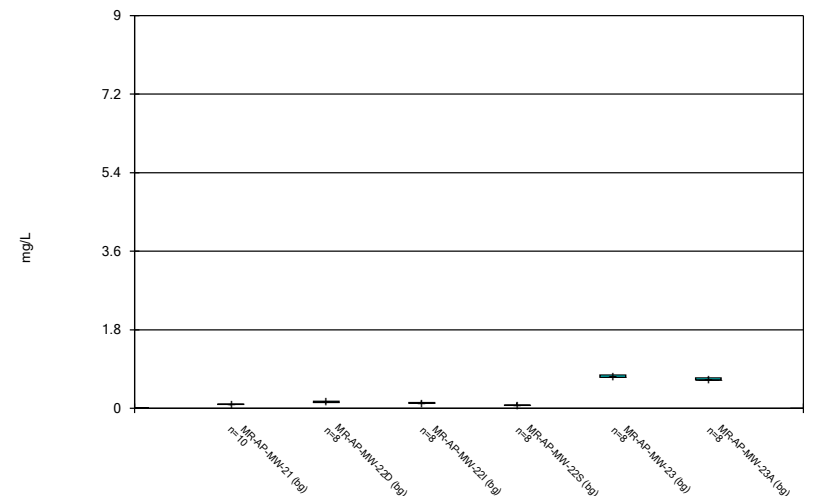
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 Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



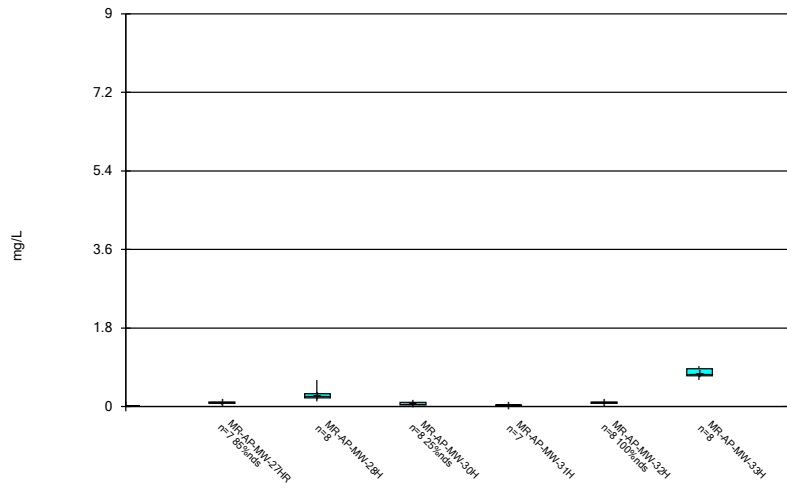
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Box & Whiskers Plot



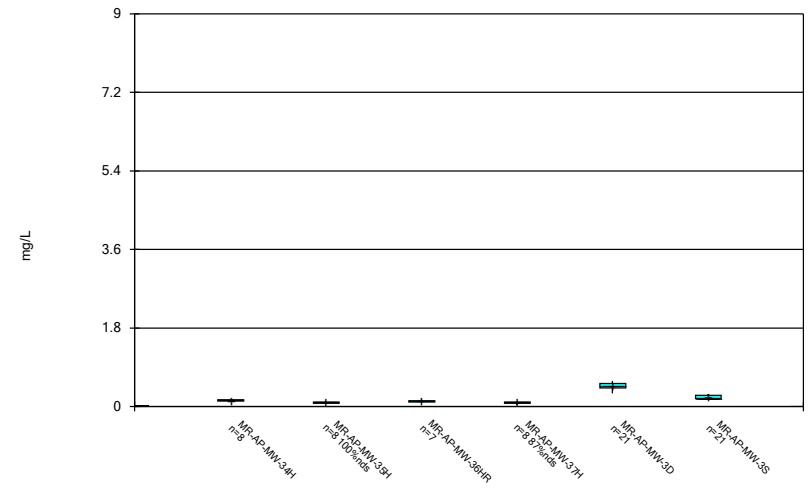
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 Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



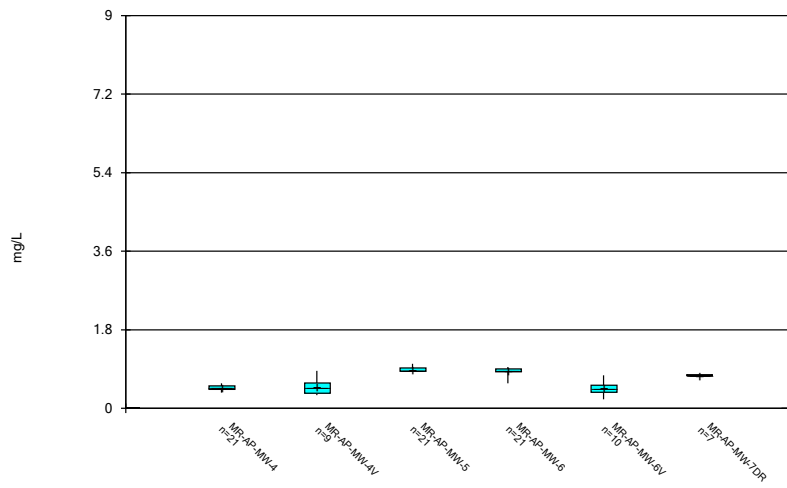
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Box & Whiskers Plot



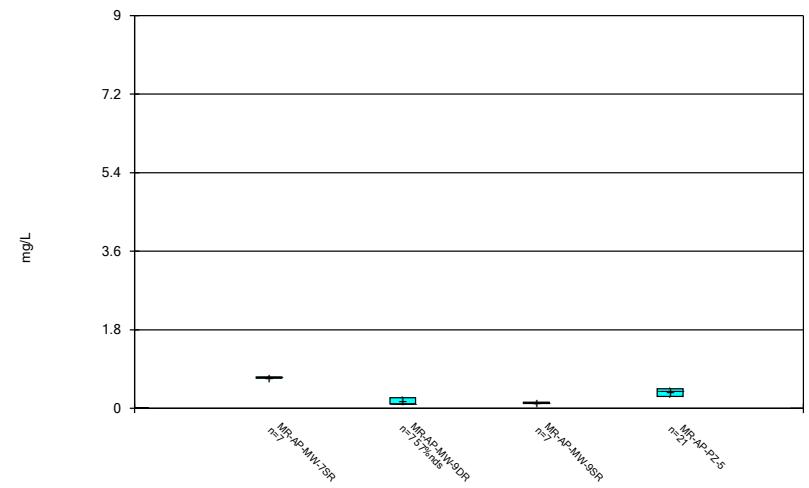
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 Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



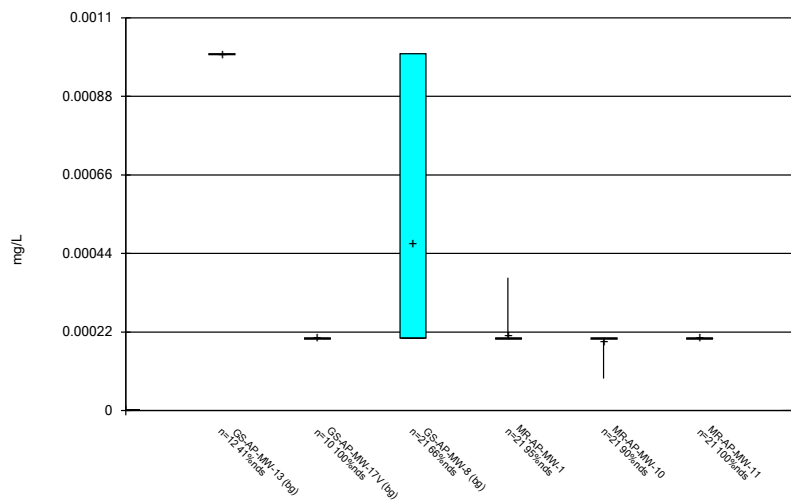
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 Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



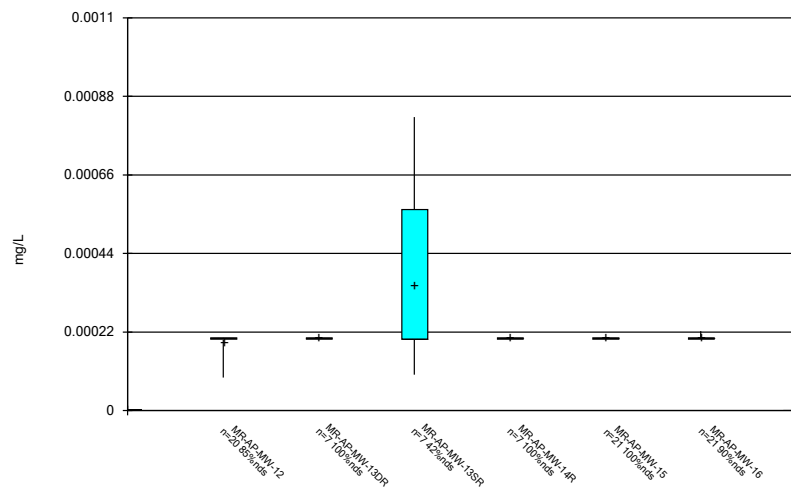
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 Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



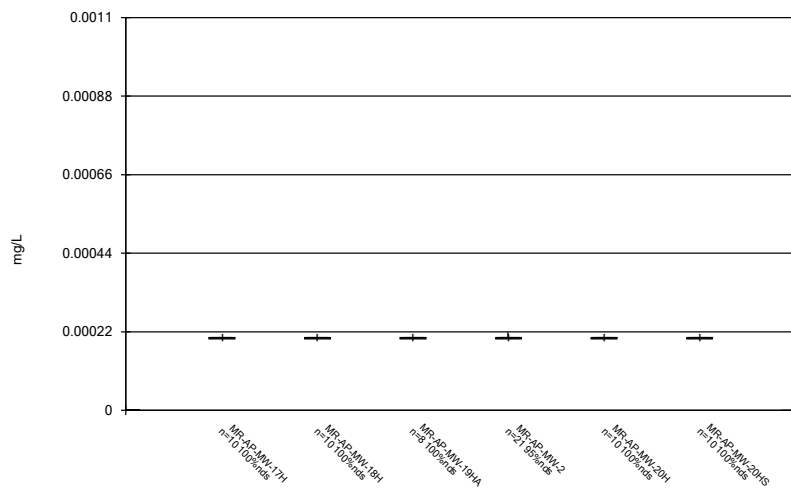
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



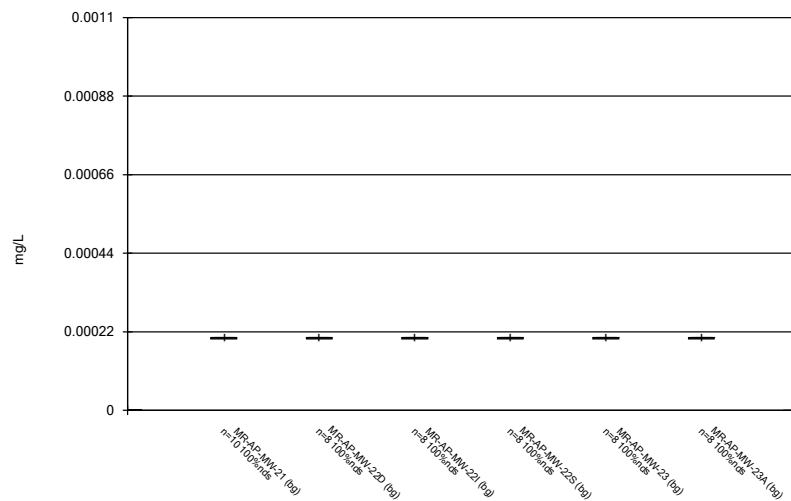
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



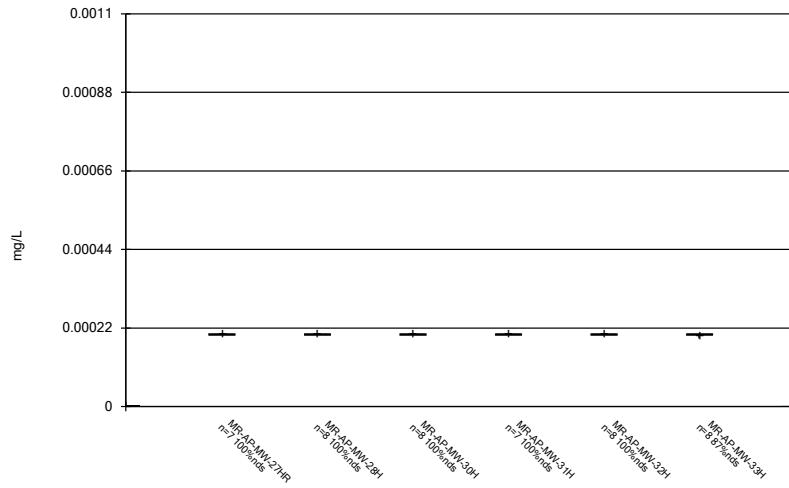
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



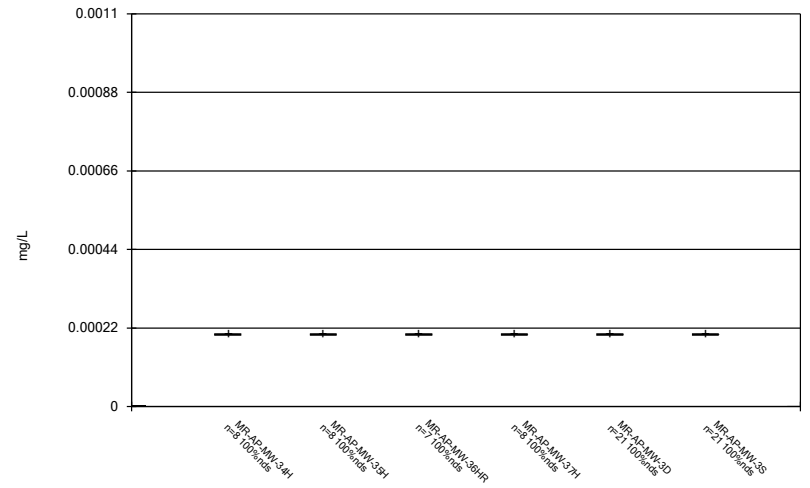
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



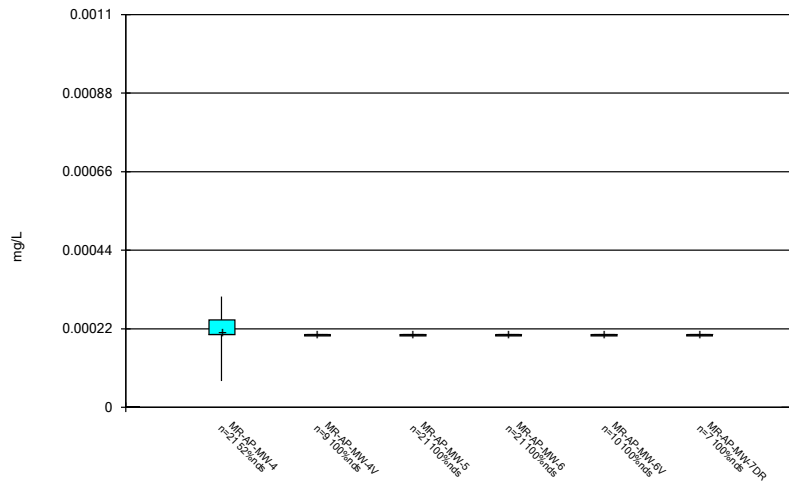
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



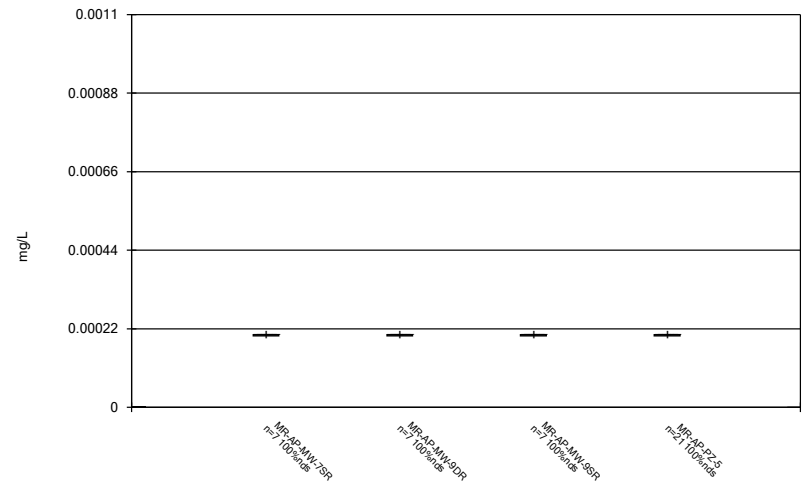
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



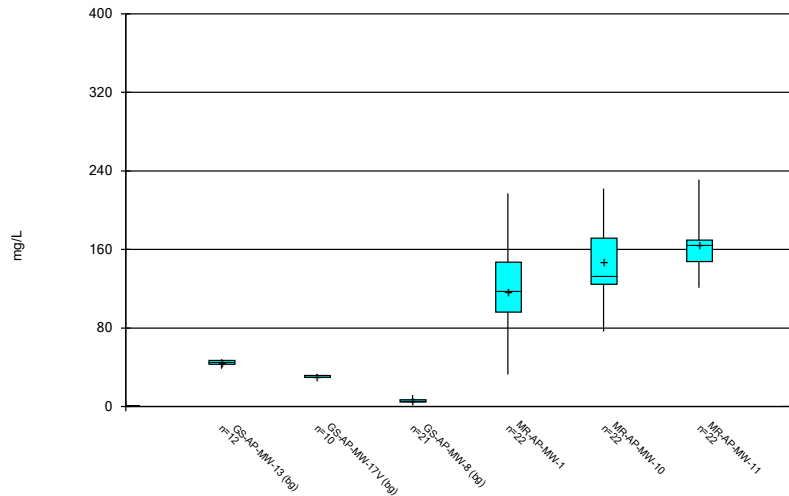
Constituent: Cadmium Analysis Run 12/22/2023 11:33 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



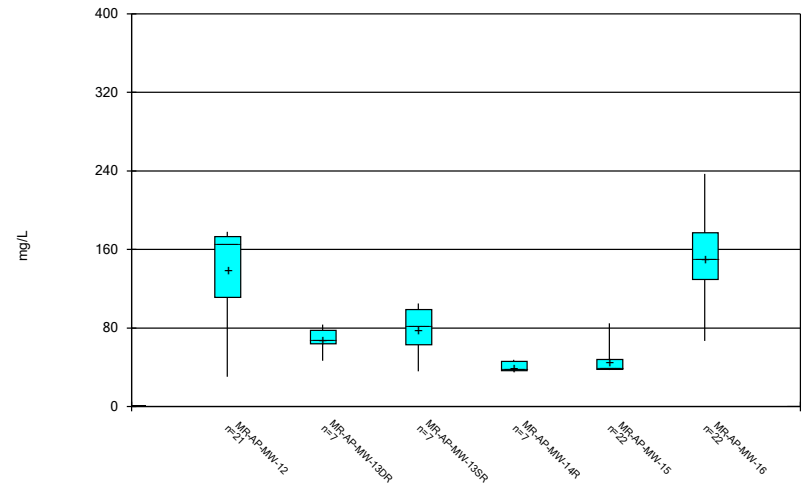
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



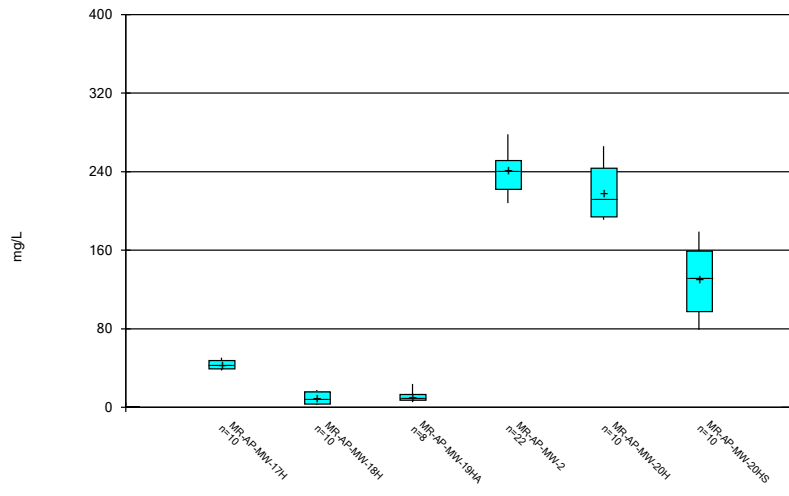
Constituent: Calcium, total Analysis Run 12/22/2023 11:33 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



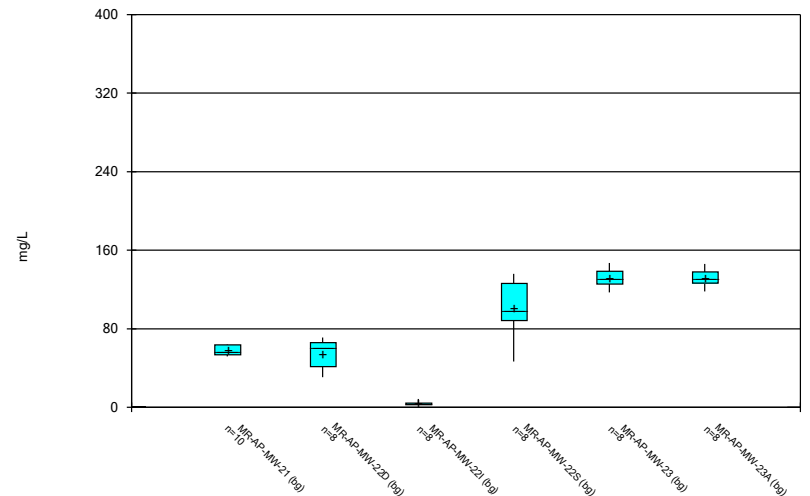
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



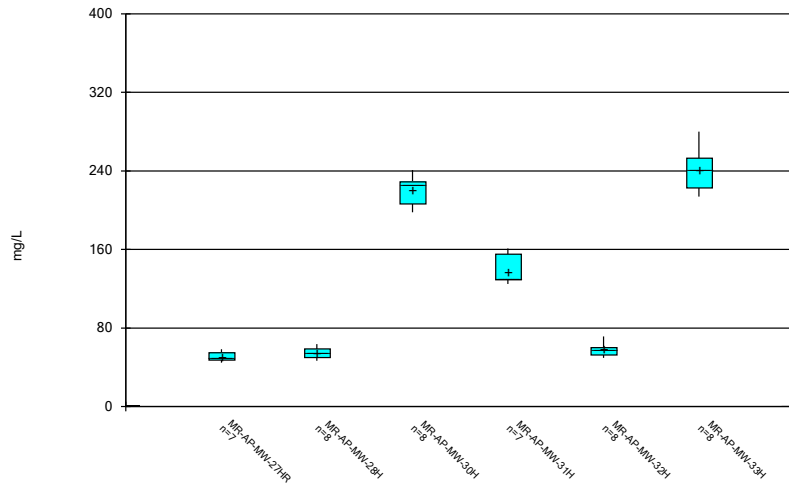
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



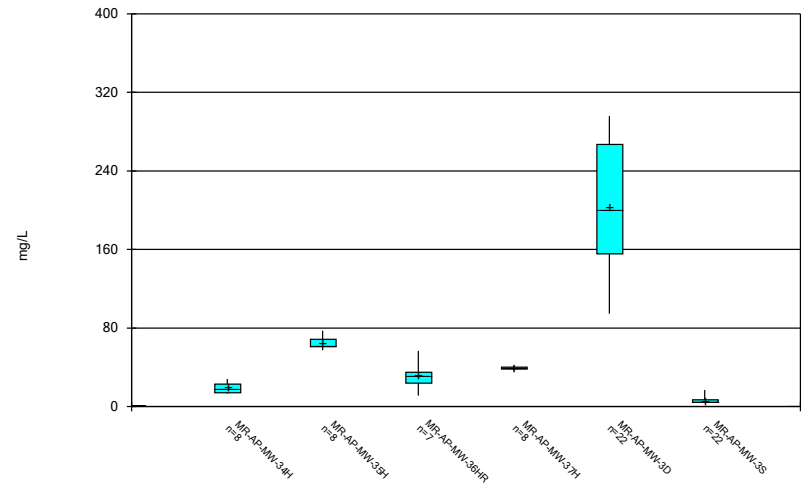
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



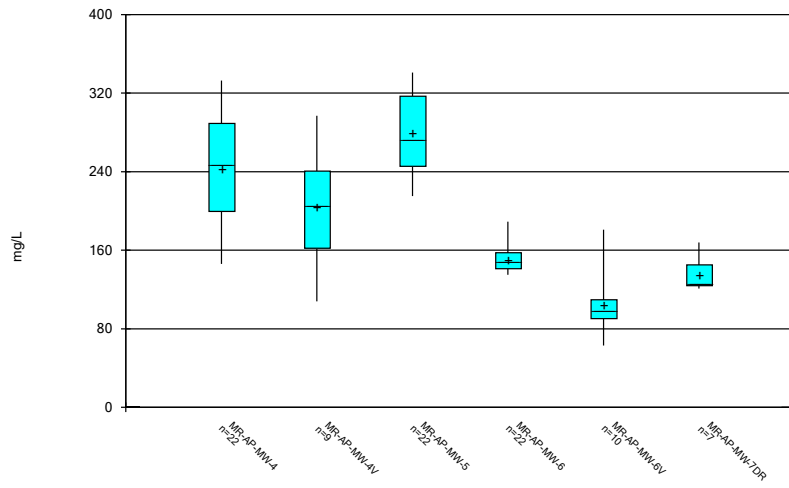
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



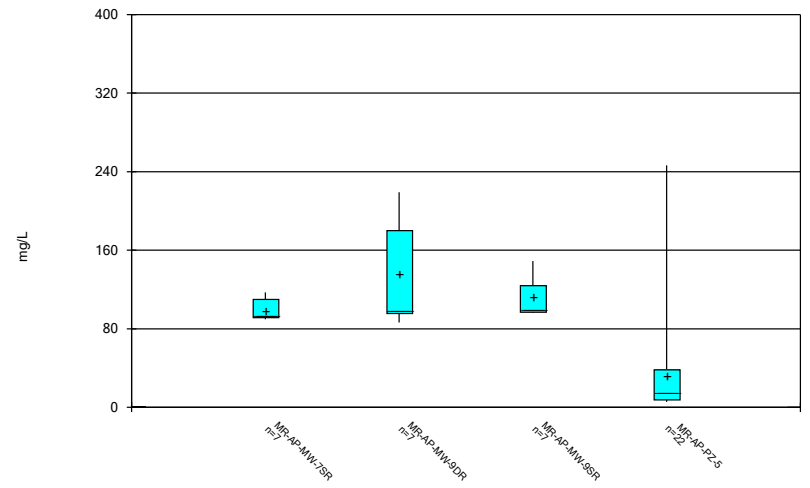
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



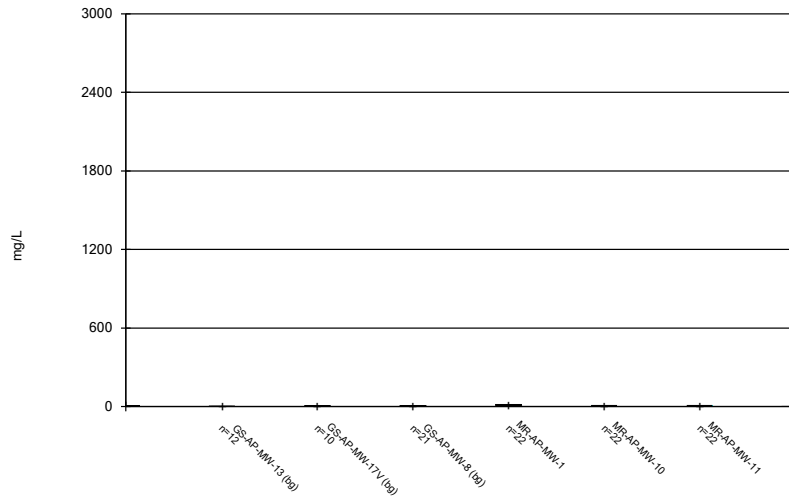
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



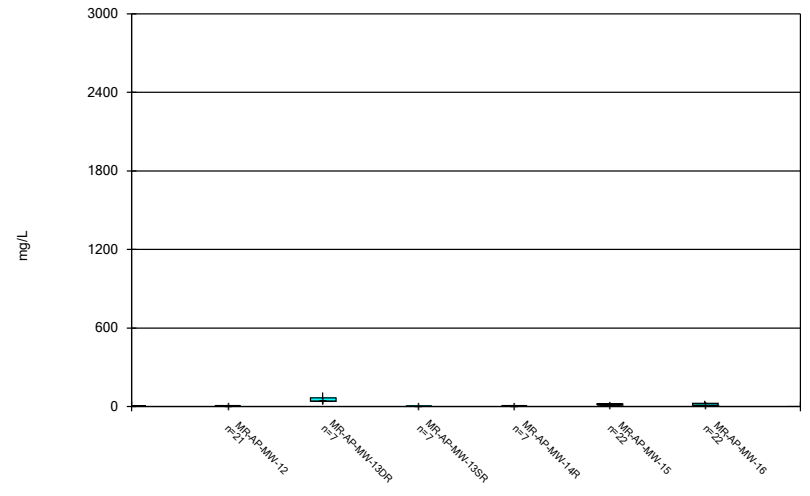
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



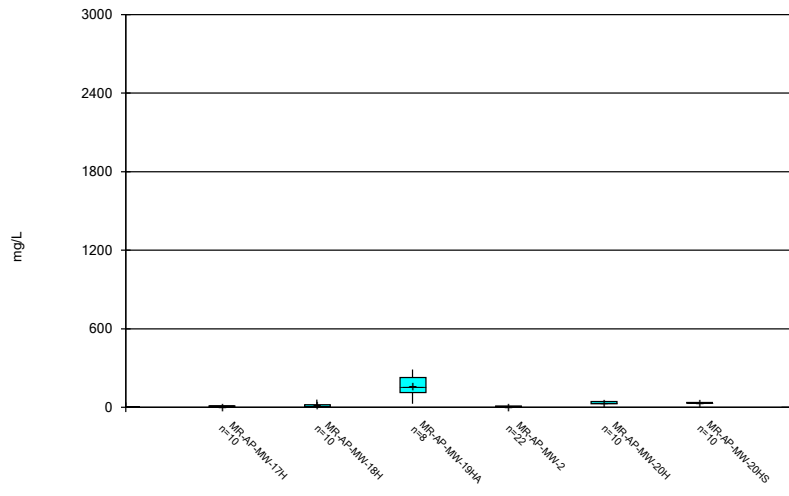
Constituent: Chloride, Total Analysis Run 12/22/2023 11:34 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



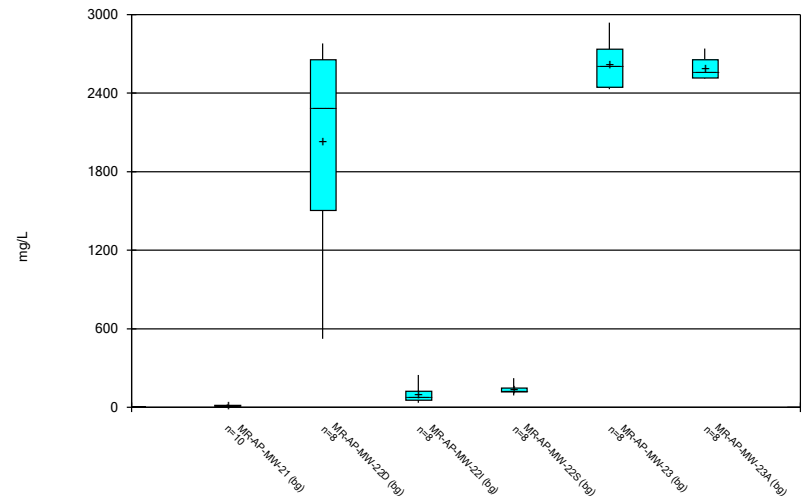
Constituent: Chloride, Total Analysis Run 12/22/2023 11:34 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



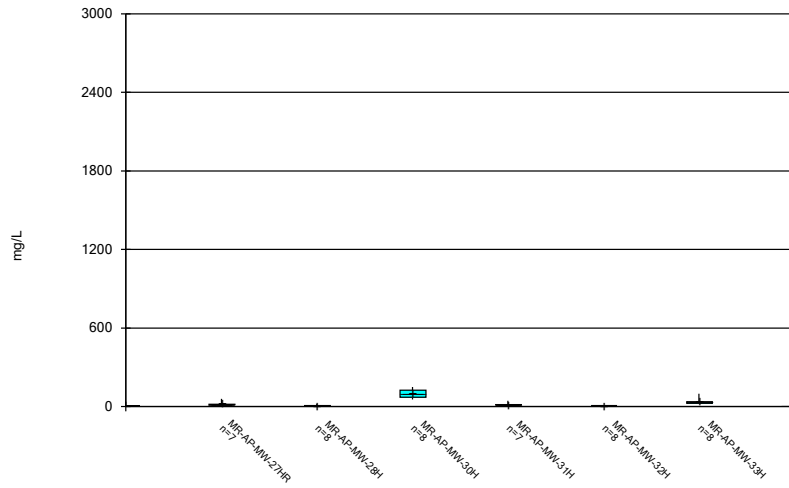
Constituent: Chloride, Total Analysis Run 12/22/2023 11:34 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



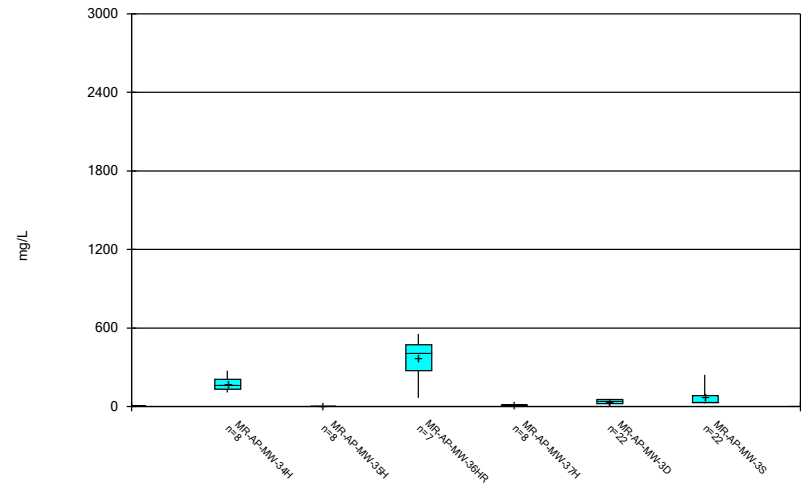
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Box & Whiskers Plot



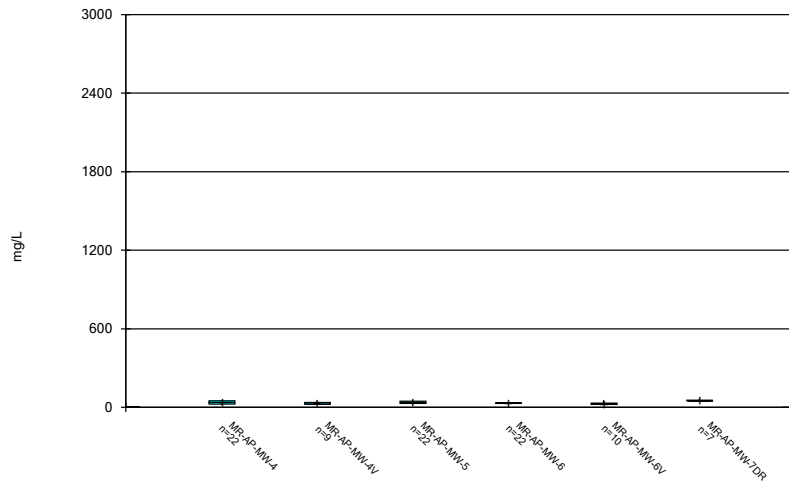
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Box & Whiskers Plot



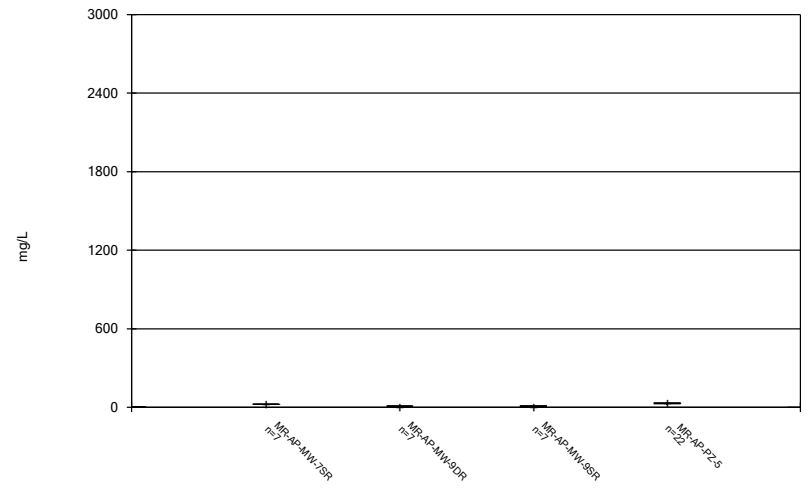
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Box & Whiskers Plot



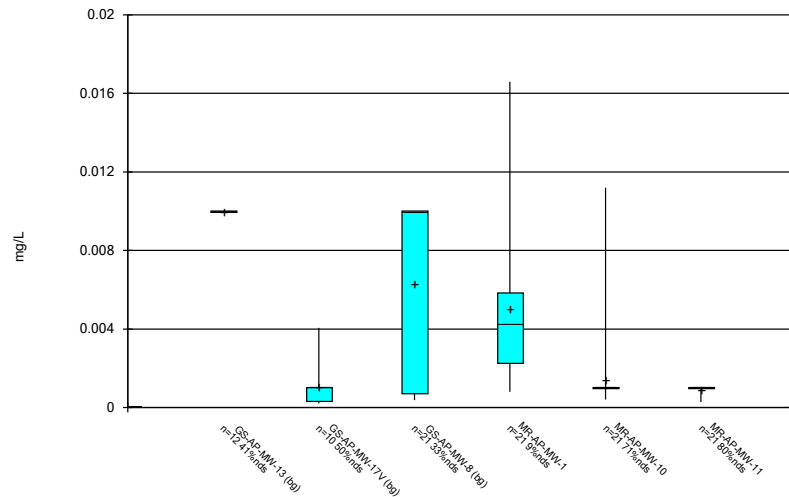
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Box & Whiskers Plot



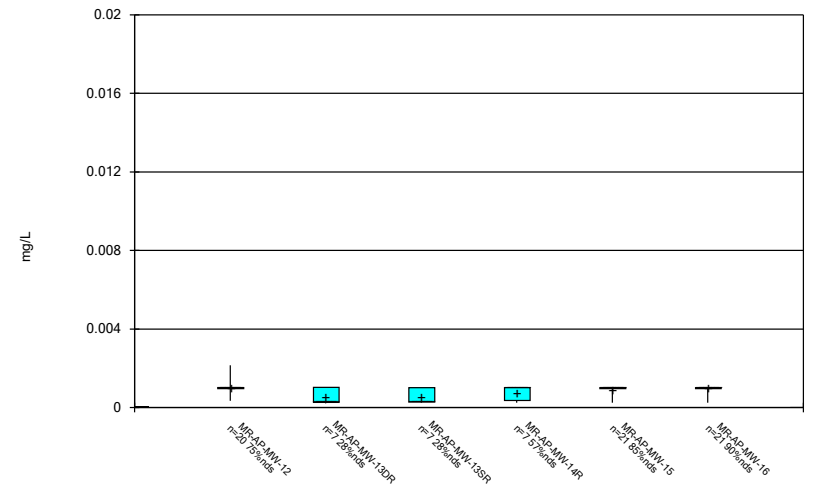
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Box & Whiskers Plot



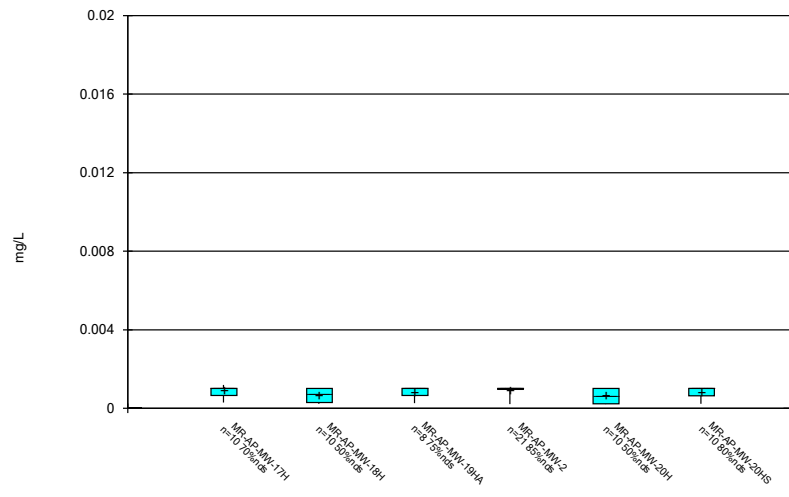
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Box & Whiskers Plot



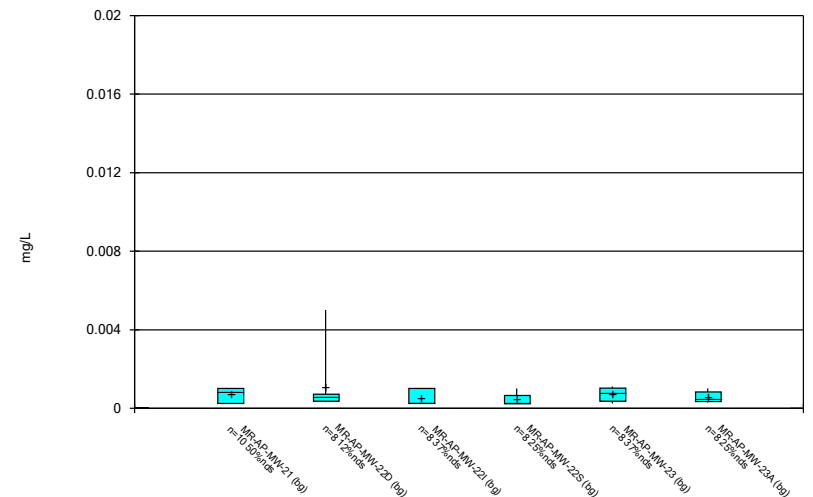
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Box & Whiskers Plot



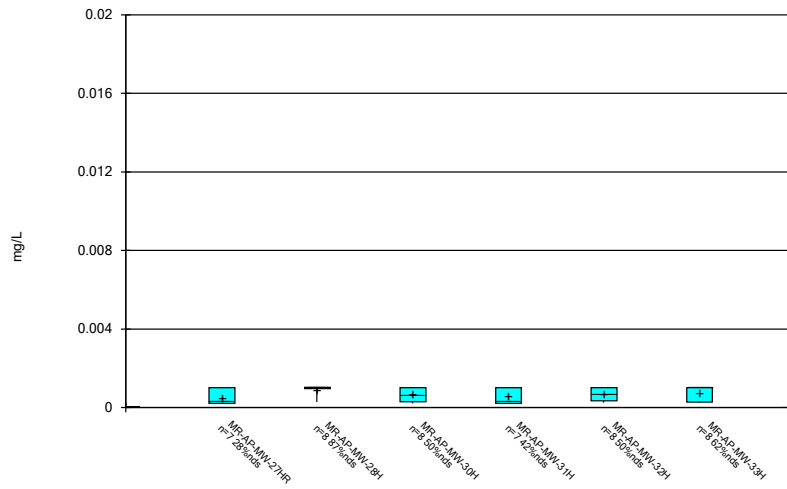
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Box & Whiskers Plot



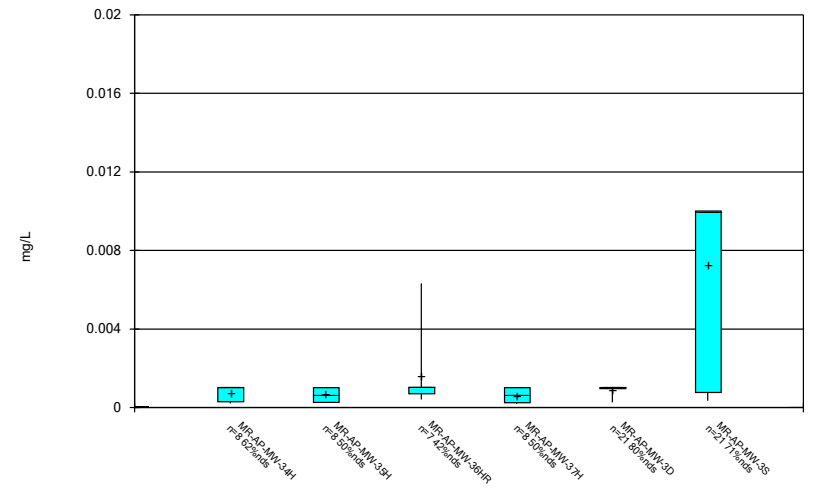
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Box & Whiskers Plot



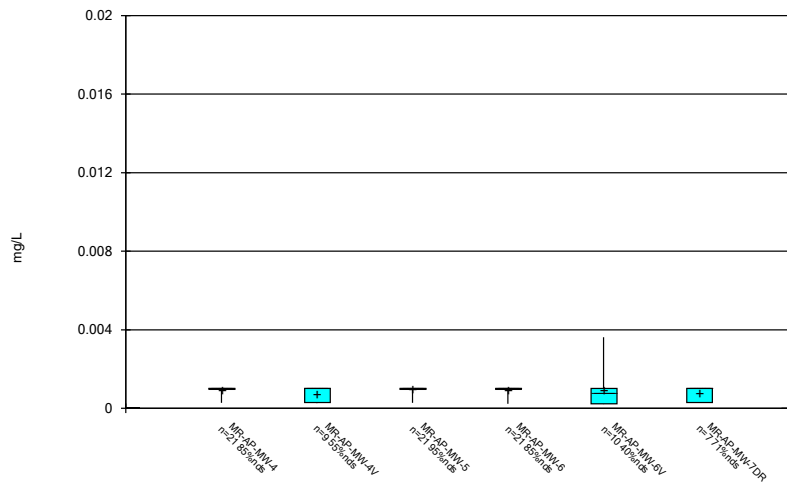
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Box & Whiskers Plot



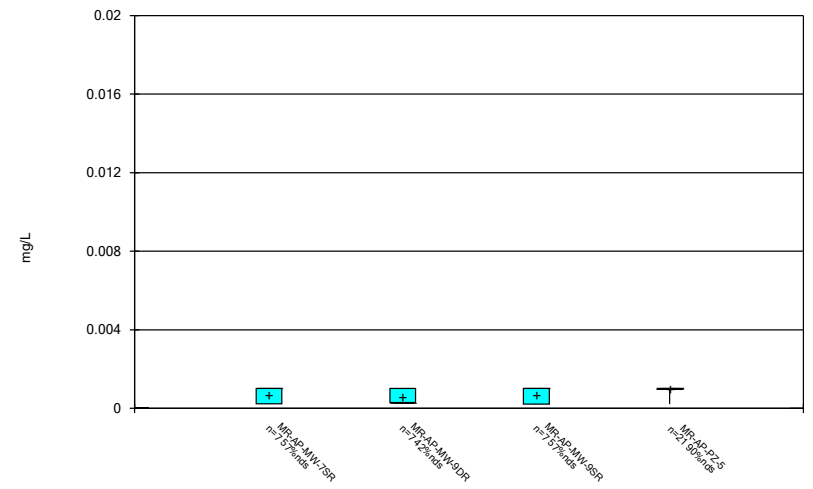
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Box & Whiskers Plot



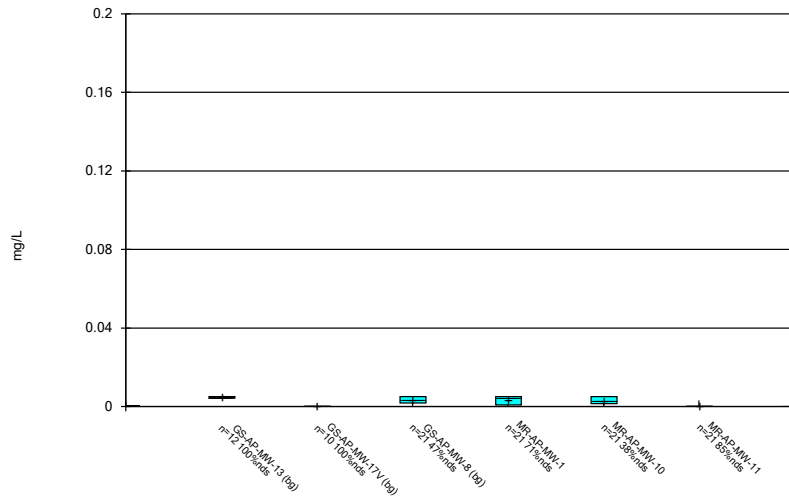
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Box & Whiskers Plot



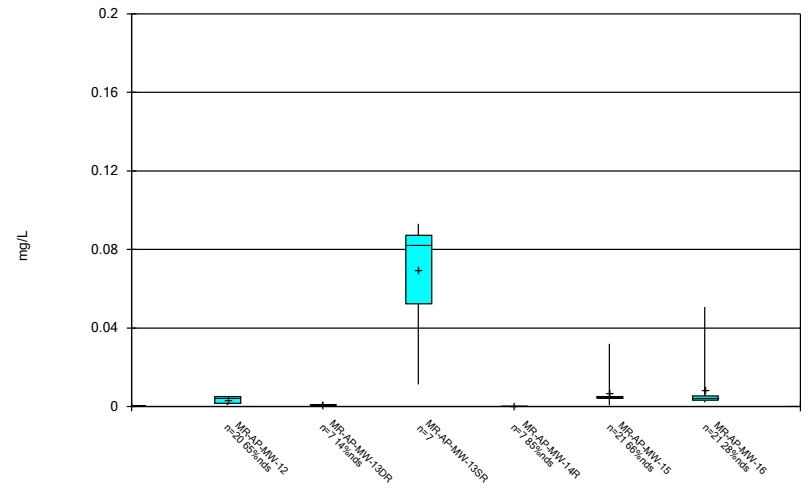
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Box & Whiskers Plot



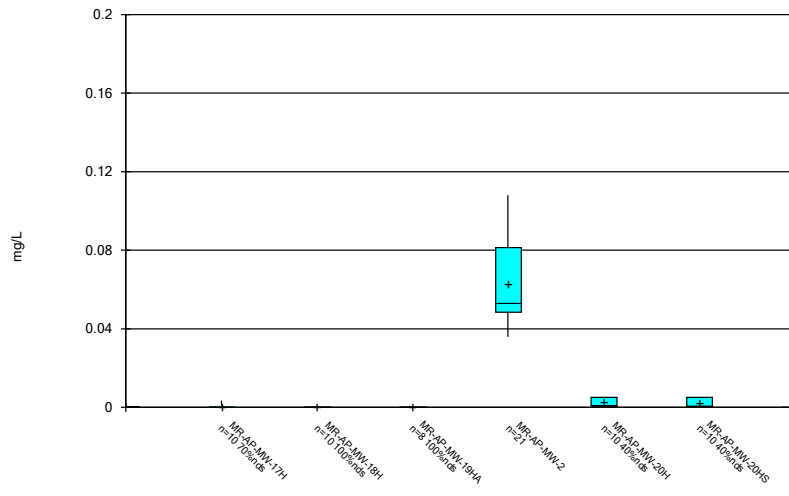
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Box & Whiskers Plot



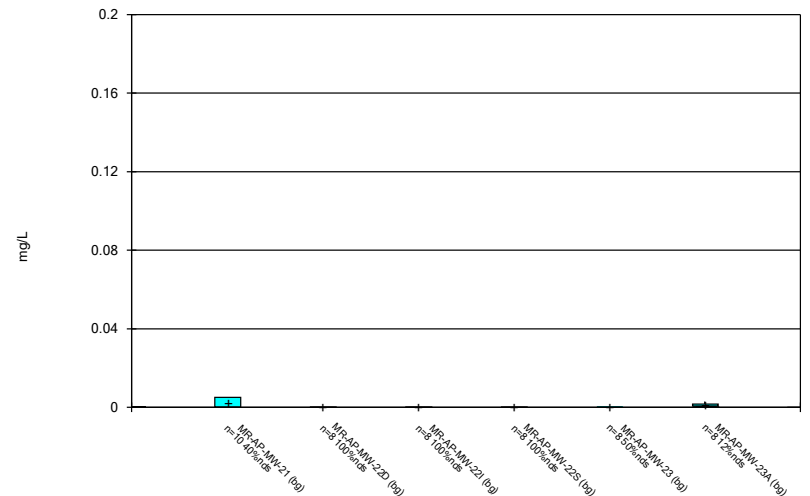
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Box & Whiskers Plot



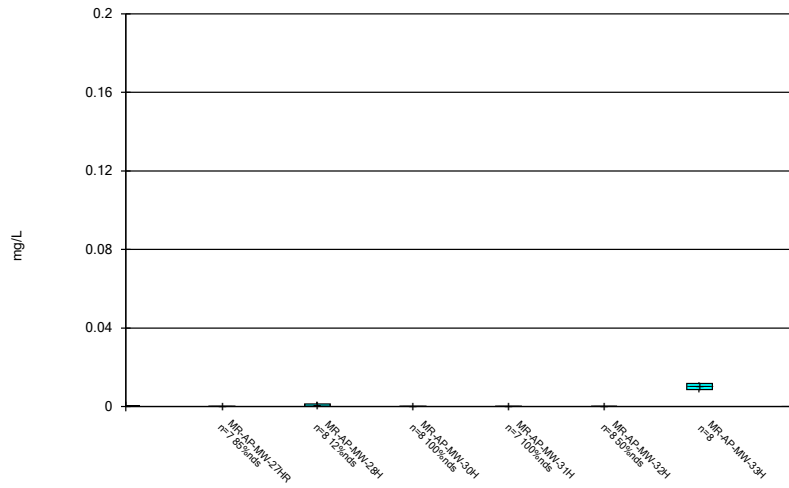
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Box & Whiskers Plot



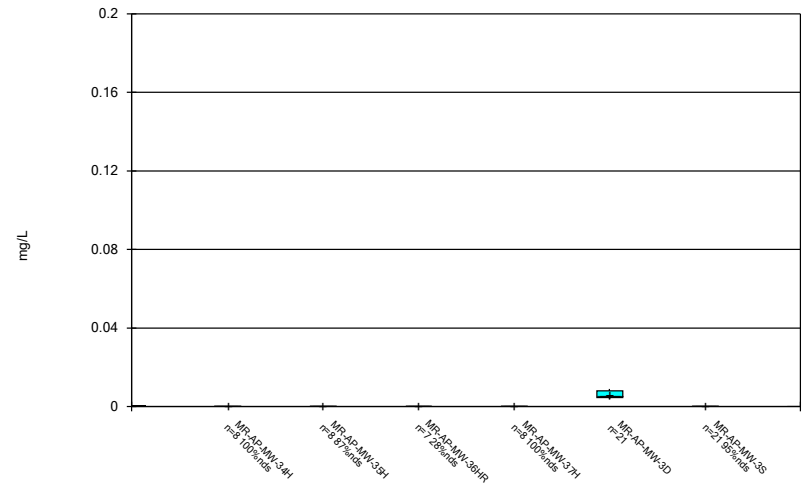
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Box & Whiskers Plot



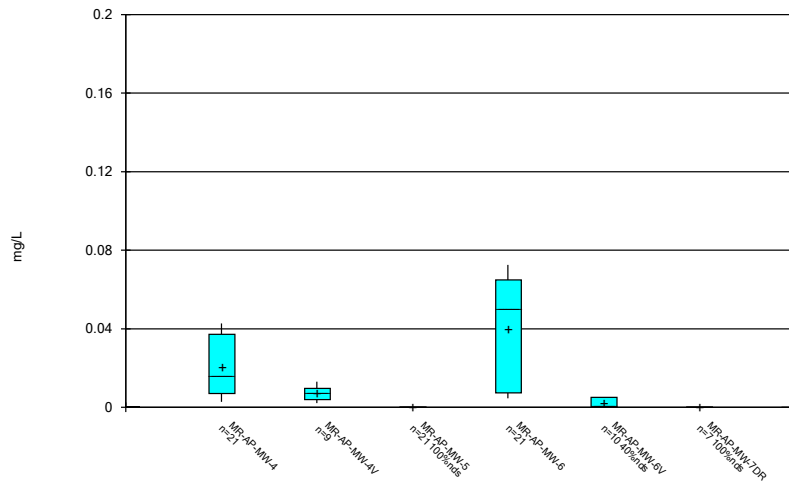
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Box & Whiskers Plot



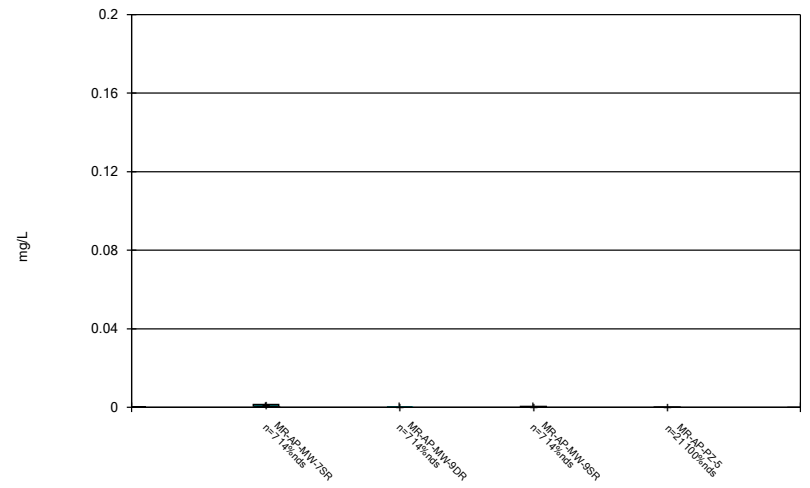
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Box & Whiskers Plot



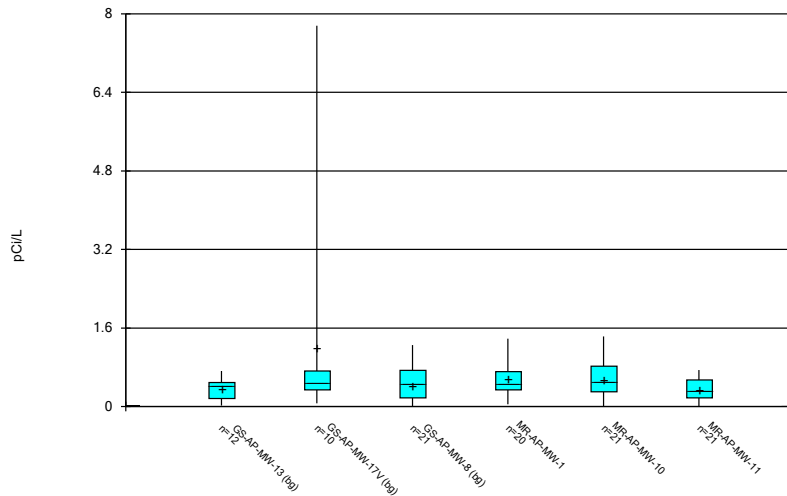
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Box & Whiskers Plot



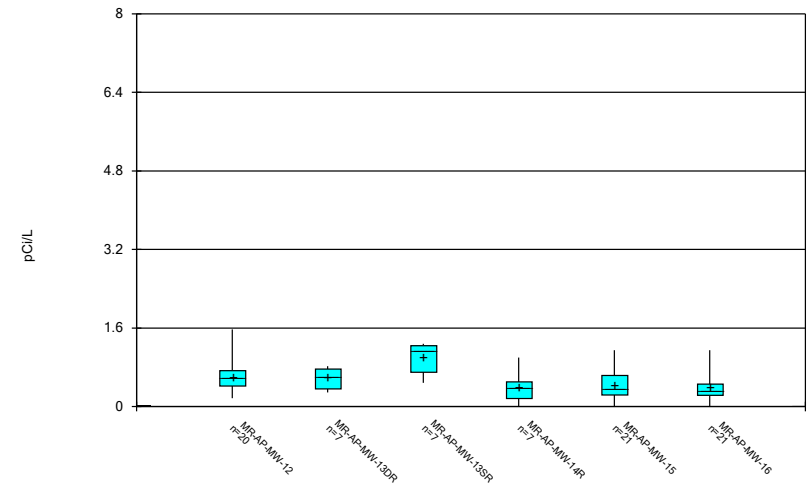
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Box & Whiskers Plot



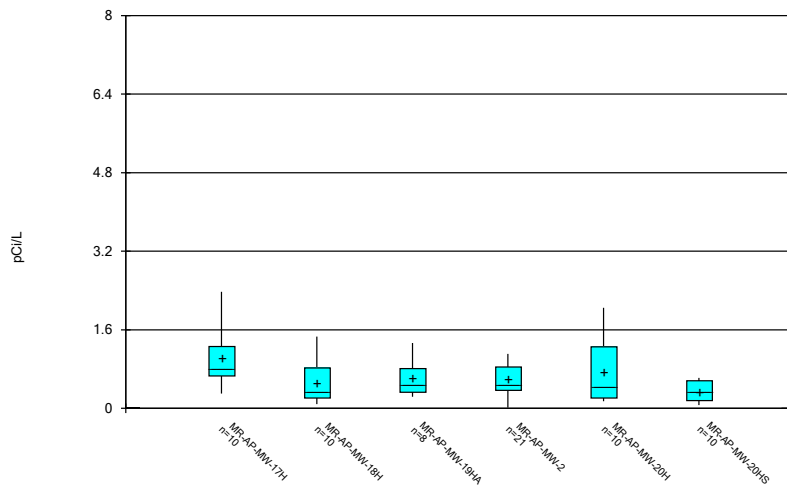
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Box & Whiskers Plot



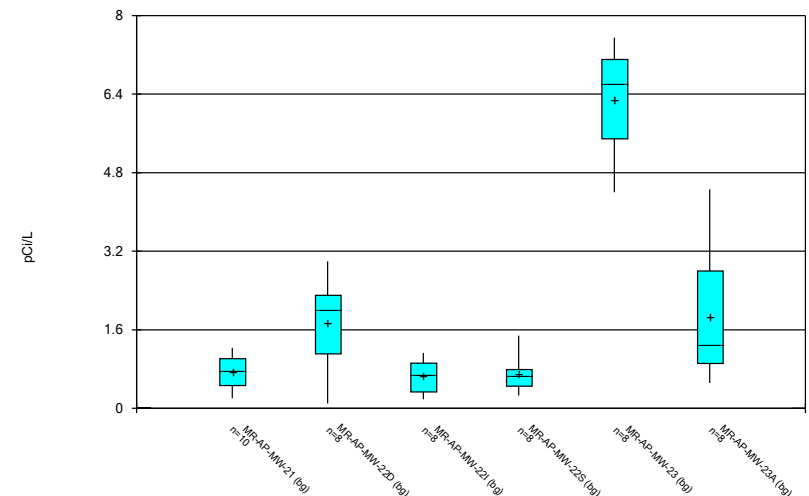
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Box & Whiskers Plot



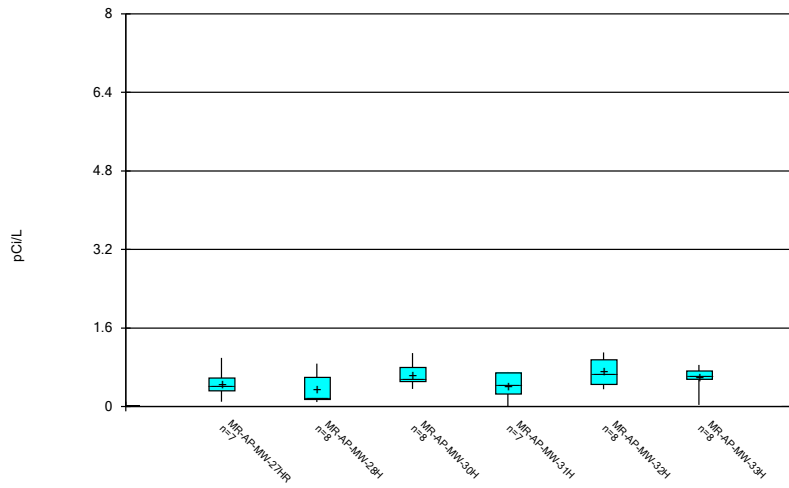
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Box & Whiskers Plot



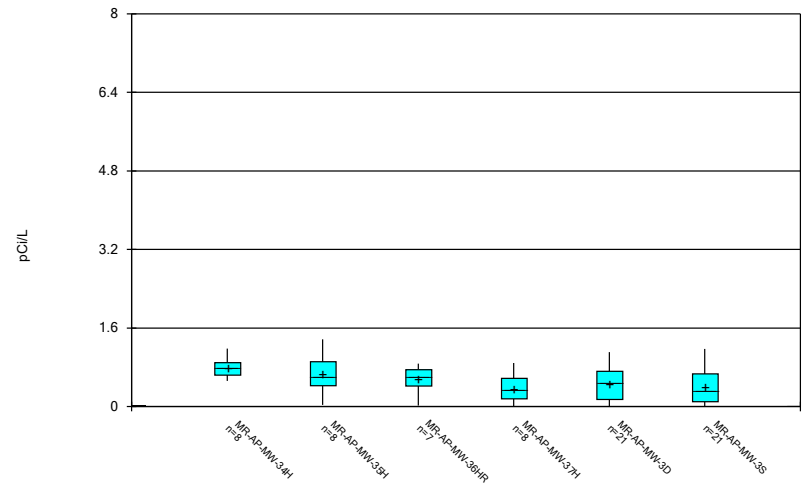
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Box & Whiskers Plot



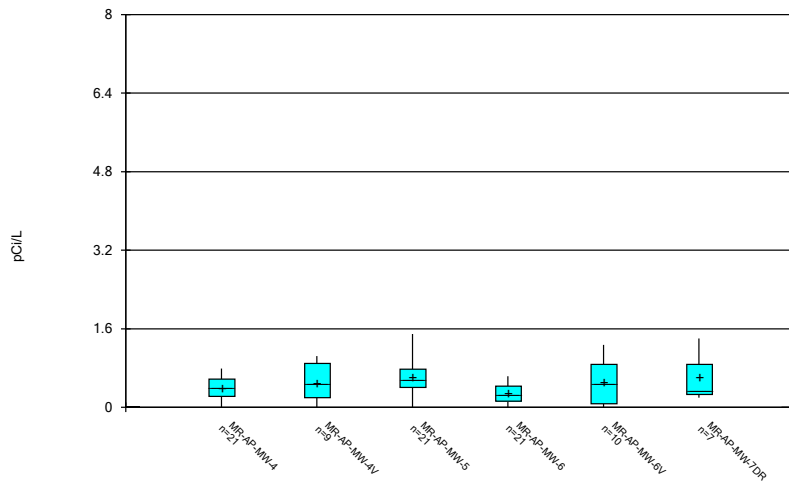
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Box & Whiskers Plot



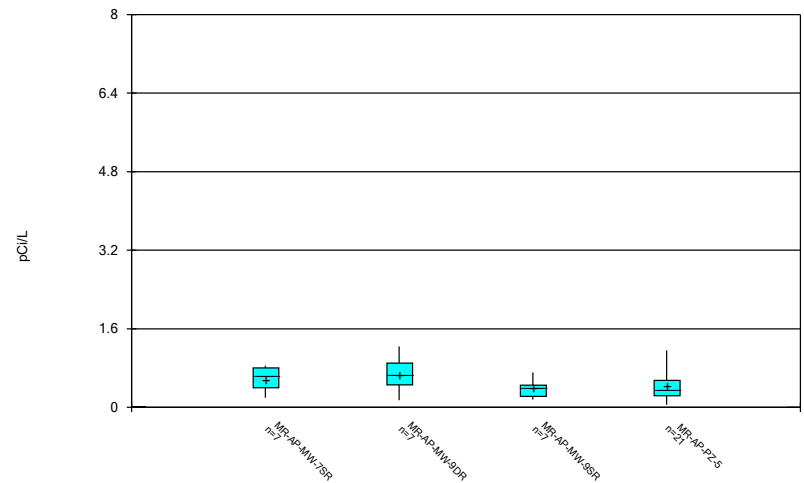
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Box & Whiskers Plot



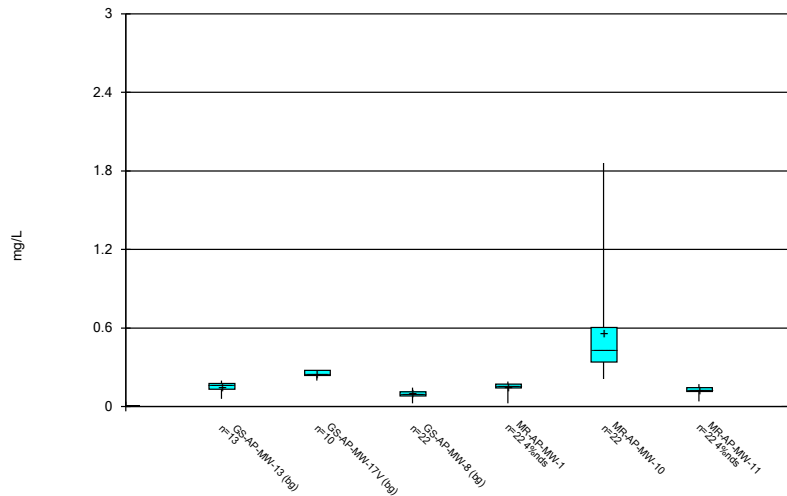
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Box & Whiskers Plot



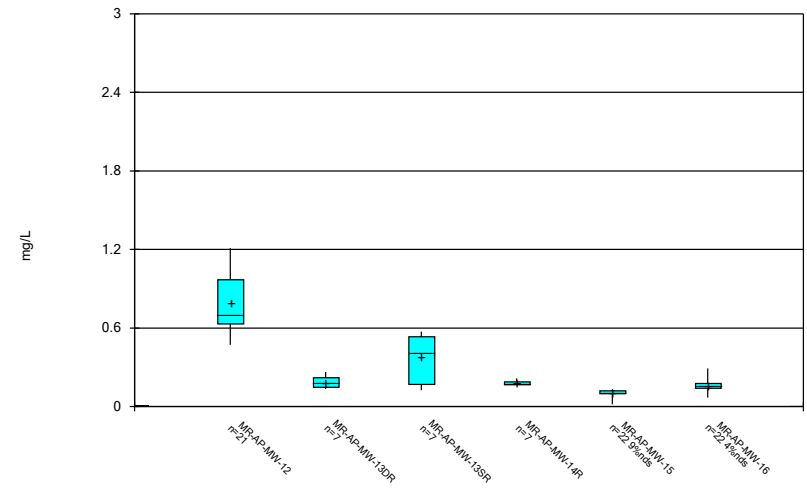
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Box & Whiskers Plot



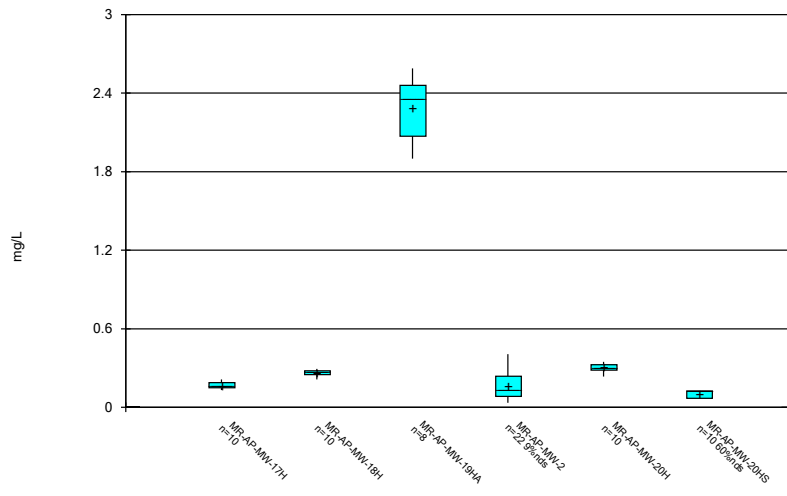
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Box & Whiskers Plot



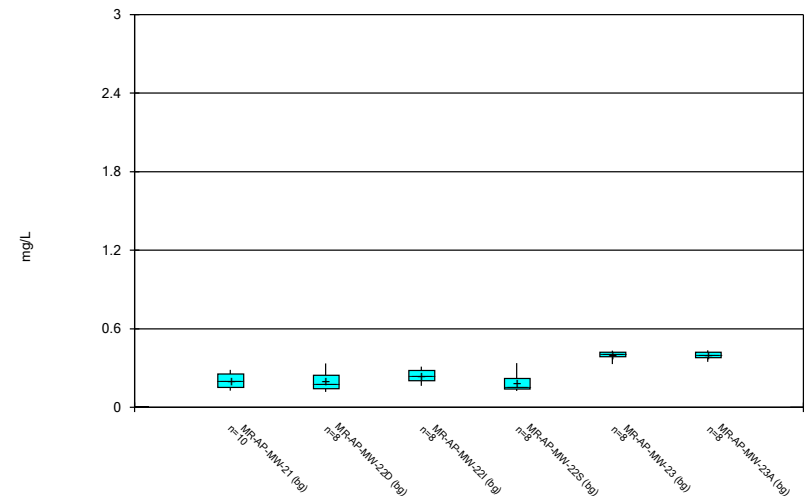
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Box & Whiskers Plot



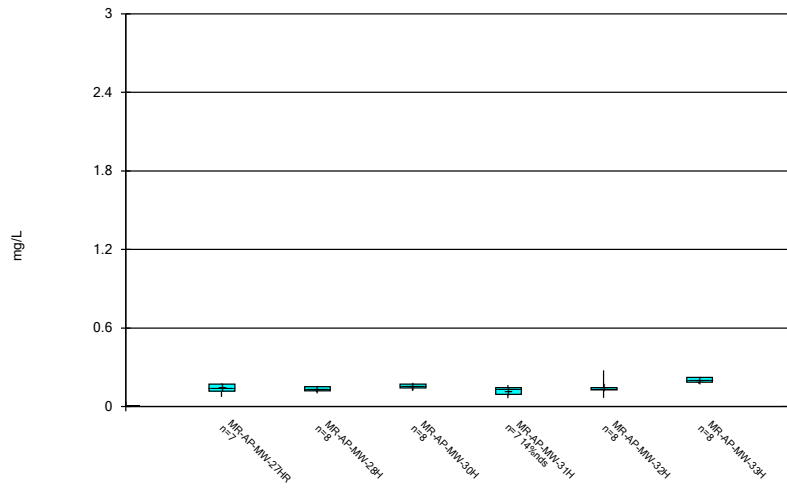
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Box & Whiskers Plot



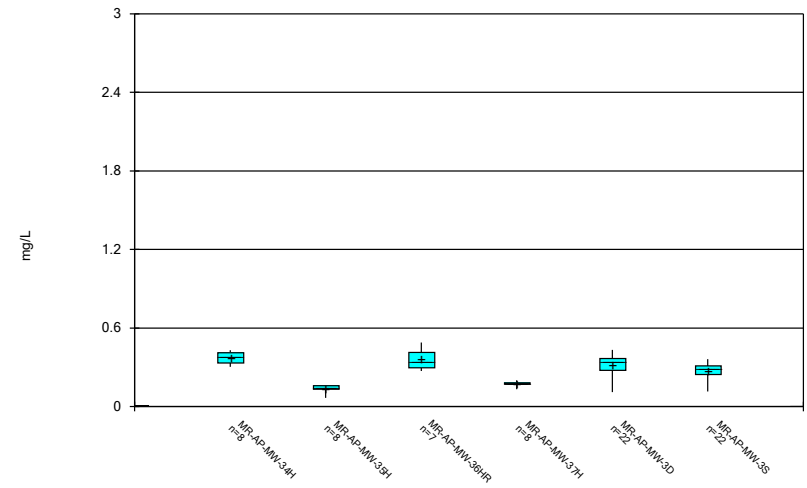
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Box & Whiskers Plot



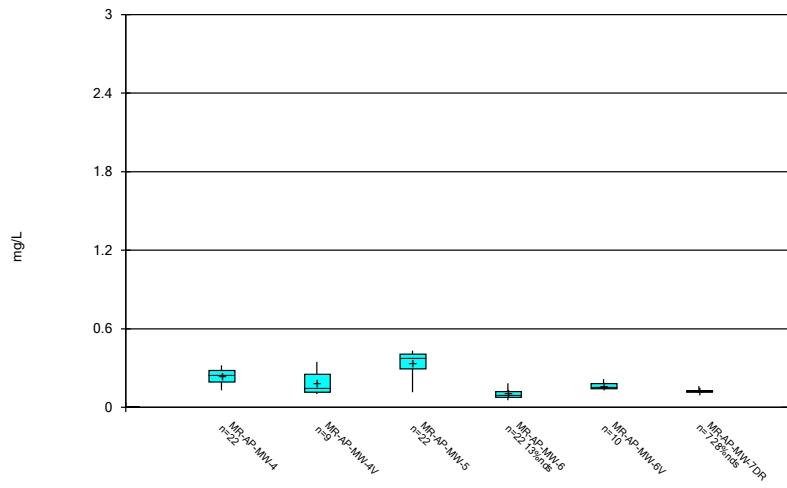
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Box & Whiskers Plot



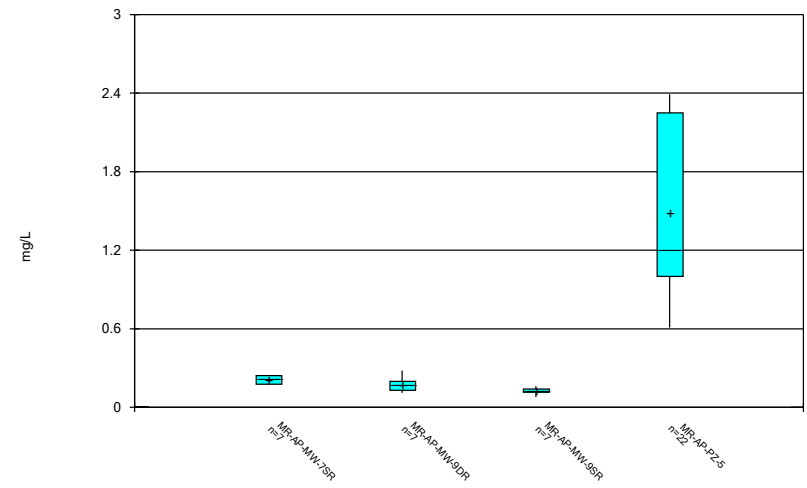
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Box & Whiskers Plot



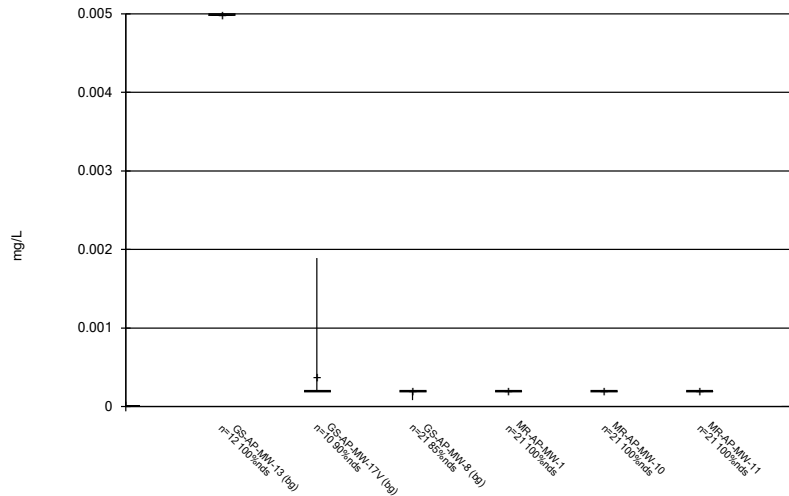
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Box & Whiskers Plot



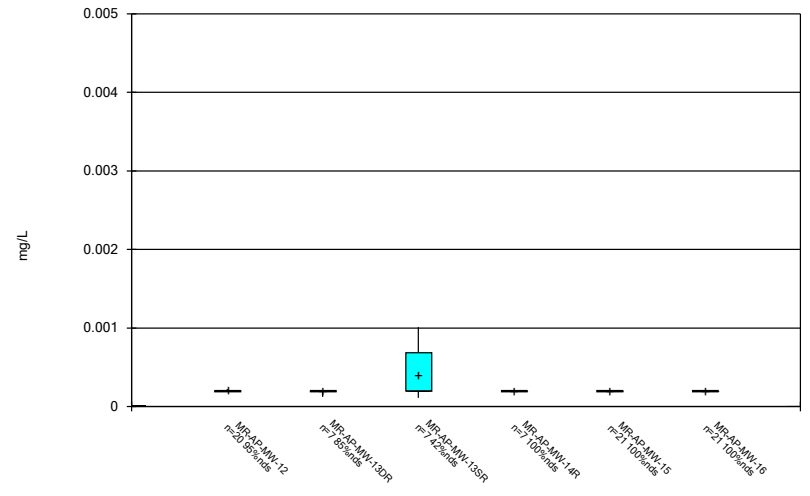
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Box & Whiskers Plot



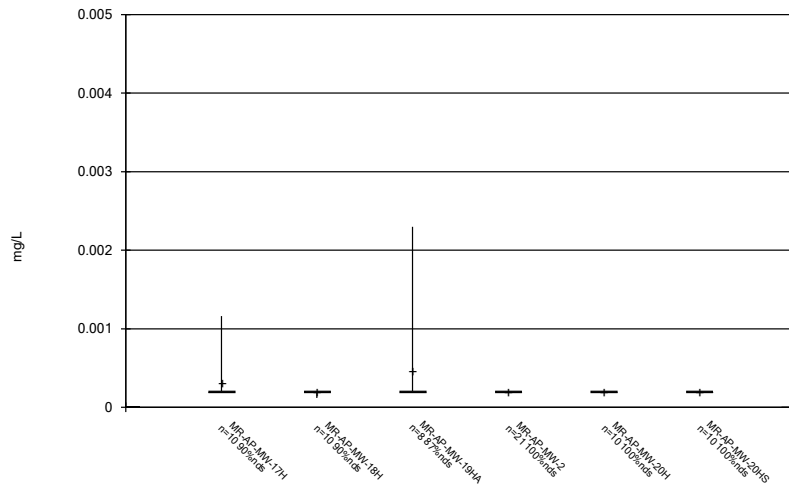
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Box & Whiskers Plot



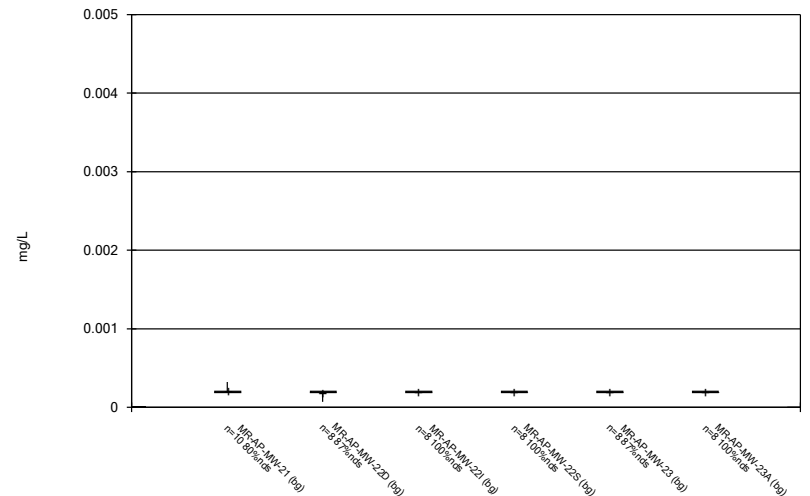
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Box & Whiskers Plot



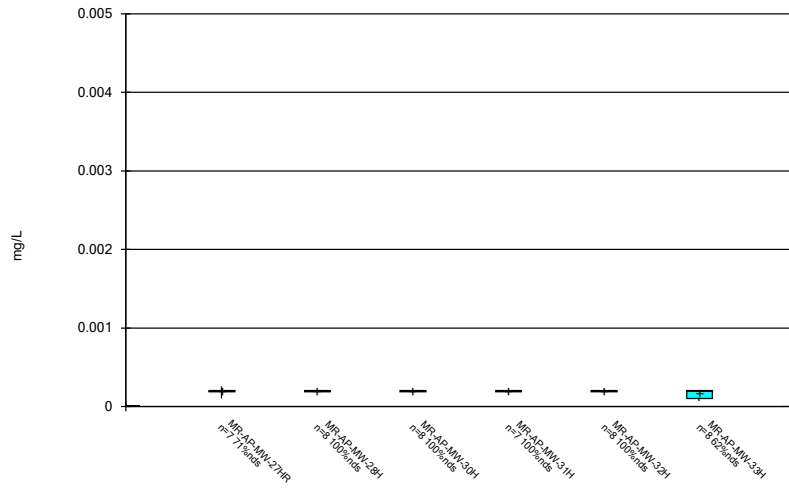
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Box & Whiskers Plot



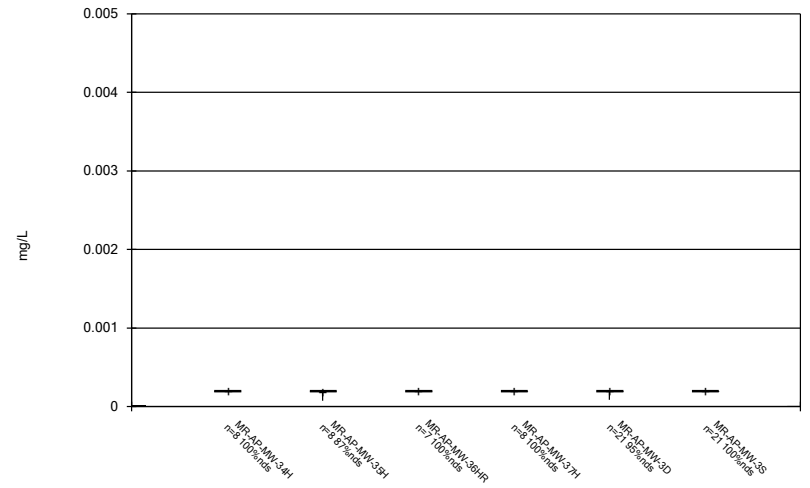
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Box & Whiskers Plot



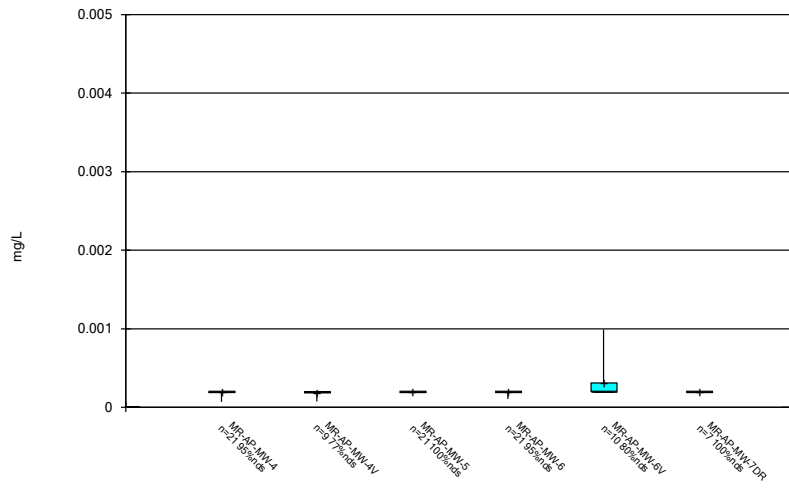
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Box & Whiskers Plot



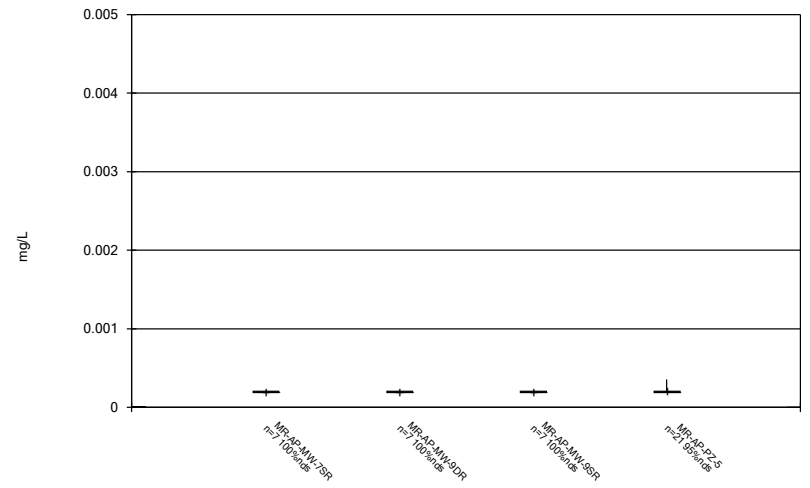
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Box & Whiskers Plot



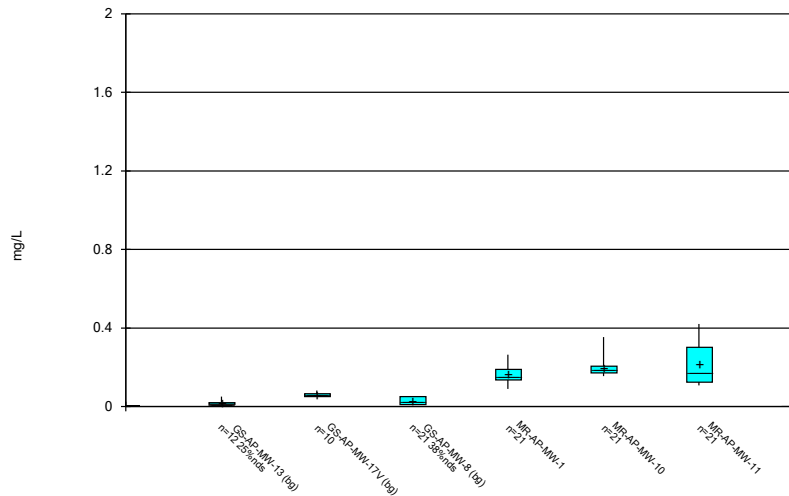
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Box & Whiskers Plot



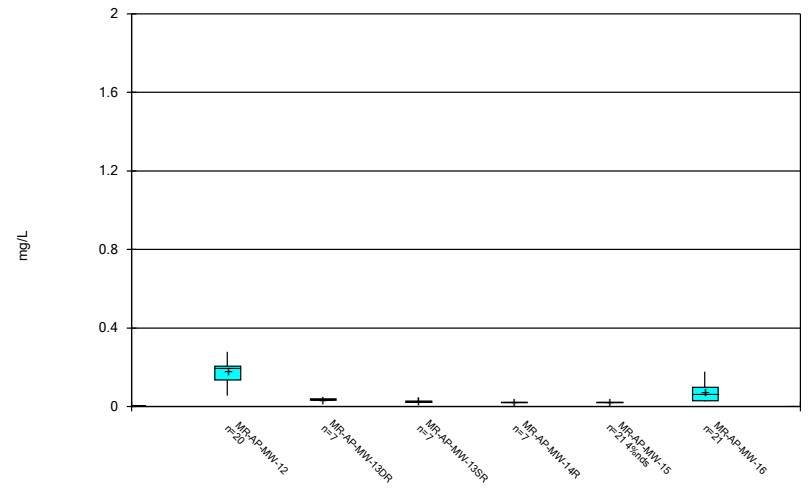
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Box & Whiskers Plot



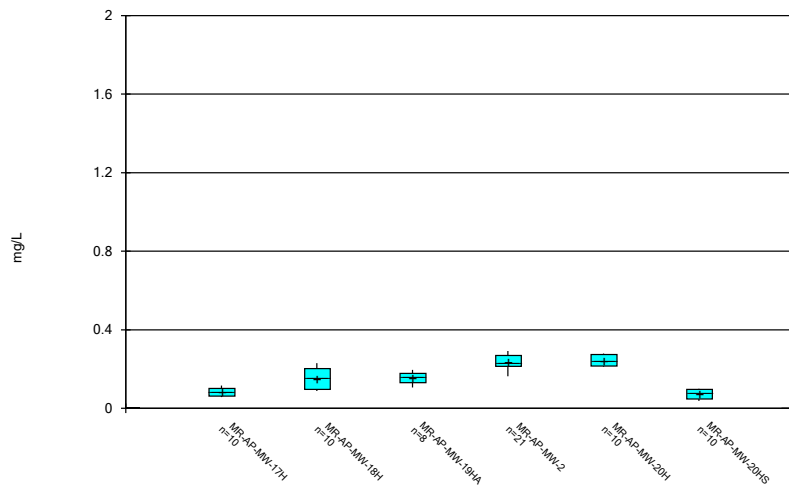
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Box & Whiskers Plot



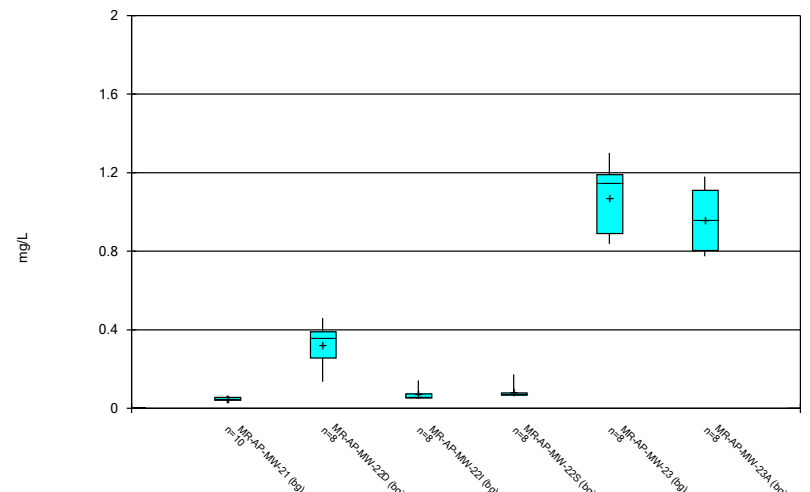
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Box & Whiskers Plot



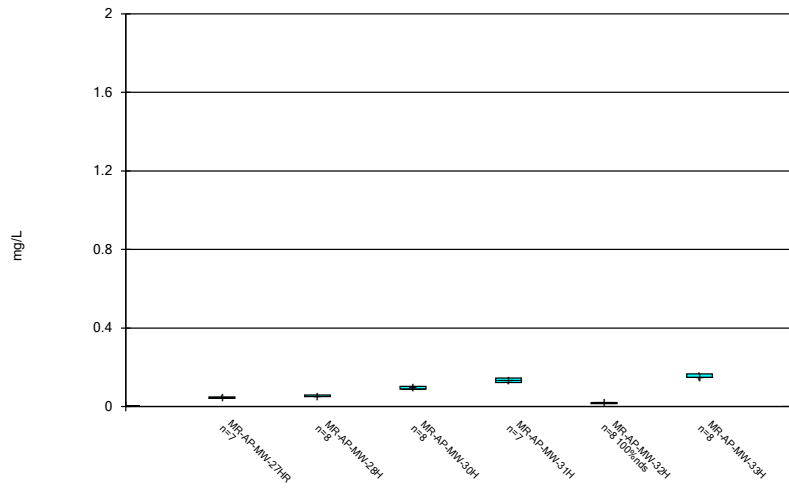
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Box & Whiskers Plot



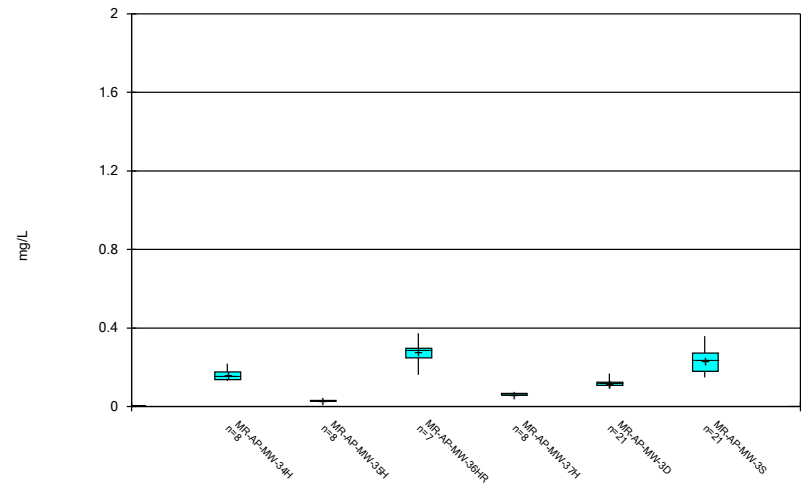
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Box & Whiskers Plot



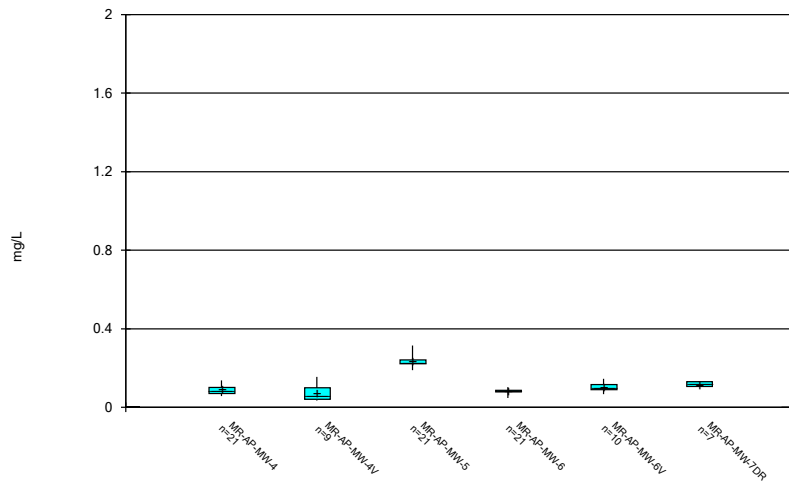
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Box & Whiskers Plot



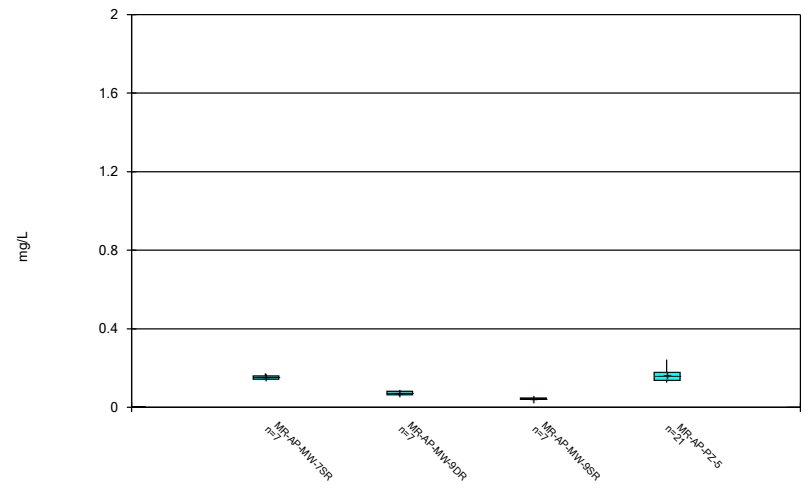
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Box & Whiskers Plot



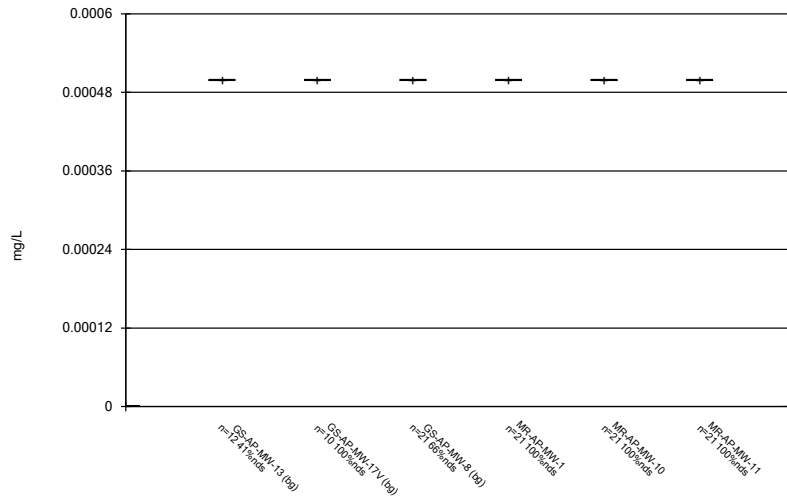
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Box & Whiskers Plot



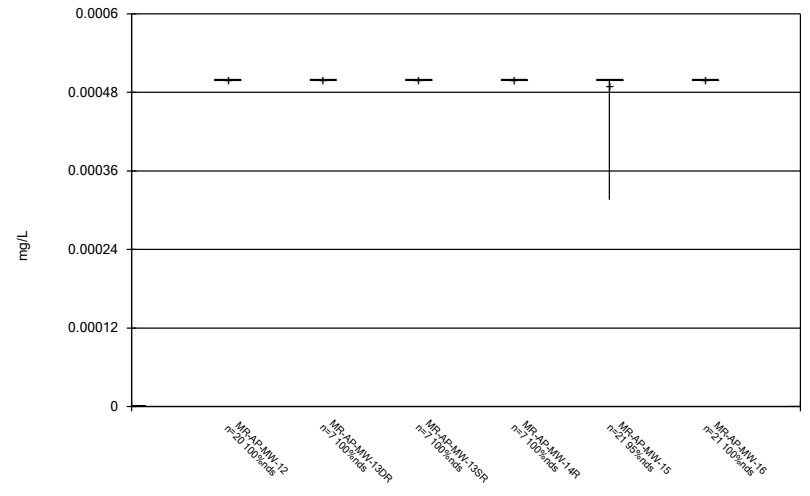
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Box & Whiskers Plot



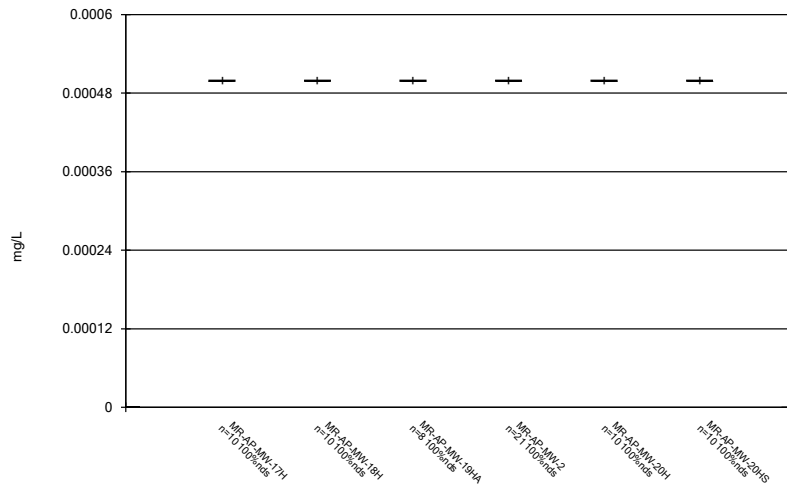
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Box & Whiskers Plot



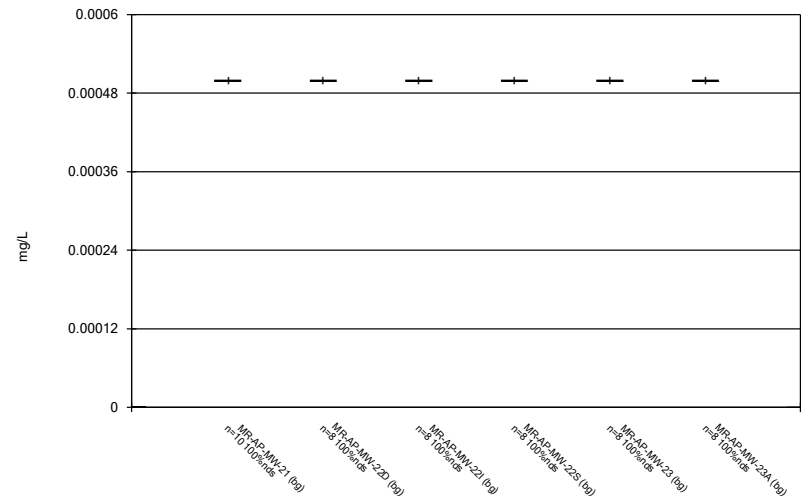
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Box & Whiskers Plot



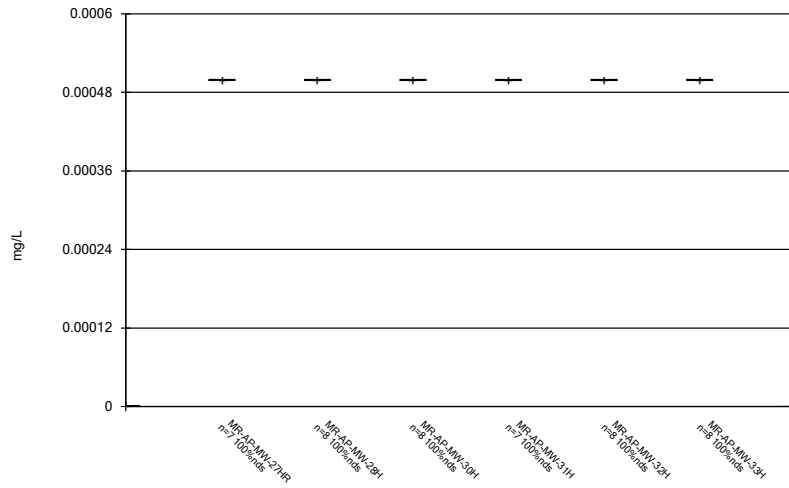
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Box & Whiskers Plot



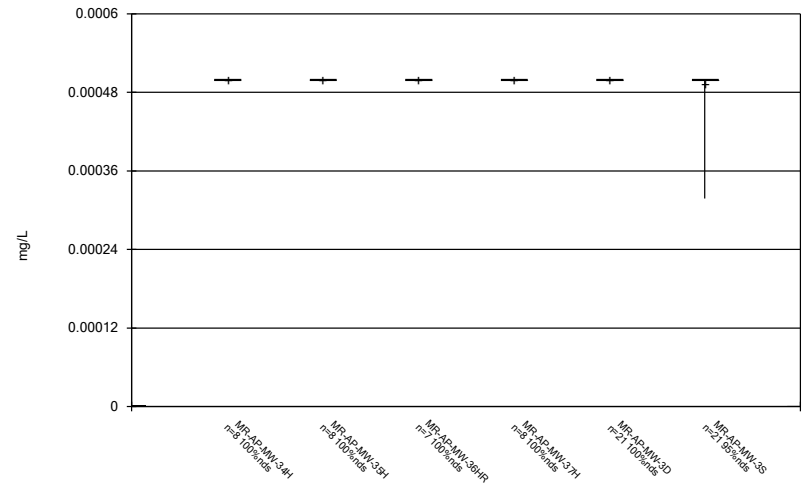
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Box & Whiskers Plot



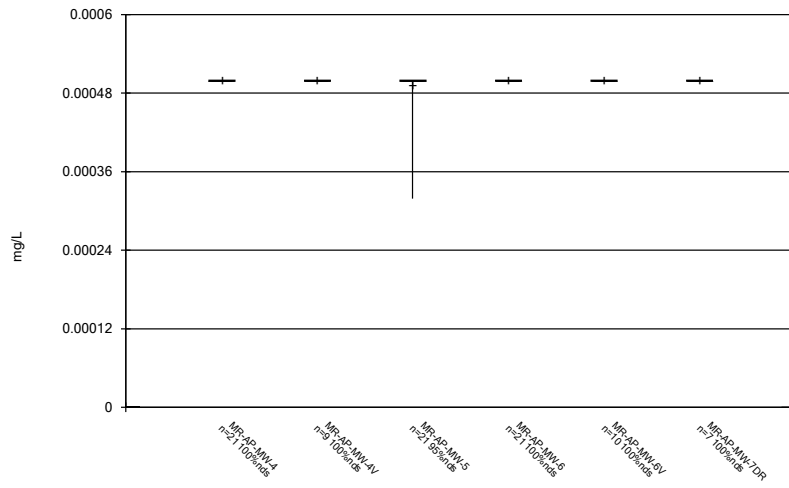
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Box & Whiskers Plot



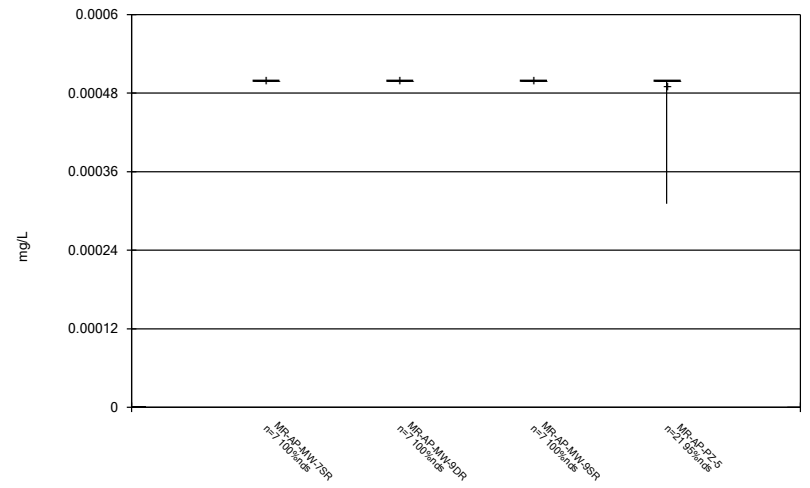
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Box & Whiskers Plot



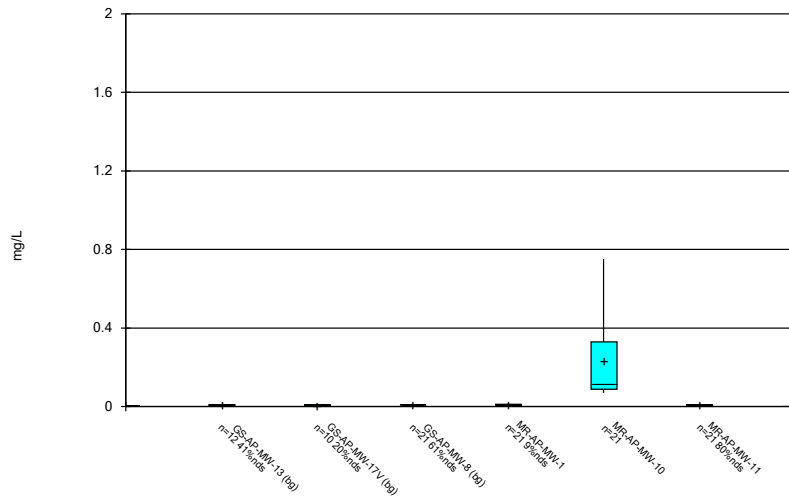
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



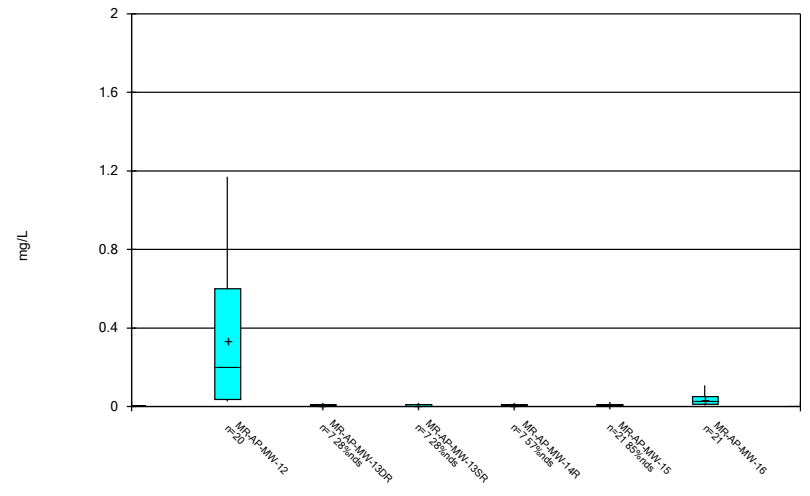
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Box & Whiskers Plot



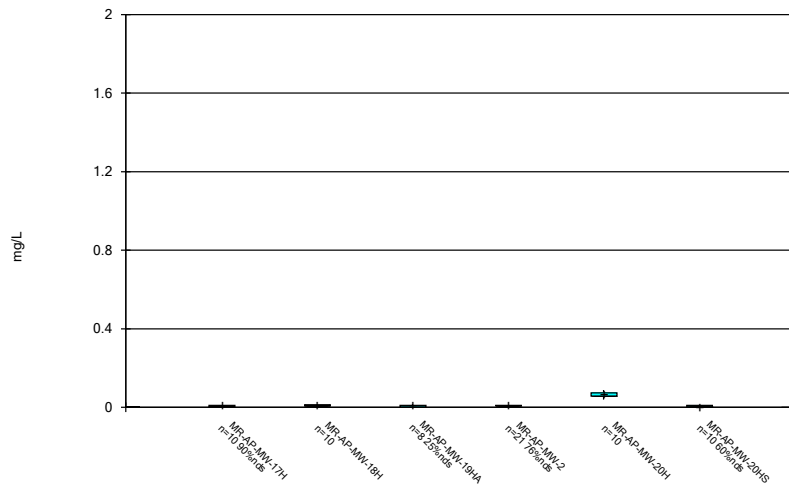
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



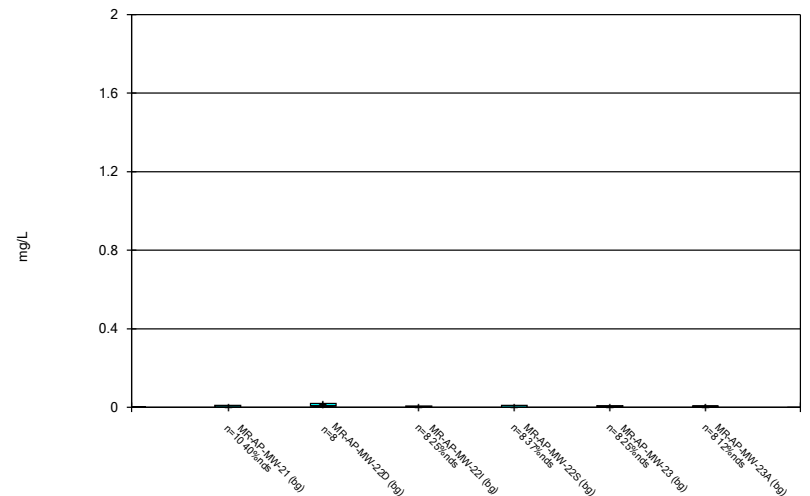
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Box & Whiskers Plot



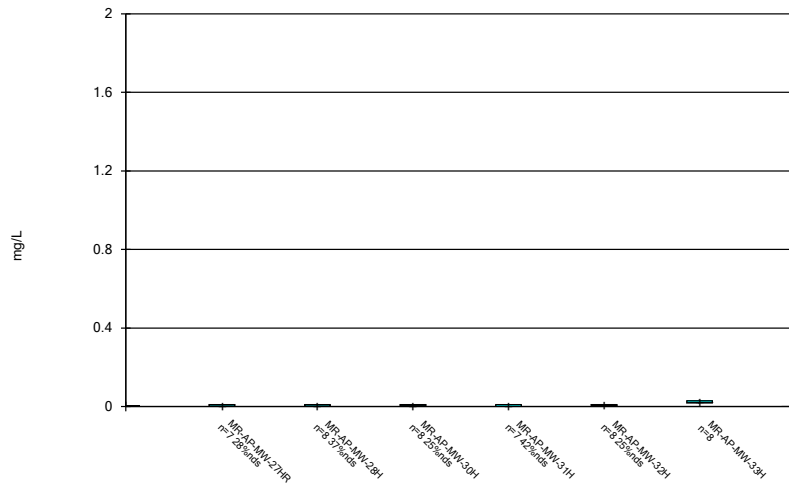
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Box & Whiskers Plot



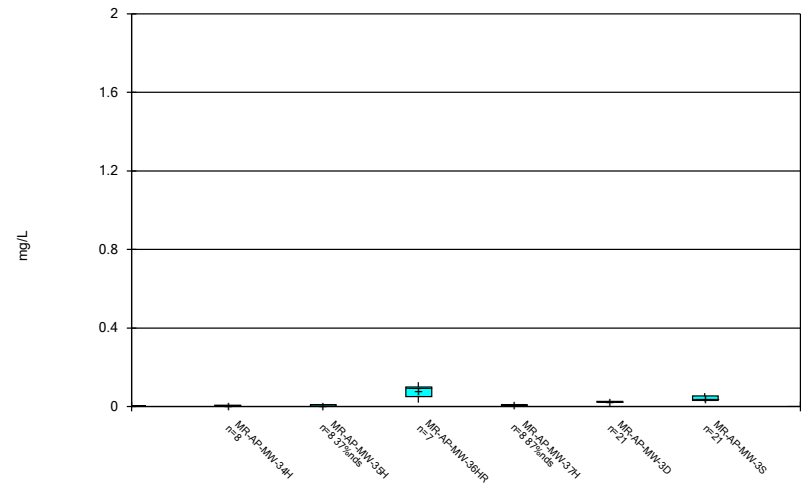
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Box & Whiskers Plot



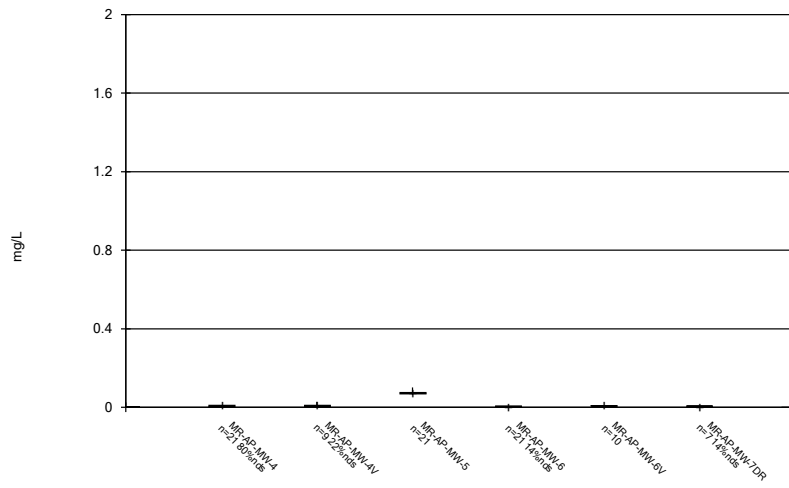
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



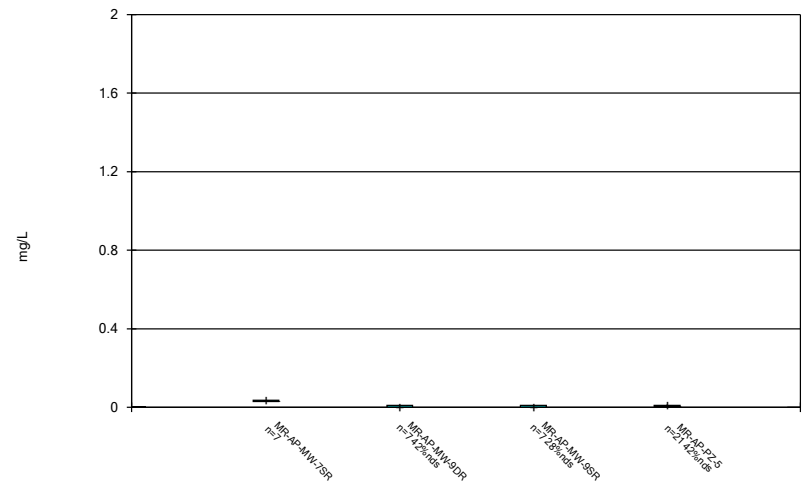
Constituent: Molybdenum Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



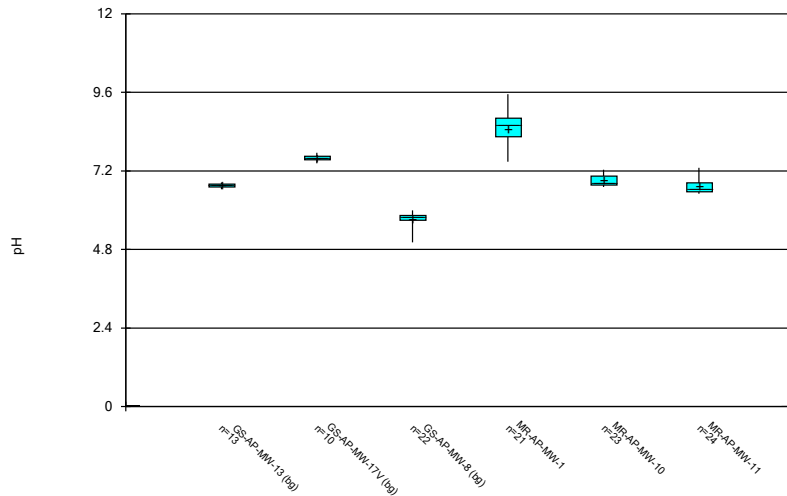
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



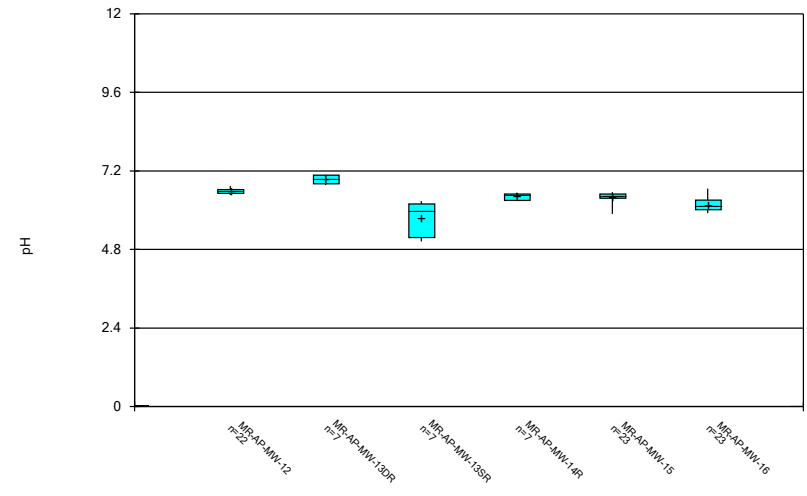
Constituent: Molybdenum Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



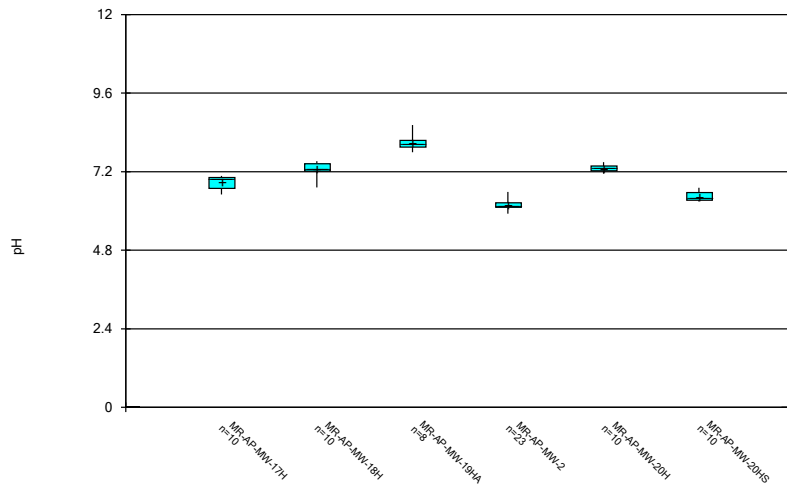
Constituent: pH, Field Analysis Run 12/22/2023 11:35 AM
 Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



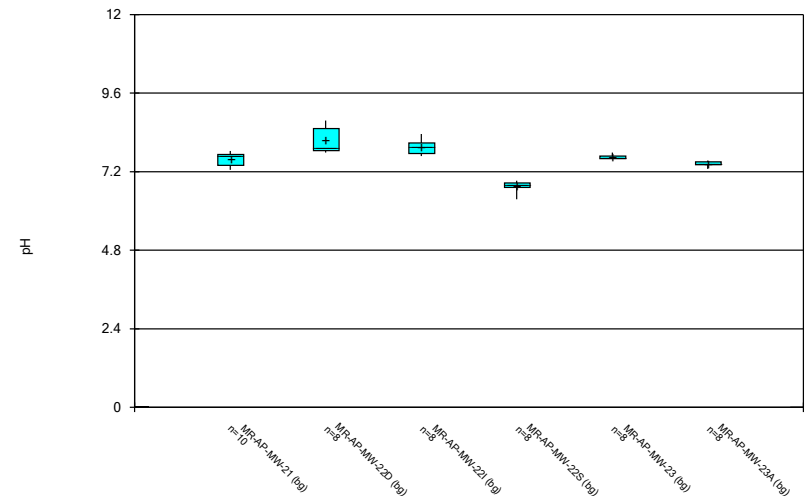
Constituent: pH, Field Analysis Run 12/22/2023 11:35 AM
 Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



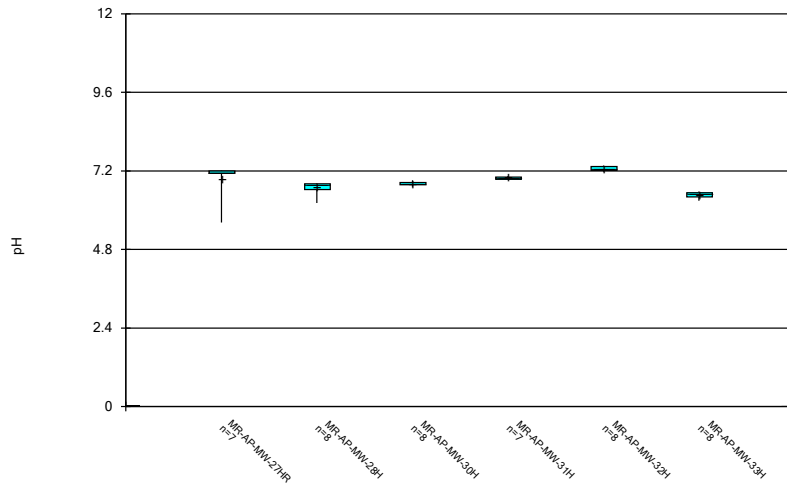
Constituent: pH, Field Analysis Run 12/22/2023 11:35 AM
 Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



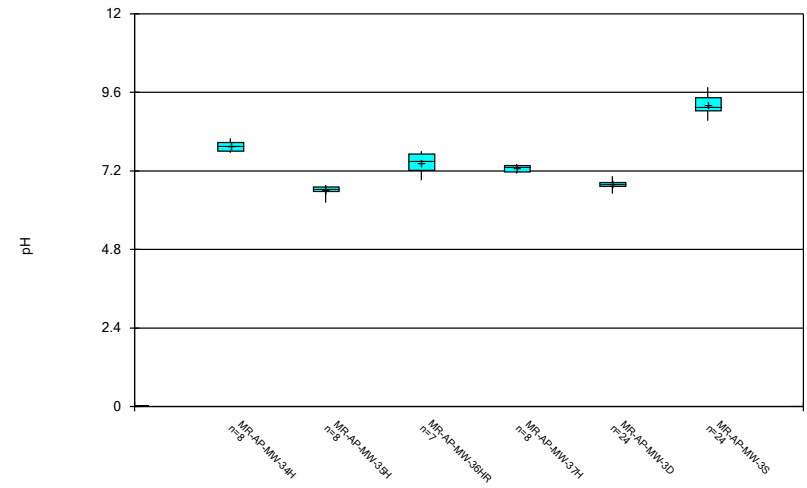
Constituent: pH, Field Analysis Run 12/22/2023 11:35 AM
 Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



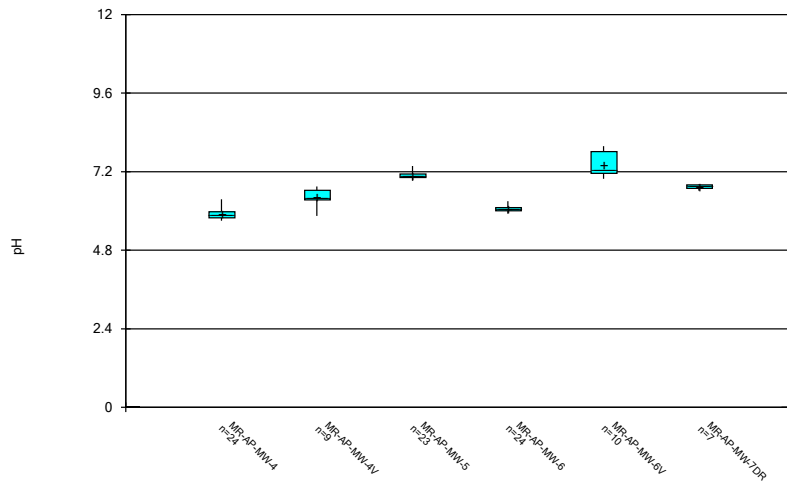
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



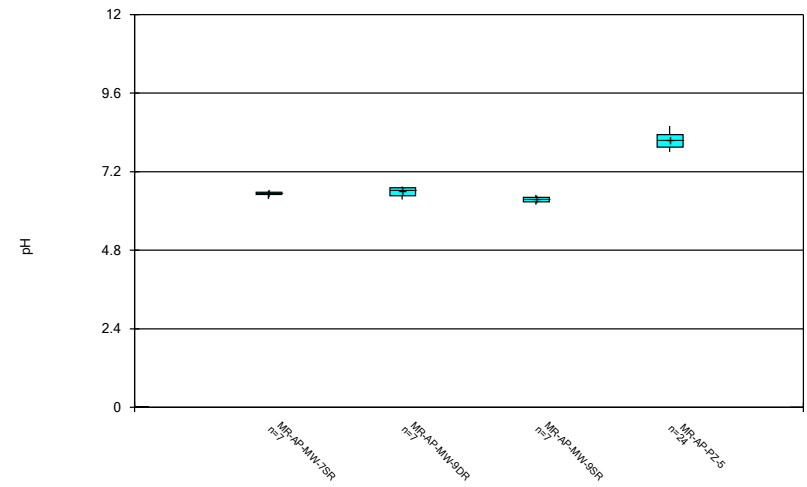
Constituent: pH, Field Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



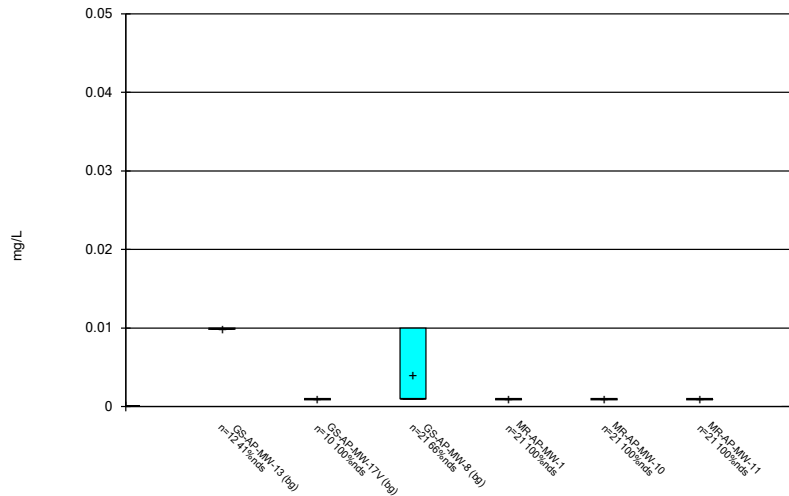
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



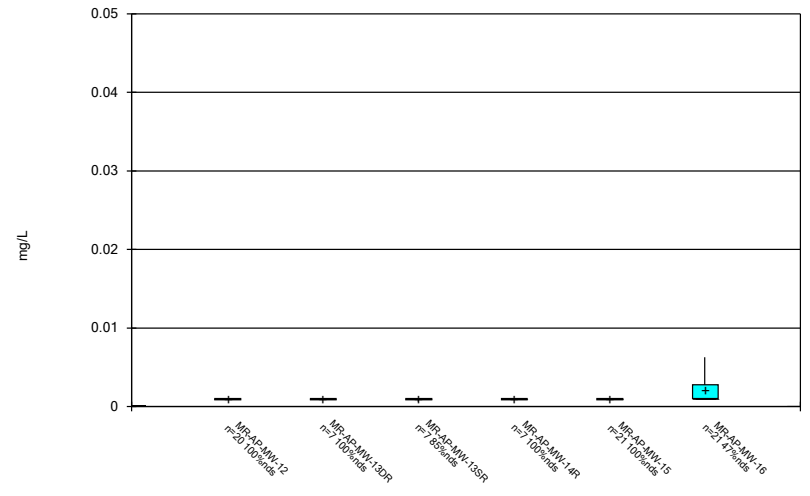
Constituent: pH, Field Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



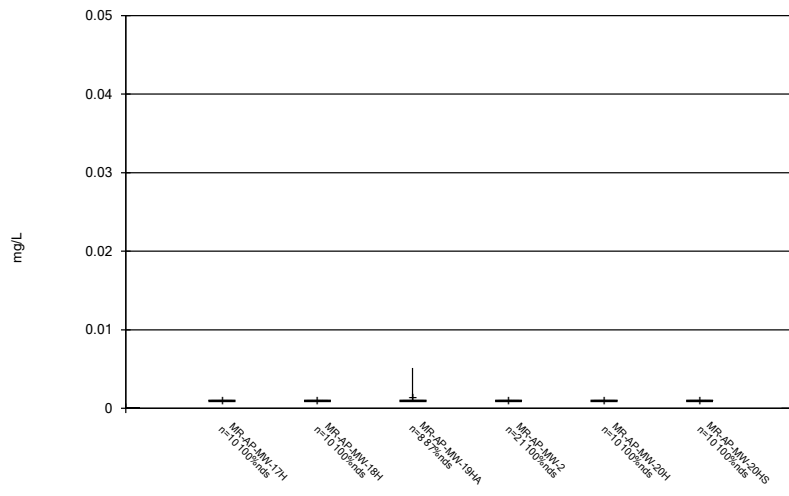
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



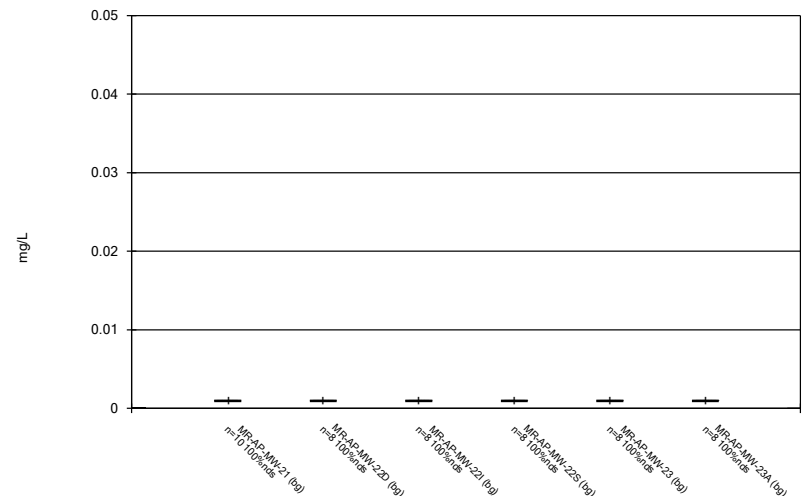
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



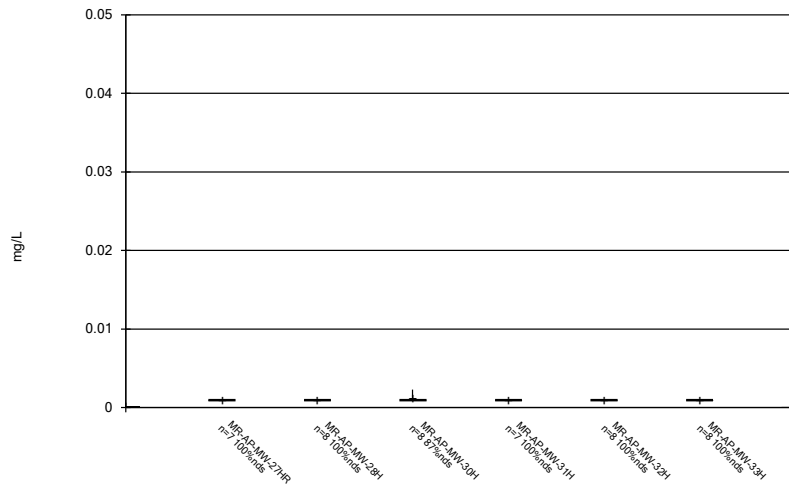
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



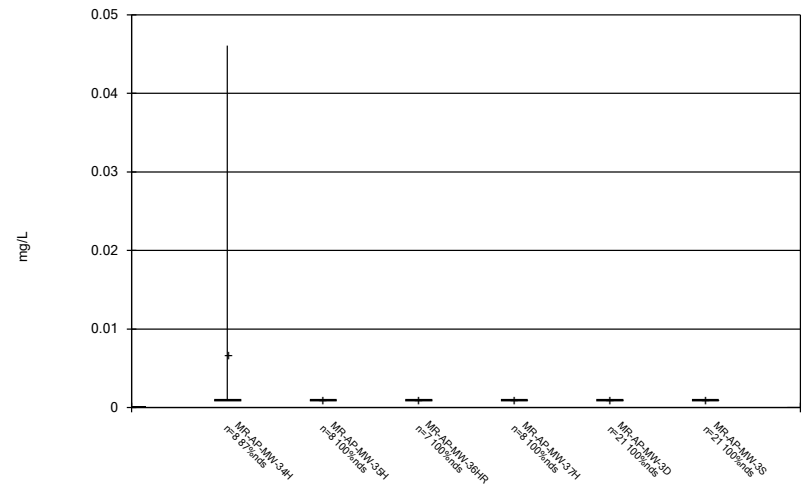
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



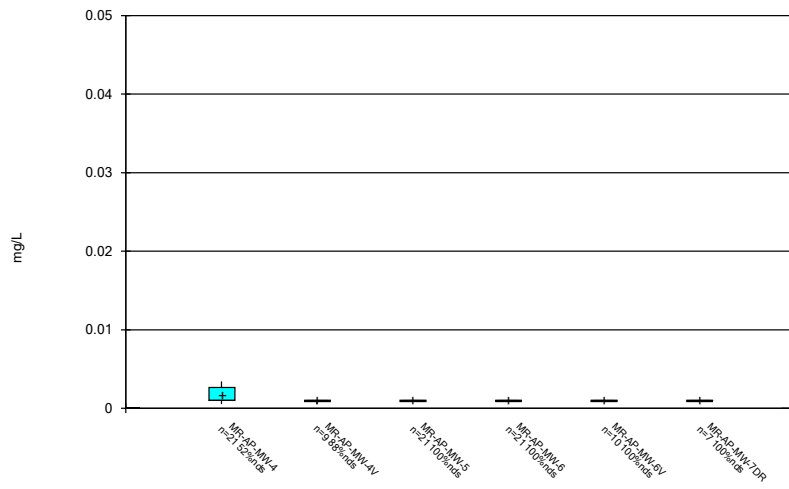
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



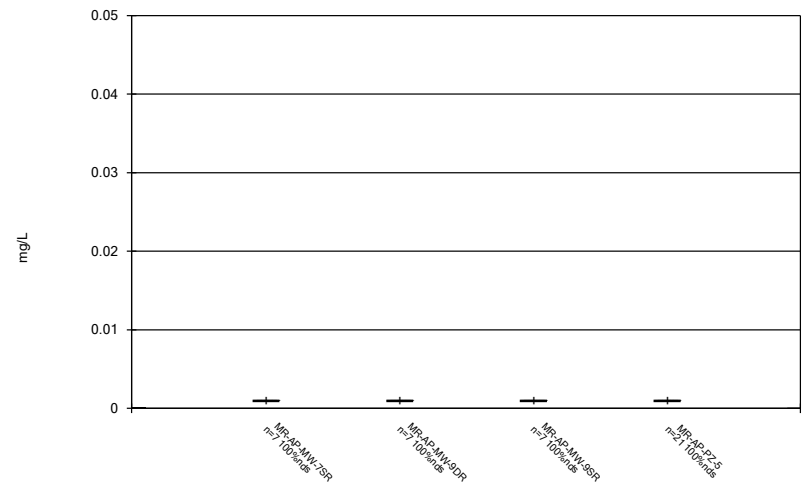
Constituent: Selenium Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



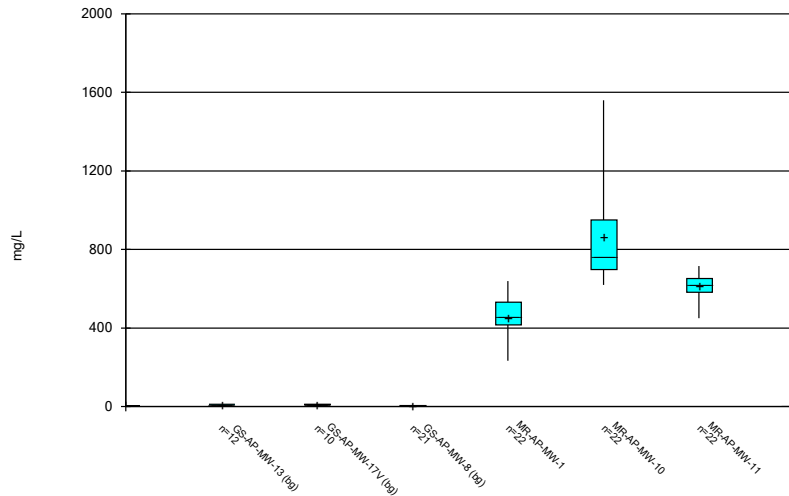
Constituent: Selenium Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



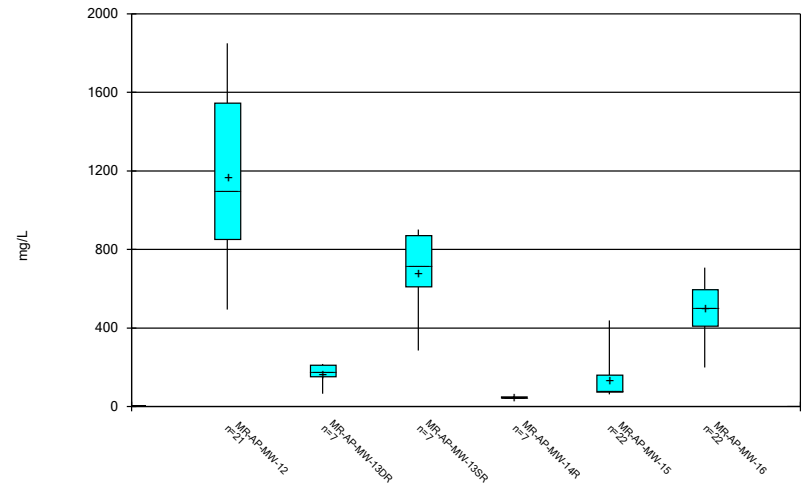
Constituent: Selenium Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



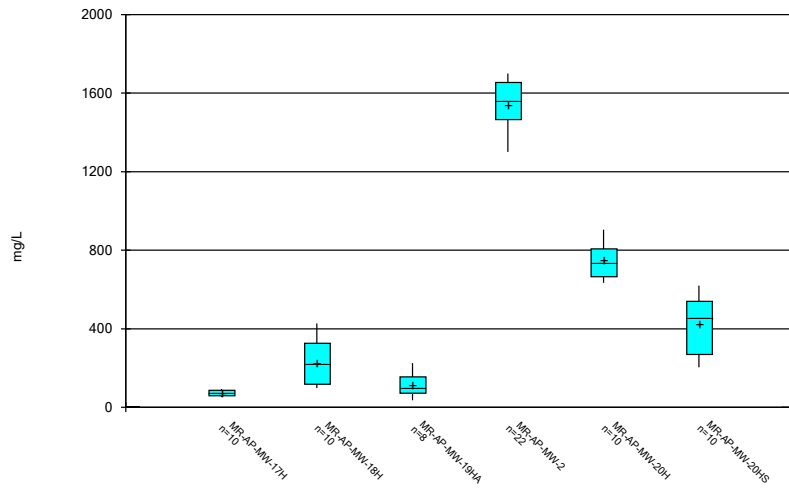
Constituent: Sulfate as SO4 Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



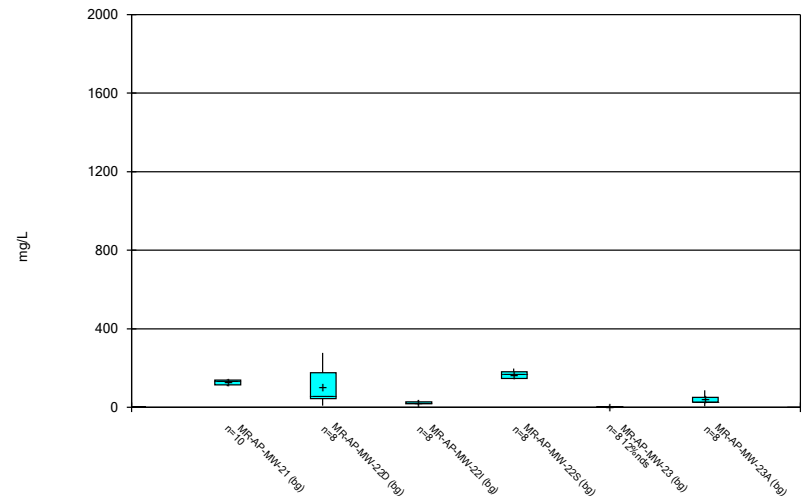
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



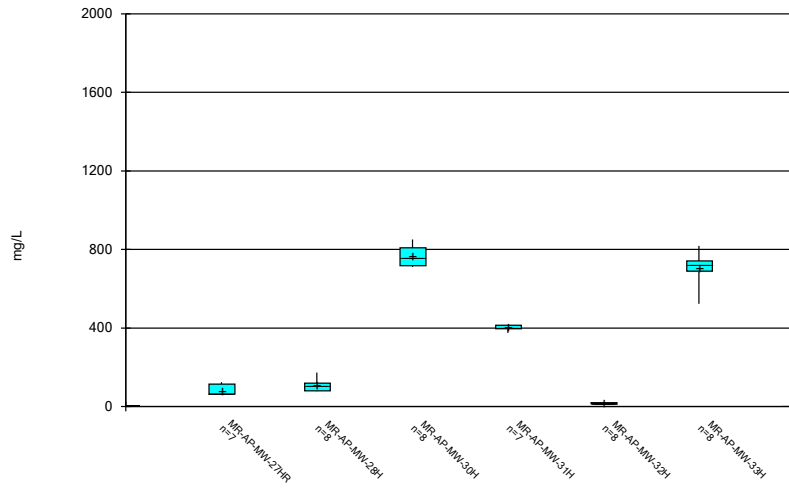
Constituent: Sulfate as SO4 Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



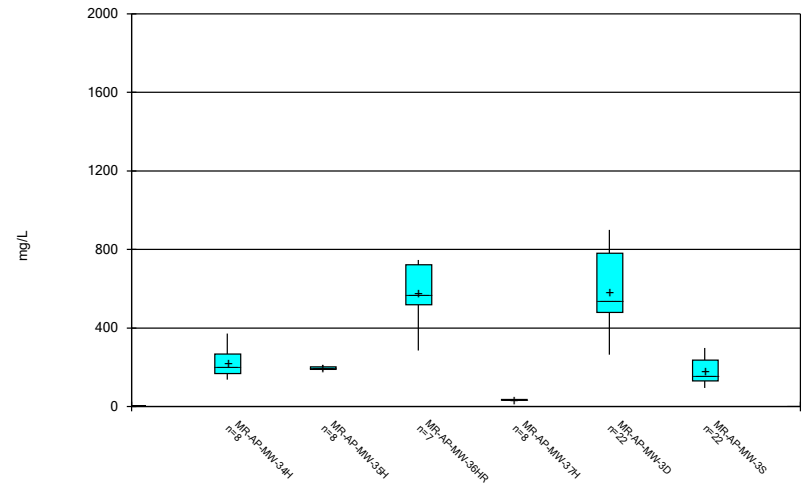
Constituent: Sulfate as SO4 Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



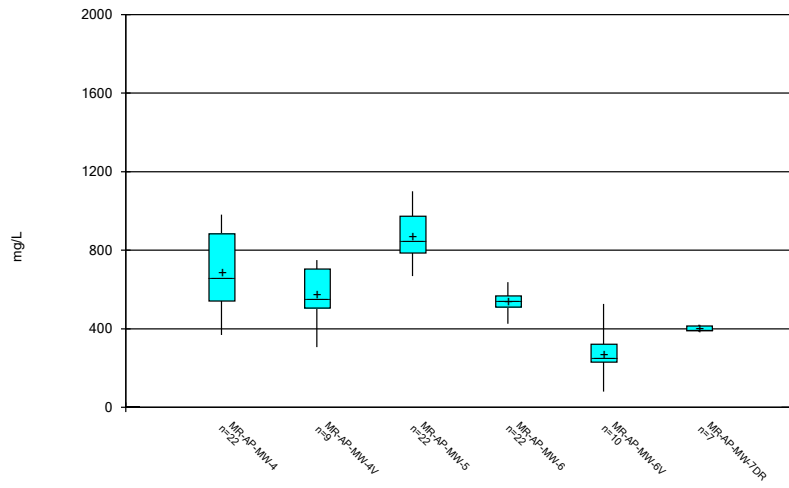
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



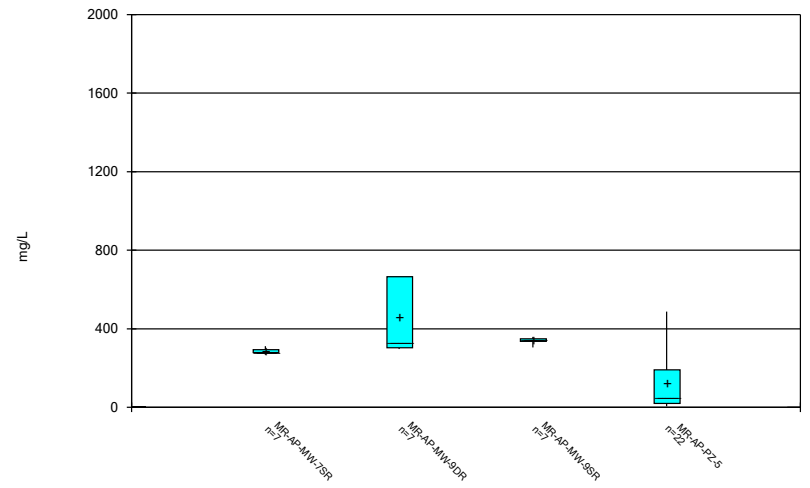
Constituent: Sulfate as SO4 Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



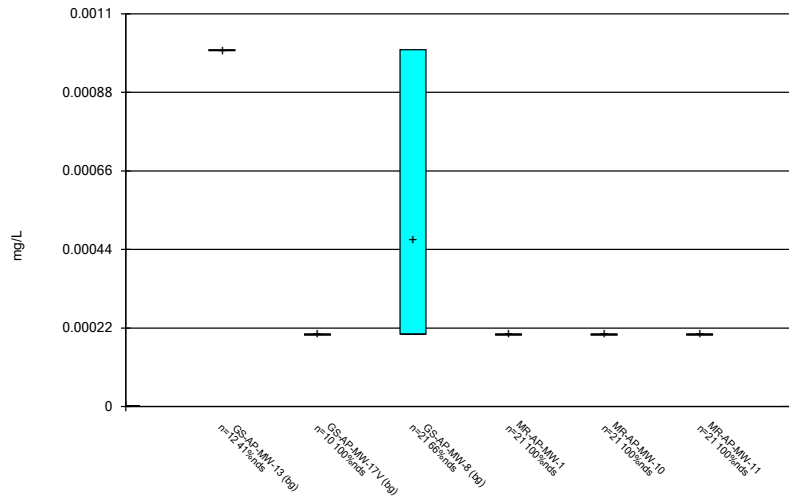
Constituent: Sulfate as SO4 Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



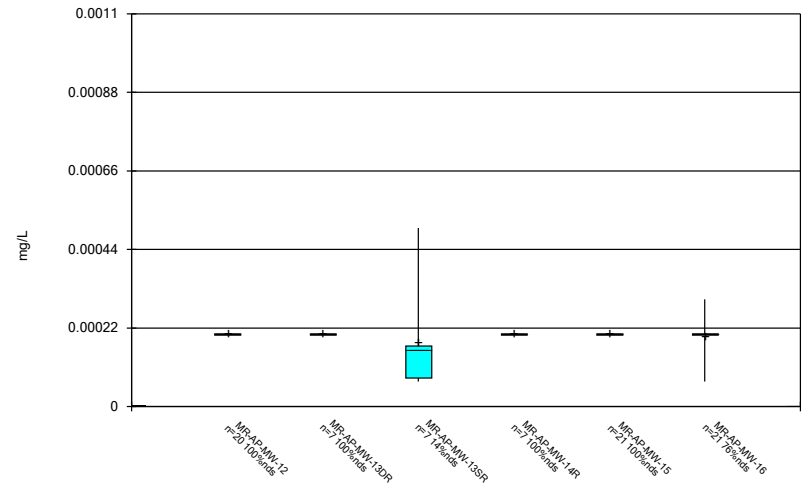
Constituent: Sulfate as SO4 Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



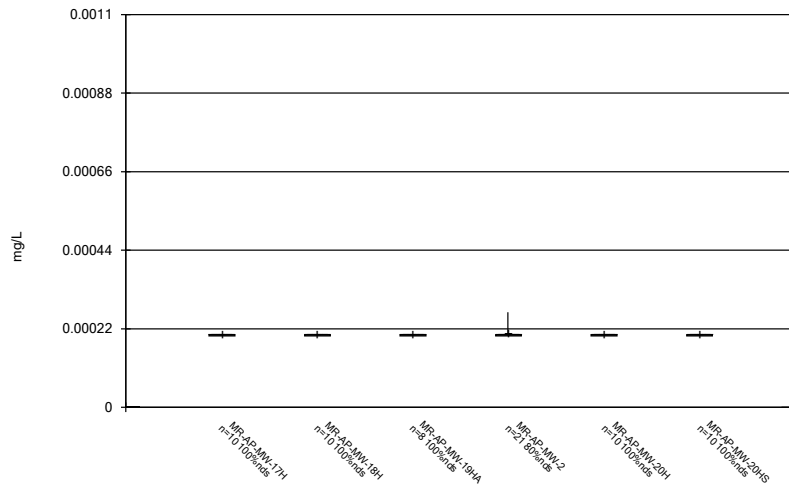
Constituent: Thallium Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



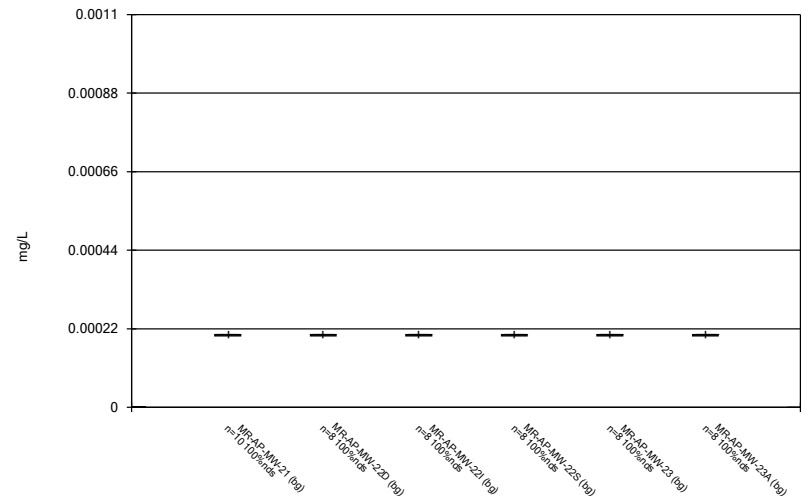
Constituent: Thallium Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



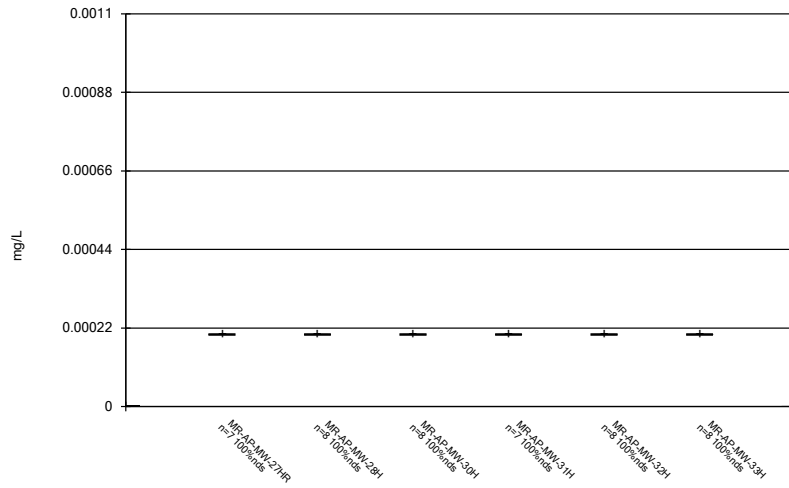
Constituent: Thallium Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



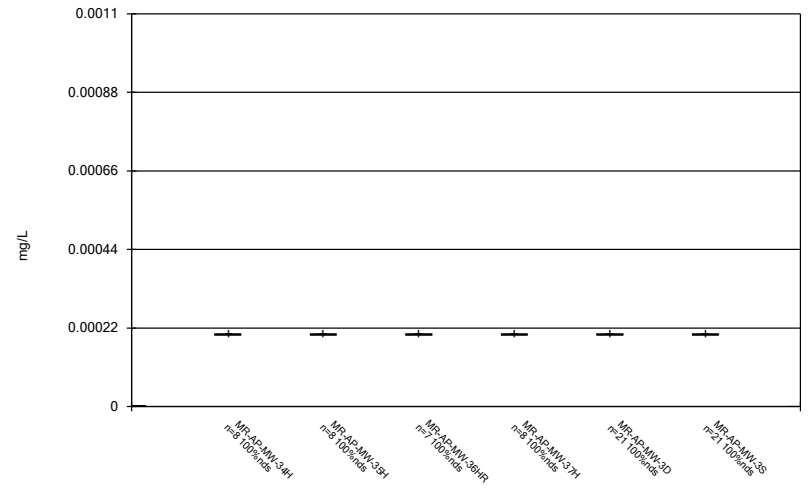
Constituent: Thallium Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



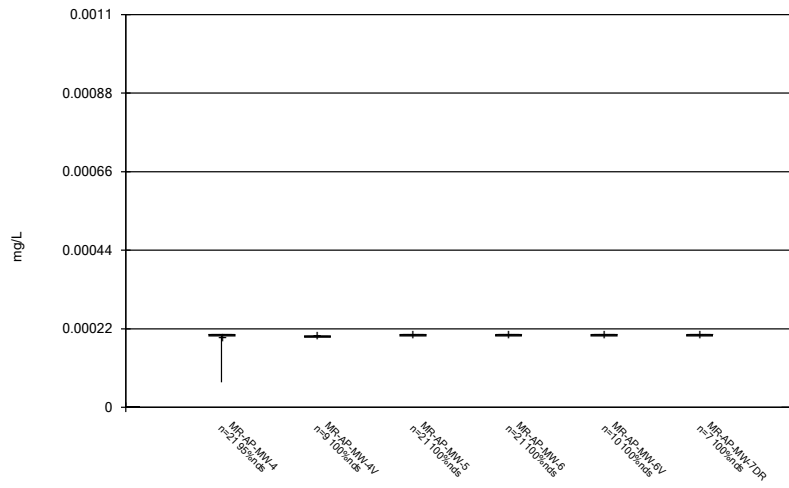
Constituent: Thallium Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



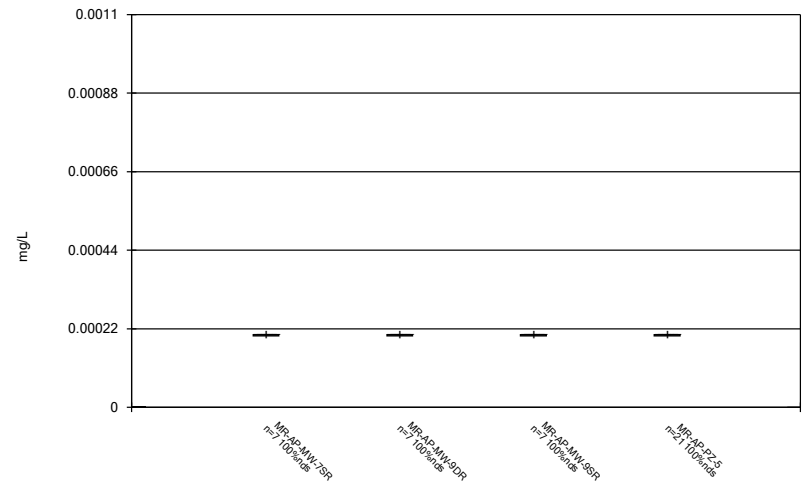
Constituent: Thallium Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



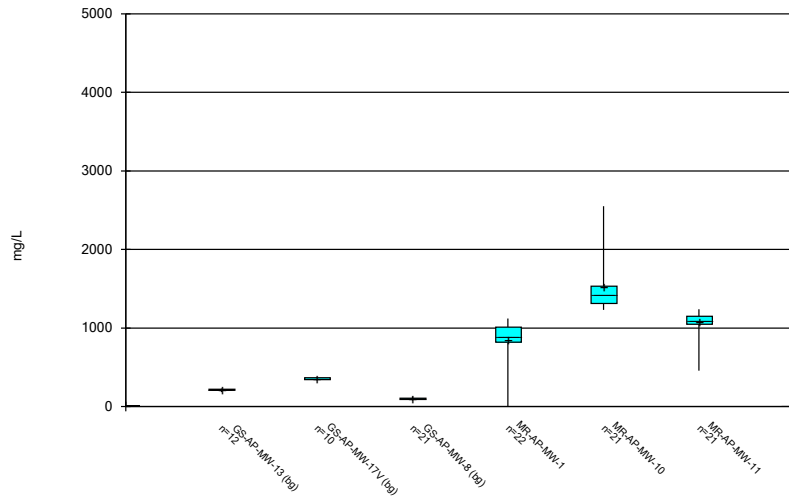
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Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



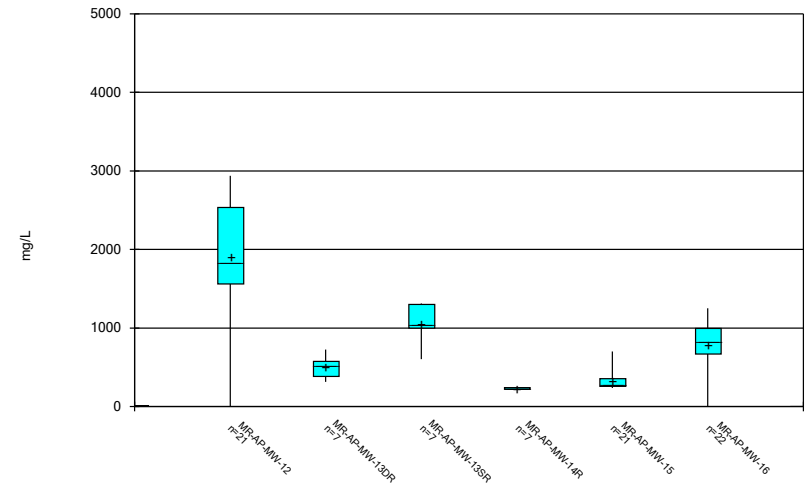
Constituent: Thallium Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



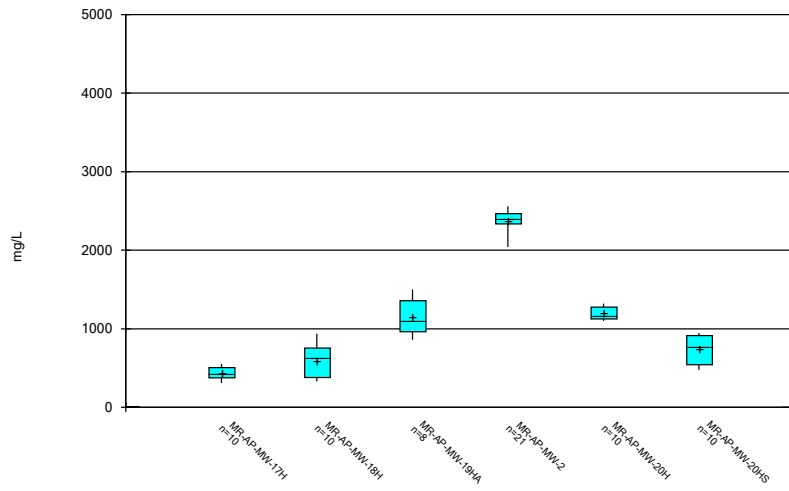
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



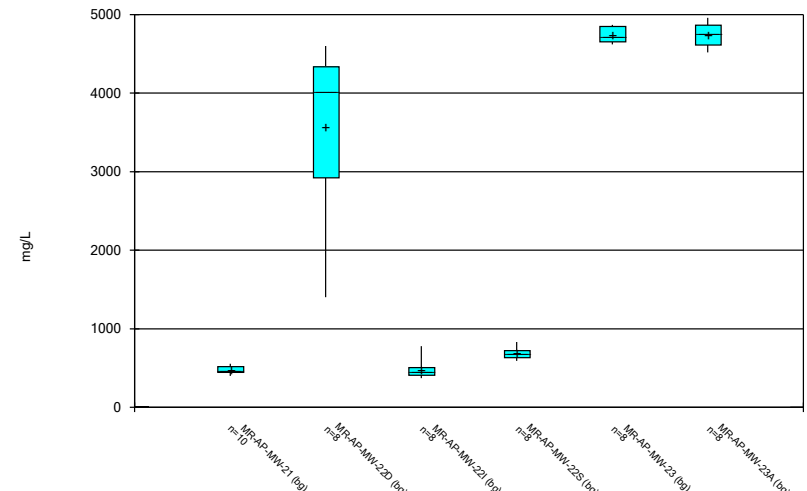
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



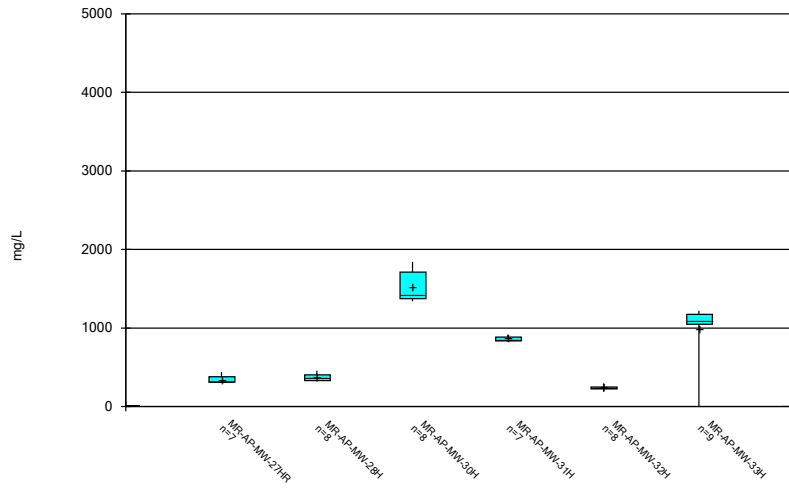
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



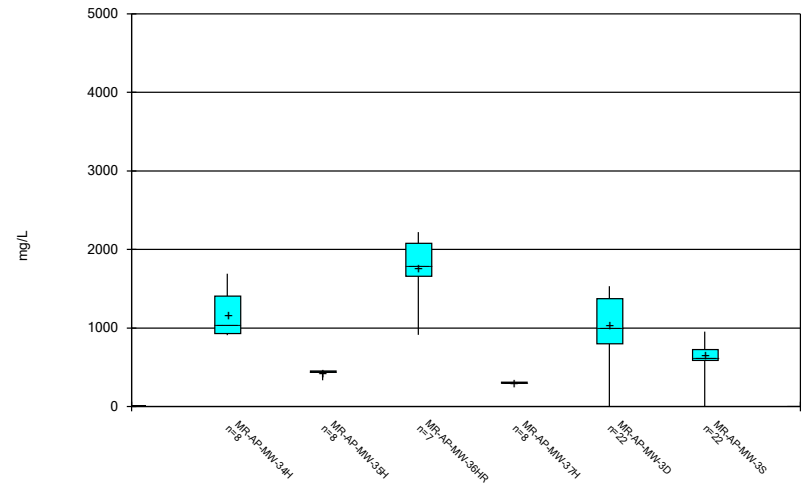
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



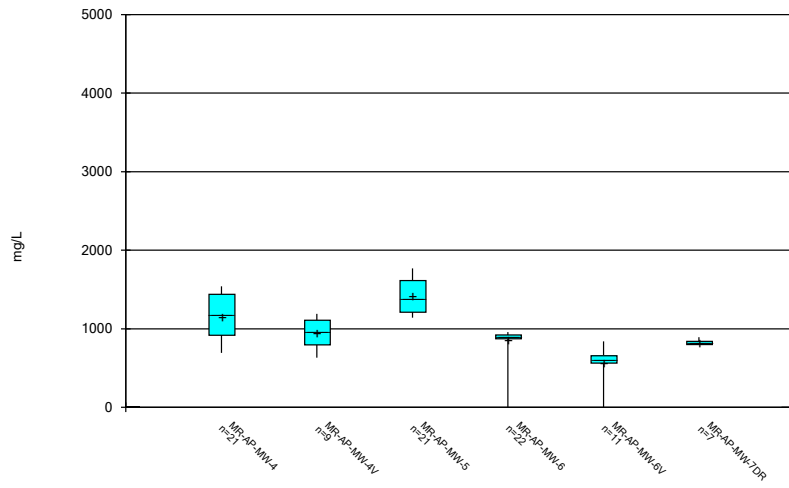
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



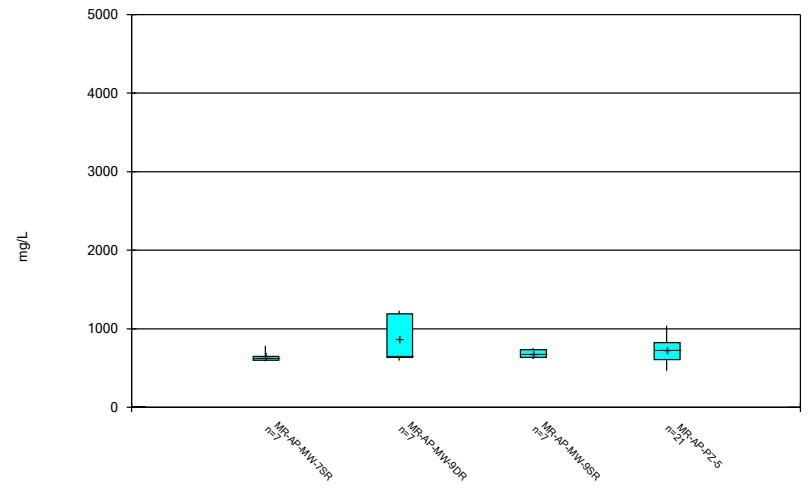
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/22/2023 11:35 AM
Plant Miller Data: Miller Ash Pond

FIGURE C.

Outlier Summary

Plant Miller Data: Miller Ash Pond Printed 12/22/2023, 11:40 AM

MR-AP-MW-1 pH, Field (pH)

5/1/2019	11.01 (o)
3/9/2020	11.95 (o)
10/19/2020	11.44 (o)

7XNH\ V 2XWOLHU 7HVW 6LJQLILFDQW 5

3ODQW 0LOOHU 'DWD 0LOOHU \$VK 3RQG 3ULQWHG 30

&RQVWLWXHQW

:HOO

2XWOLHU V

0HWKRSOSKD 0HDQ 6WG 'HYLVWULFDQW 7HVW

pH, Field (pH)

GS-AP-MW-8 (bg)

Yes 5.27,5.02

NP NaN 21 5.736 0.2154 normal ShapiroWilk

pH, Field (pH)

MR-AP-MW-1

Yes 11.01,11.95,11.44

NP NaN 23 8.919 1.131 normal ShapiroWilk

7XNH\ V 2XWOLHU 7HVW

\$OO 5HVXOW

3ODQW 0LOOHU 'DWD 0LOOHU \$VK 3RQG 3ULQWHG 30

&RQVWLWXHQW

:HOO

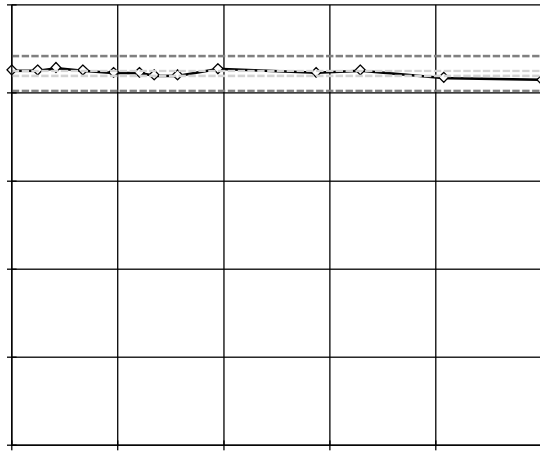
2XWOLHU V

0HWKR, SSKD 0HDQ 6WG 'HYLVWUL, QRUPDO LW\ 7HVW

	*6 \$3 0:	EJ	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	*6 \$3 0:	EJ	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	*6 \$3 0:	9 EJ	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
pH, Field (pH)	GS-AP-MW-8 (bg)	Yes	5.27,5.02		NP	NaN	21	5.736	0.2154	normal	ShapiroWilk
pH, Field (pH)	MR-AP-MW-1	Yes	11.01,11.95,11.44		NP	NaN	23	8.919	1.131	normal	ShapiroWilk
S+)LHOG S+	05 \$3 0:		1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:		1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:		1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	'5	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	65	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	5	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:		1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:		1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:		1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	EJ	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	' EJ	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	, EJ	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	6 EJ	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	EJ	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	\$ EJ	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	'	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	6	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:		1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:		1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:		1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	'5	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	65	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	'5	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 0:	65	1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			
S+)LHOG S+	05 \$3 3=		1R	Q D	13	1D1	QRUPDO	6KDSLUR: LON			

7XNH\ V 2XWOLHU 6FUHHQLQJ

GS-AP-MW-13 (bg)

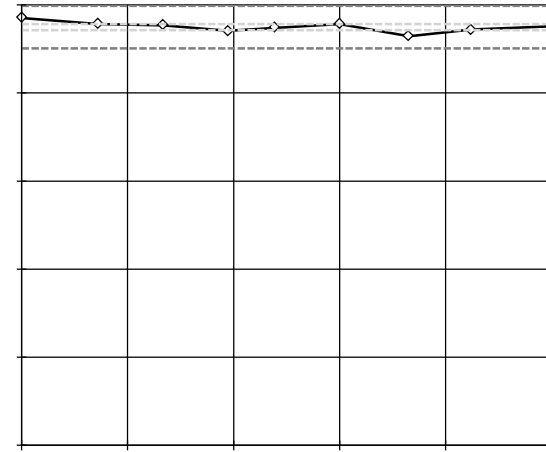


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ

GS-AP-MW-17V (bg)

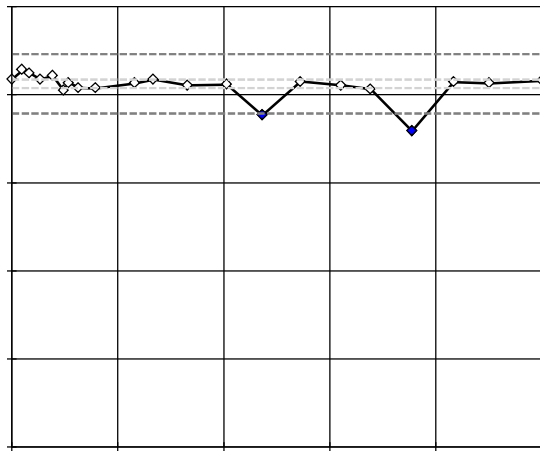


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ

GS-AP-MW-8 (bg)

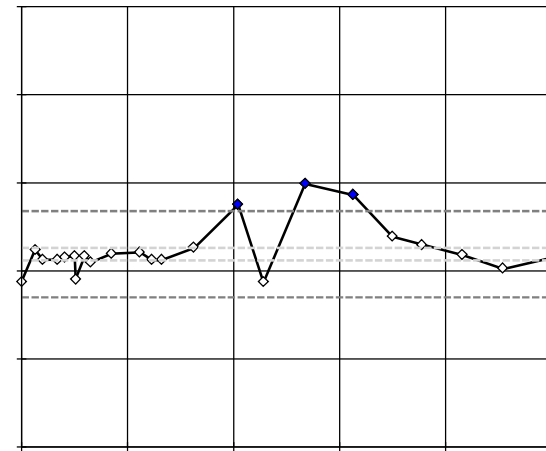


Q
 2XWOLHUV DUH GUDZQ DV
 VROLG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ

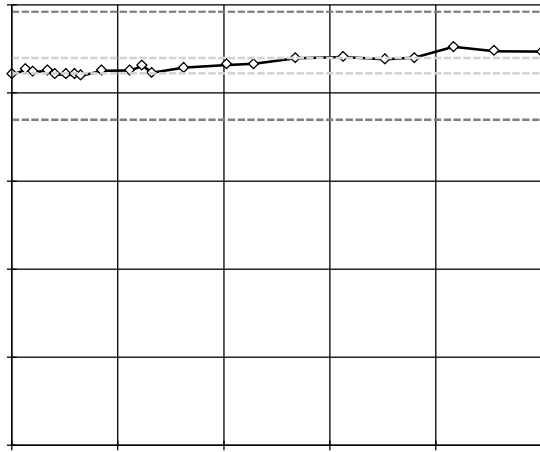
MR-AP-MW-1



Q
 2XWOLHUV DUH GUDZQ DV
 VROLG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-10

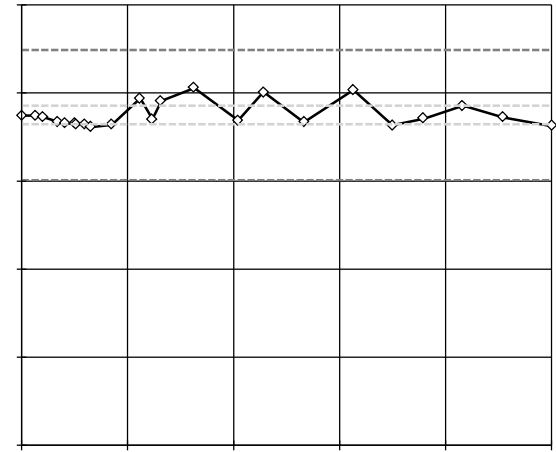


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II ORZ
 FXWR II EDVHG
 RQ ,45 PXOWLSOLHU RI

pH

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-11

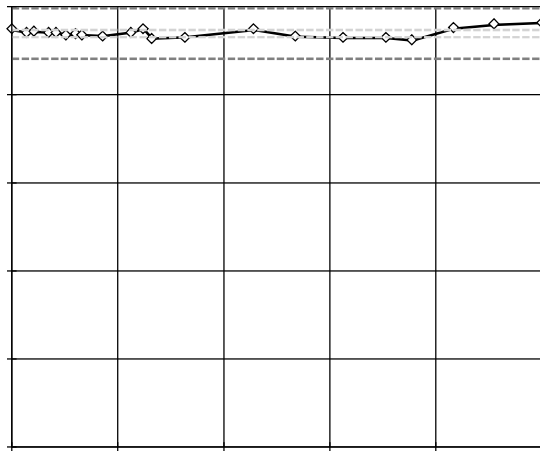


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II ORZ
 FXWR II EDVHG
 ,45 PXOWLSOLHU RI

pH

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-12

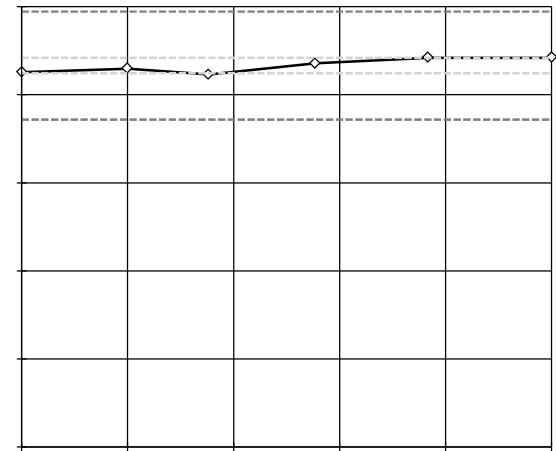


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II ORZ
 FXWR II EDVHG RQ
 ,45 PXOWLSOLHU RI

pH

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-13DR

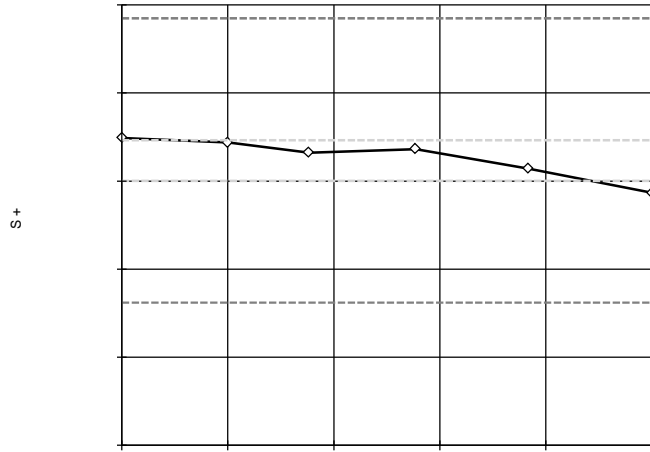


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II ORZ
 FXWR II EDVHG
 ,45 PXOWLSOLHU RI

pH

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

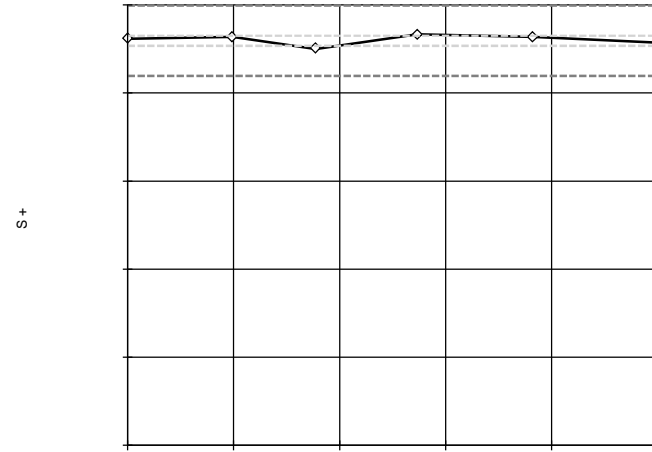
7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-13SR



Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II ORZ
 FXWR II EDVHG
 RQ ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

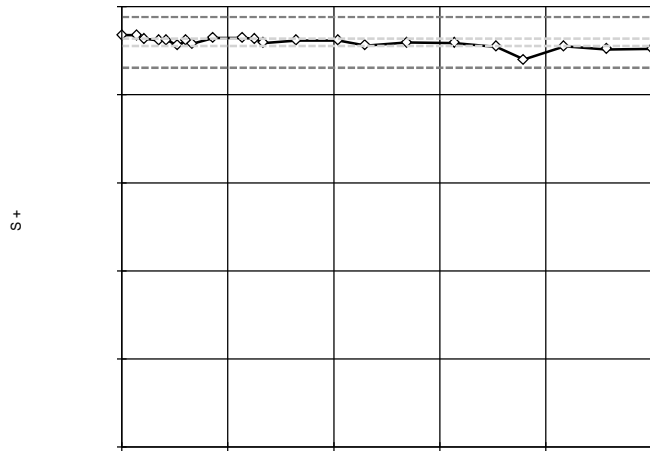
7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-14R



Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II O
 FXWR II EDVHG
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

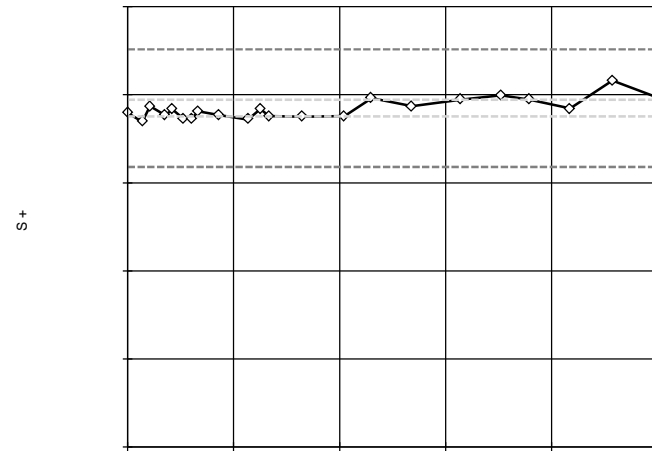
7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-15



Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II ORZ
 FXWR II EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

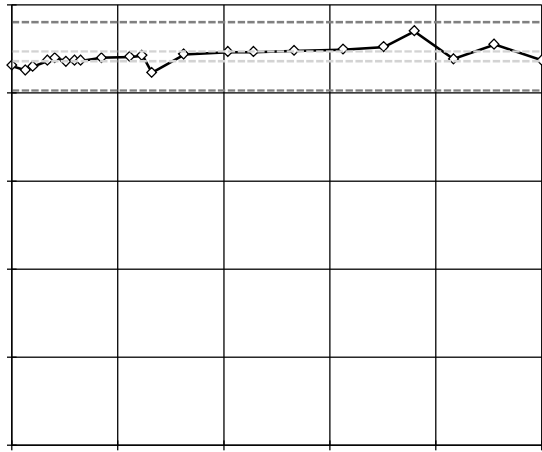
7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-16



Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II O
 FXWR II EDVHG
 ,45 PXOWLSOLHU RI

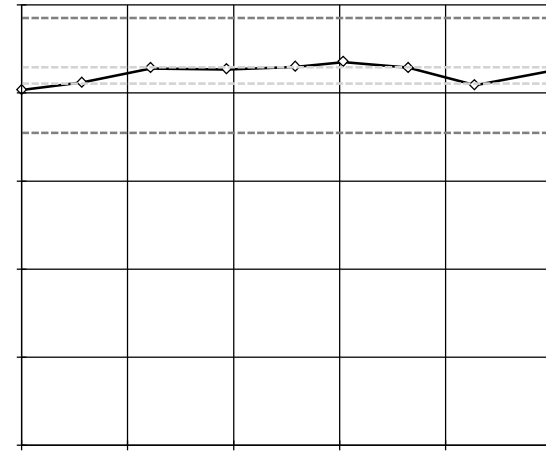
Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-2



Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG RQ
 ,45 PXOWLSOLHU RI

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-21 (bg)

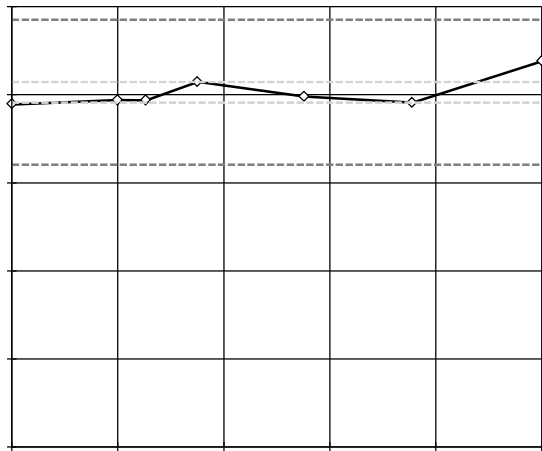


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

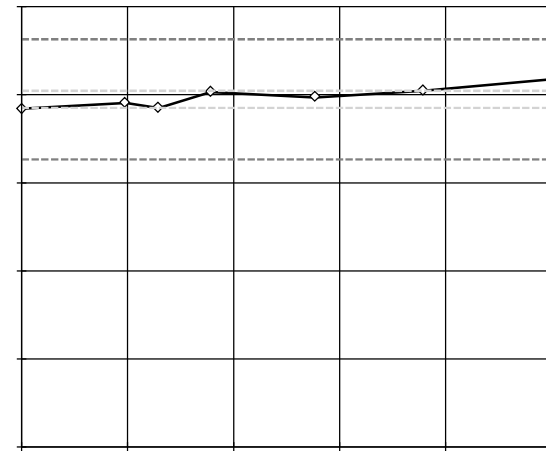
Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-22D (bg)



Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG RQ
 ,45 PXOWLSOLHU RI

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-22I (bg)

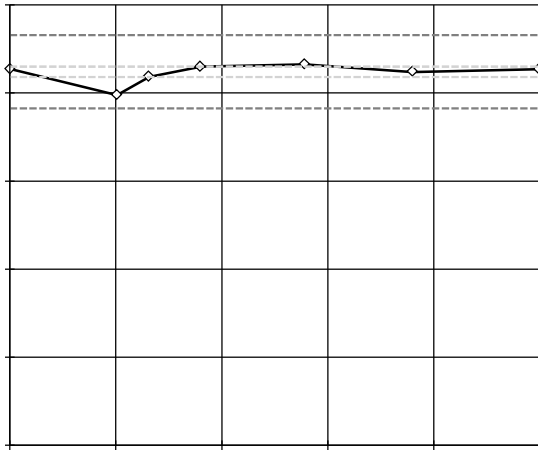


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

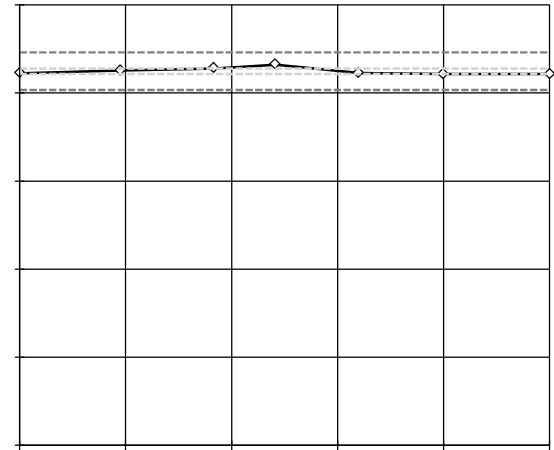
Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

MR-AP-MW-22S (bg)



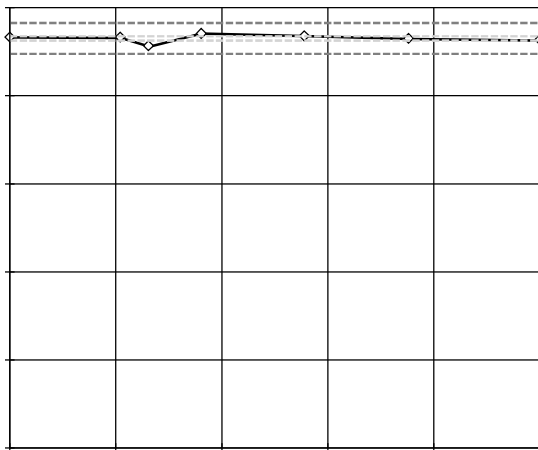
Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

MR-AP-MW-23 (bg)



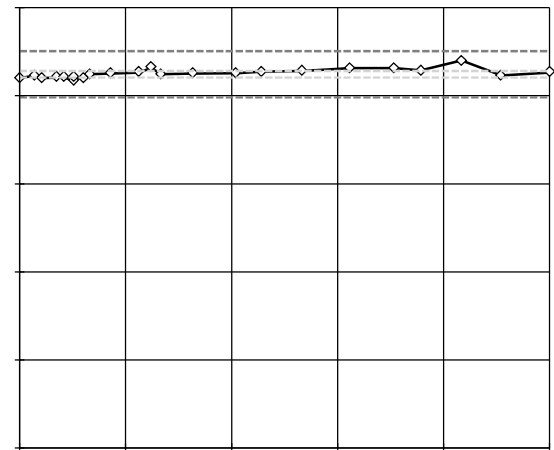
Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

MR-AP-MW-23A (bg)



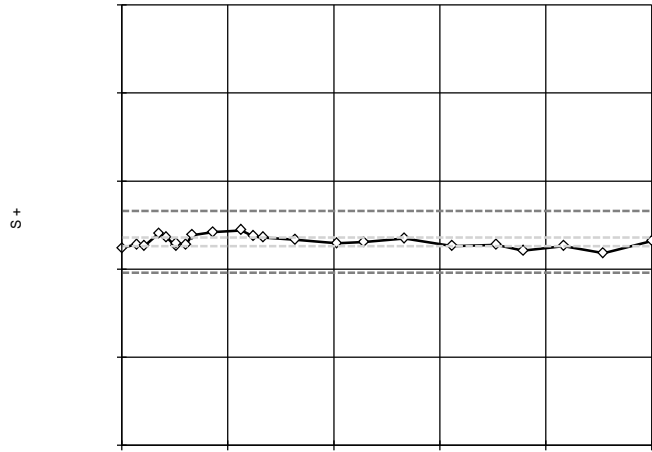
Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

MR-AP-MW-3D



Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

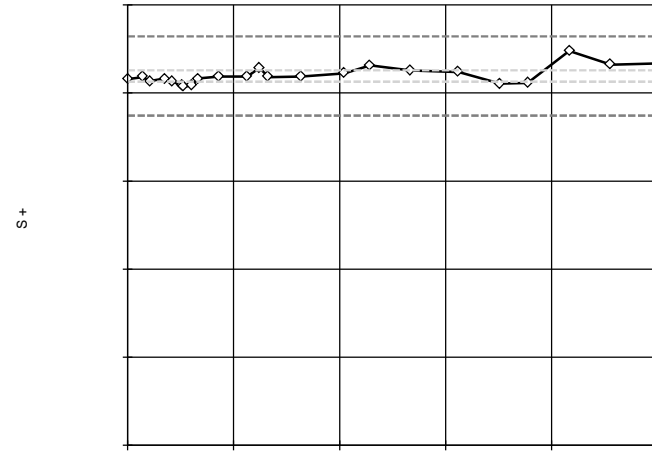
7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-3S



Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II ORZ
 FXWR II EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

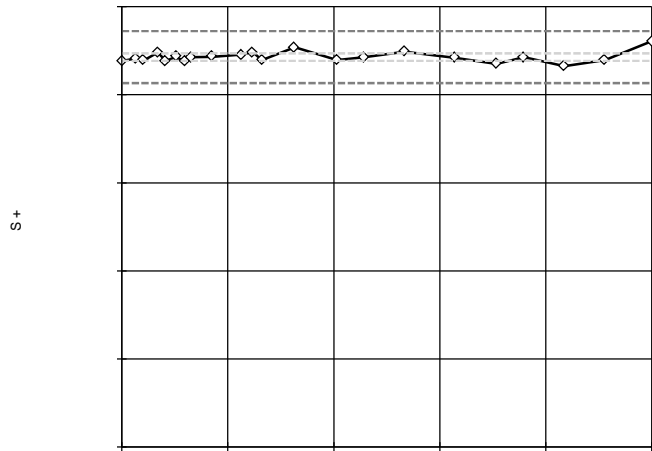
7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-4



Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II ORZ
 FXWR II EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:12 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

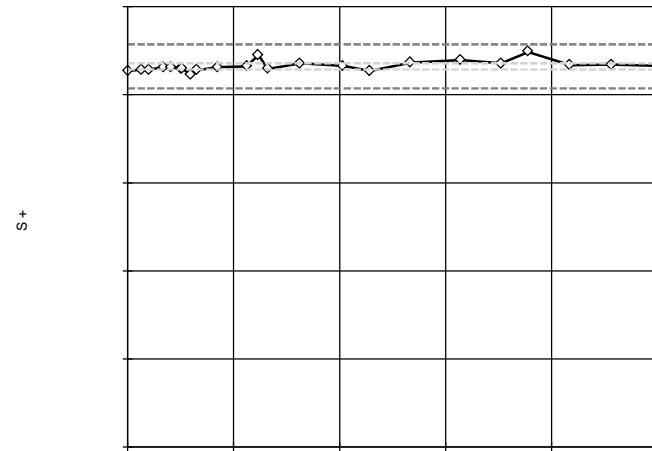
7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-5



Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II ORZ
 FXWR II EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:13 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

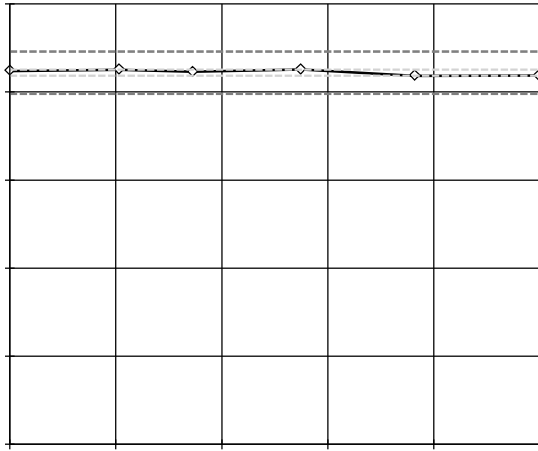
7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-6



Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKR G VHOHFW
 HG E\ XVHU
 +LJK FXWR II ORZ
 FXWR II EDVHG RQ
 ,45 PXOWLSOLHU RI

Constituent: pH, Field Analysis Run 12/5/2023 6:13 PM View: Tukey's Outlier Test - pH
 Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-7DR

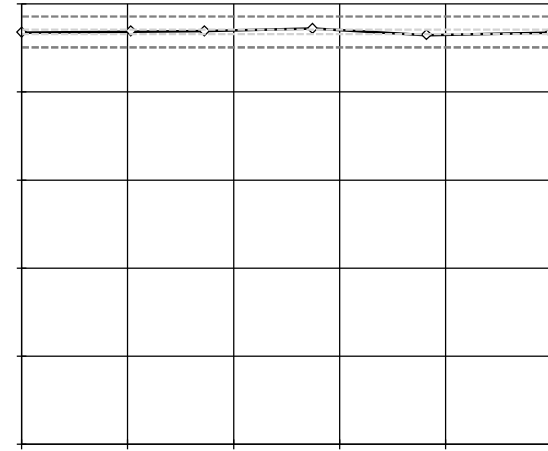


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG
 RQ ,45 PXOWLSOLHU RI

pH

Constituent: pH, Field Analysis Run 12/5/2023 6:13 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-7SR

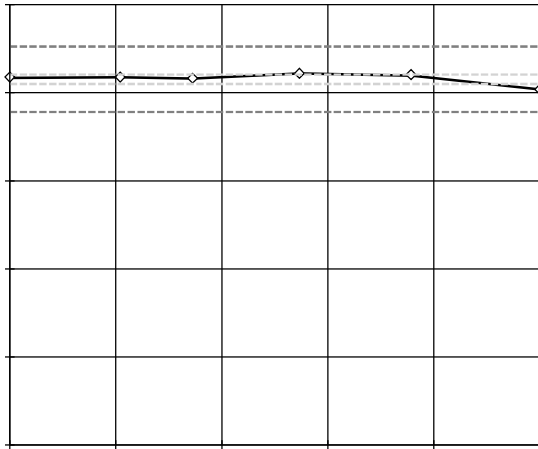


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG
 RQ ,45 PXOWLSOLHU RI

pH

Constituent: pH, Field Analysis Run 12/5/2023 6:13 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-9DR

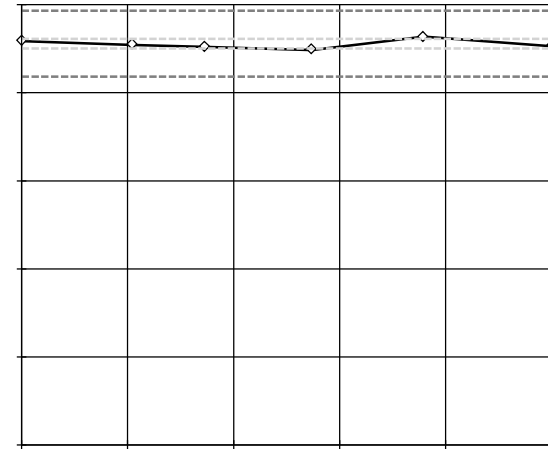


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG RQ
 ,45 PXOWLSOLHU RI

pH

Constituent: pH, Field Analysis Run 12/5/2023 6:13 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

7XNH\ V 2XWOLHU 6FUHHQLQJ
MR-AP-MW-9SR

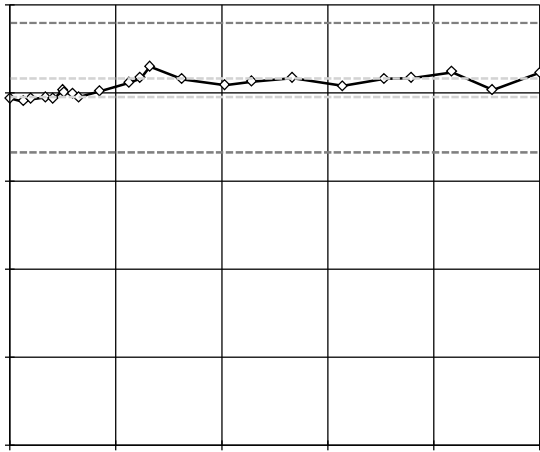


Q
 1R RXWOLHUV IRXQG
 7XNH\ V PHWKRQ VHOHFW
 HG E\ XVHU
 +LJK FXWRII ORZ
 FXWRII EDVHG RQ
 ,45 PXOWLSOLHU RI

pH

Constituent: pH, Field Analysis Run 12/5/2023 6:13 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

MR-AP-PZ-5



Constituent: pH, Field Analysis Run 12/5/2023 6:13 PM View: Tukey's Outlier Test - pH
Plant Miller Data: Miller Ash Pond

Tukey's Outlier Test - Upgradient Wells - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/15/2023, 1:41 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	GS-AP-MW-13,GS-AP...	Yes	4.33,2.59,2.96,4.49,2.95,11,12.4,12.4,11.9,12.2,1	NP	NaN	93	1.867	3.672	normal	ShapiroWilk
Boron, total (mg/L)	GS-AP-MW-13,GS-AP...	Yes	0.756,0.762,0.765,0.736,0.709,0.714,0.726,0.695,0	NP	NaN	93	0.2002	0.2325	normal	ShapiroWilk
Chloride, Total (mg/L)	GS-AP-MW-13,GS-AP...	Yes	2780,2940,2800	NP	NaN	93	645.6	1085	normal	ShapiroWilk
Chromium (mg/L)	GS-AP-MW-13,GS-AP...	Yes	0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01	NP	NaN	93	0.001975	0.003161	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	GS-AP-MW-13,GS-AP...	Yes	7.76,4.4,4.78,6.25,7.07,6.96,6.2,7.55,7.14,4.46	NP	NaN	93	1.314	1.875	normal	ShapiroWilk
Lithium (mg/L)	GS-AP-MW-13,GS-AP...	Yes	1.18,1.18,1.2,1.13,1.16,0.911,0.87,1.3,0.838,1.17	NP	NaN	93	0.2348	0.3763	normal	ShapiroWilk
Sulfate as SO4 (mg/L)	GS-AP-MW-13,GS-AP...	Yes	277	NP	NaN	93	46.37	63.74	normal	ShapiroWilk

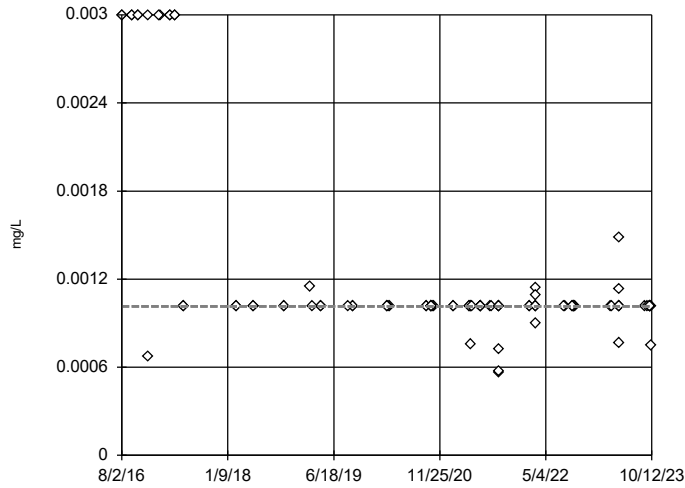
Tukey's Outlier Test - Upgradient Wells - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/15/2023, 1:41 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	GS-AP-MW-13,GS-AP...	n/a	n/a	NP	NaN	93	0.001276	0.0007069	unknown	ShapiroWilk
Arsenic (mg/L)	GS-AP-MW-13,GS-AP...	No	n/a	NP	NaN	93	0.00257	0.002082	normal	ShapiroWilk
Barium (mg/L)	GS-AP-MW-13,GS-AP...	Yes	4.33,2.59,2.96,4.49,2.95,11,12.4,12.4,11.9,12.2,1	NP	NaN	93	1.867	3.672	normal	ShapiroWilk
Beryllium (mg/L)	GS-AP-MW-13,GS-AP...	n/a	n/a	NP	NaN	93	0.001314	0.0007137	unknown	ShapiroWilk
Boron, total (mg/L)	GS-AP-MW-13,GS-AP...	Yes	0.756,0.762,0.765,0.736,0.709,0.714,0.726,0.695,0	NP	NaN	93	0.2002	0.2325	normal	ShapiroWilk
Cadmium (mg/L)	GS-AP-MW-13,GS-AP...	n/a	n/a	NP	NaN	93	0.000323	0.0002866	unknown	ShapiroWilk
Calcium, total (mg/L)	GS-AP-MW-13,GS-AP...	No	n/a	NP	NaN	93	53.02	46.48	normal	ShapiroWilk
Chloride, Total (mg/L)	GS-AP-MW-13,GS-AP...	Yes	2780,2940,2800	NP	NaN	93	645.6	1085	normal	ShapiroWilk
Chromium (mg/L)	GS-AP-MW-13,GS-AP...	Yes	0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01,0.01	NP	NaN	93	0.001975	0.003161	normal	ShapiroWilk
Cobalt (mg/L)	GS-AP-MW-13,GS-AP...	n/a	n/a	NP	NaN	93	0.0004452	0.000725	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	GS-AP-MW-13,GS-AP...	Yes	7.76,4.4,4.78,6.25,7.07,6.96,6.2,7.55,7.14,4.46	NP	NaN	93	1.314	1.875	normal	ShapiroWilk
Fluoride, total (mg/L)	GS-AP-MW-13,GS-AP...	No	n/a	NP	NaN	95	0.2092	0.1091	normal	ShapiroWilk
Lead (mg/L)	GS-AP-MW-13,GS-AP...	n/a	n/a	NP	NaN	93	0.0002177	0.0001772	unknown	ShapiroWilk
Lithium (mg/L)	GS-AP-MW-13,GS-AP...	Yes	1.18,1.18,1.2,1.13,1.16,0.911,0.87,1.3,0.838,1.17	NP	NaN	93	0.2348	0.3763	normal	ShapiroWilk
Mercury (mg/L)	GS-AP-MW-13,GS-AP...	n/a	n/a	NP	NaN	93	0.0005	8.5e-12	unknown	ShapiroWilk
Molybdenum (mg/L)	GS-AP-MW-13,GS-AP...	No	n/a	NP	NaN	93	0.007438	0.004792	normal	ShapiroWilk
Selenium (mg/L)	GS-AP-MW-13,GS-AP...	n/a	n/a	NP	NaN	93	0.002368	0.00323	unknown	ShapiroWilk
Sulfate as SO4 (mg/L)	GS-AP-MW-13,GS-AP...	Yes	277	NP	NaN	93	46.37	63.74	normal	ShapiroWilk
Thallium (mg/L)	GS-AP-MW-13,GS-AP...	n/a	n/a	NP	NaN	93	0.000323	0.0002866	unknown	ShapiroWilk
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-13,GS-AP...	No	n/a	NP	NaN	93	1362	1835	normal	ShapiroWilk

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

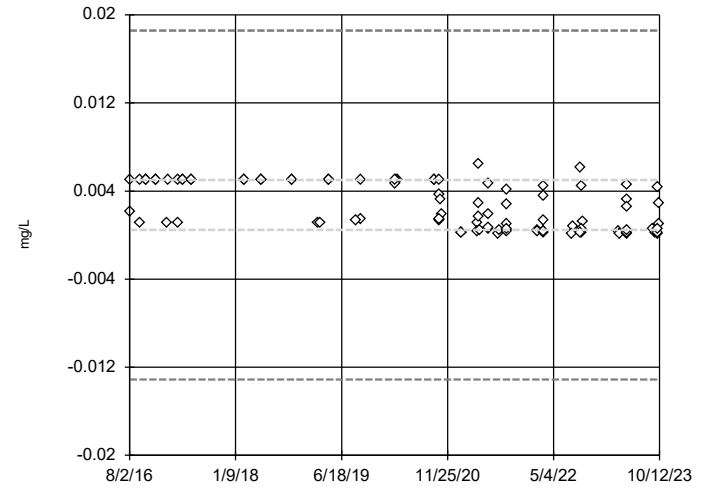


n = 93
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

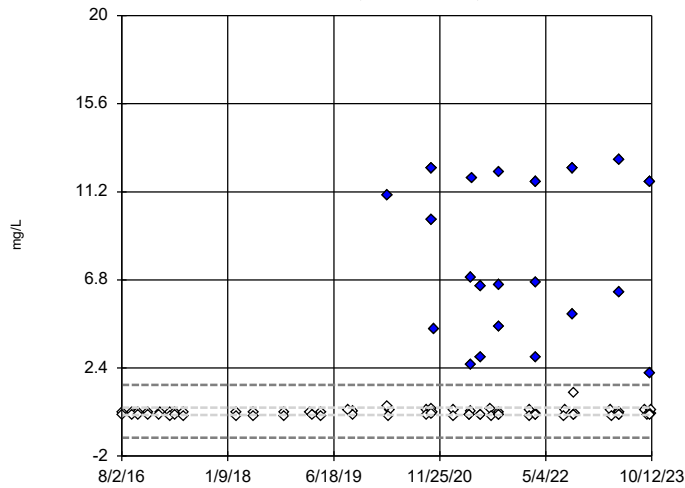


n = 93
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01858,
 low cutoff = -0.01311,
 based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

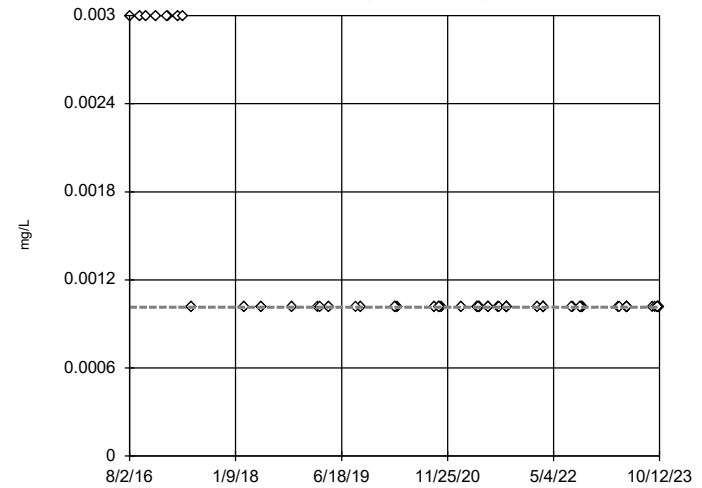


n = 93
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 1.551, low cutoff = -1.077, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

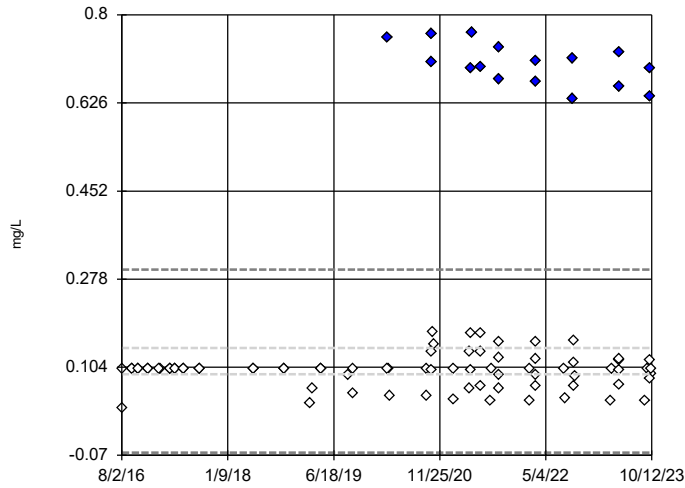


n = 93
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

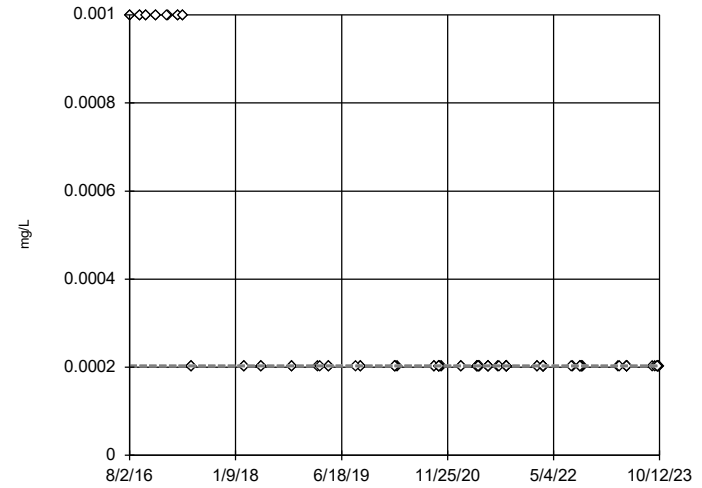


n = 93
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.297, low cutoff = -0.0646, based on IQR multiplier of 3.

Constituent: Boron, total Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

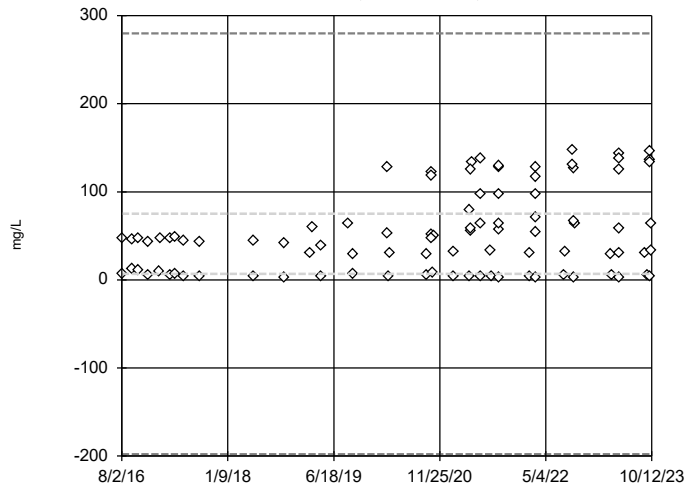


n = 93
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

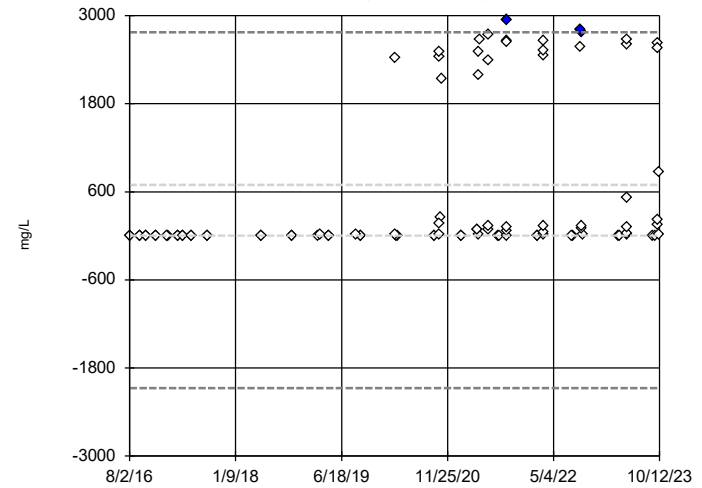


n = 93
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 279.8, low cutoff = -197.8, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Well
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

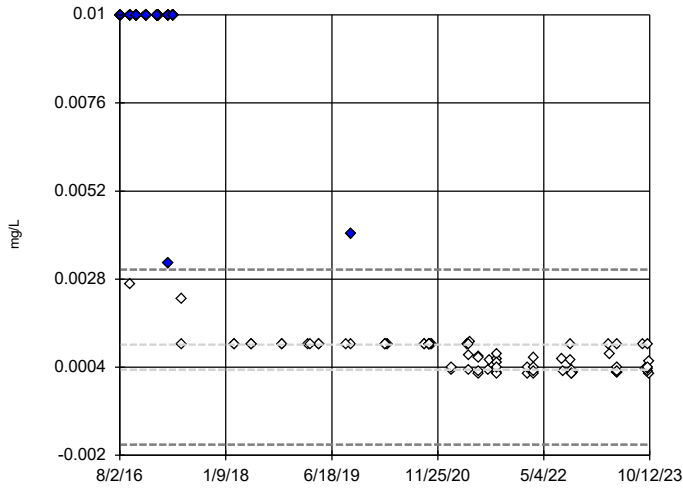


n = 93
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 2772, low cutoff = -2073, based on IQR multiplier of 3.

Constituent: Chloride, Total Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient We
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

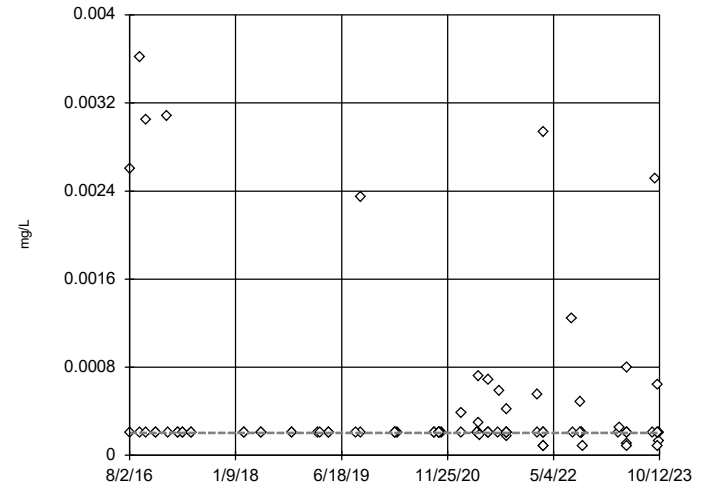


n = 93
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.003058, low cutoff = -0.001709, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

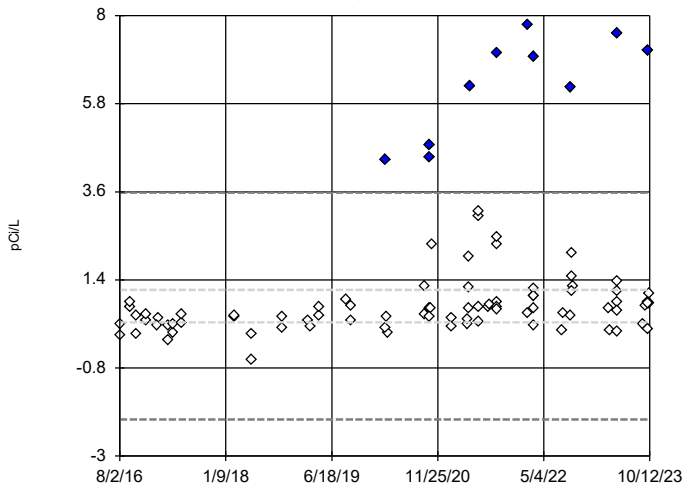


n = 93
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

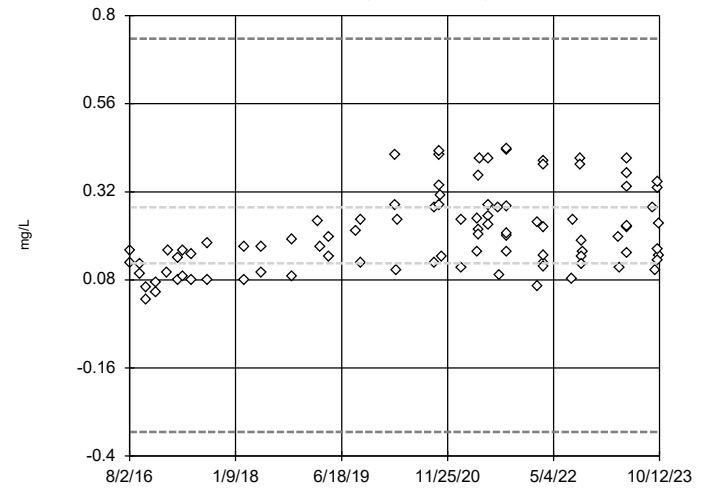


n = 93
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 3.577, low cutoff = -2.086, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test -
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

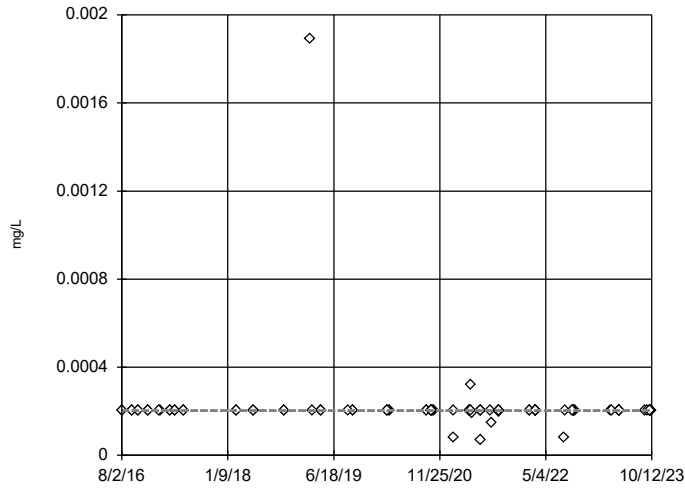


n = 95
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.737, low cutoff = -0.334, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Well
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

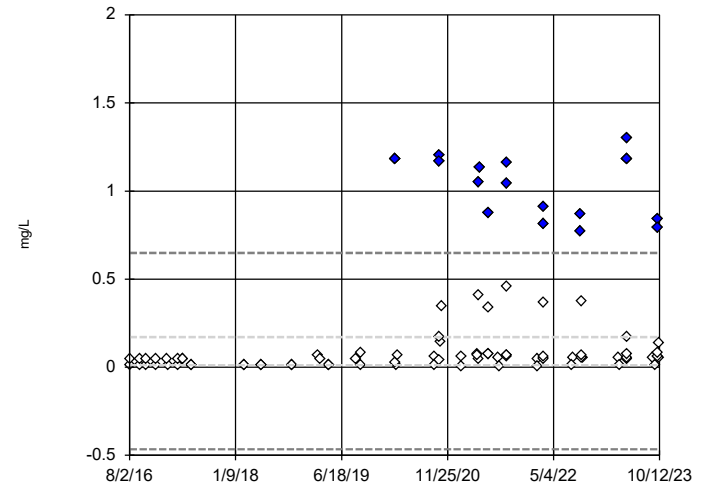


n = 93
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

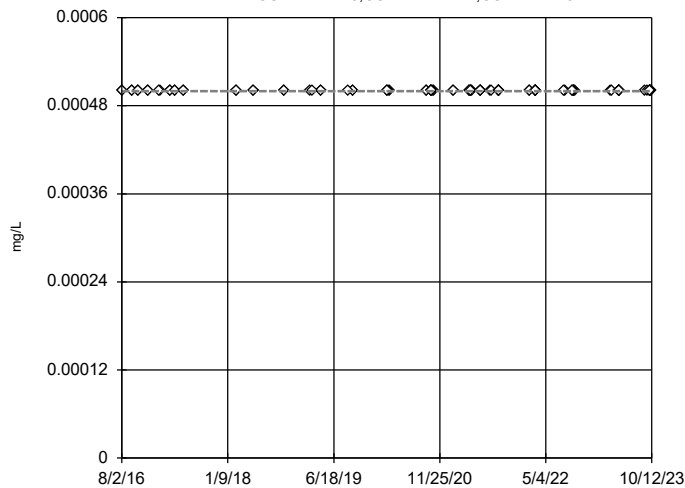


n = 93
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.6486,
 low cutoff = -0.4658,
 based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

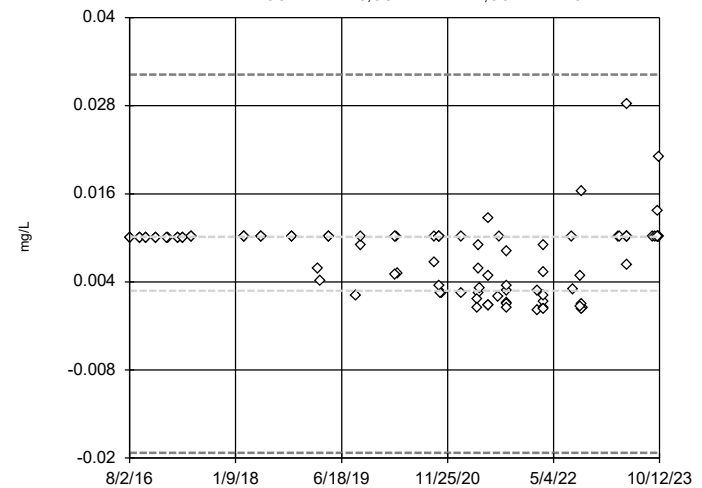


n = 93
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

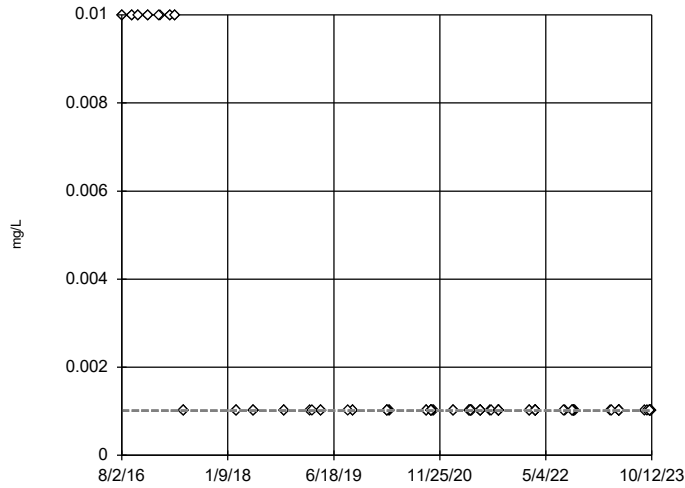


n = 93
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.03223,
 low cutoff = -0.01929,
 based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Well
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

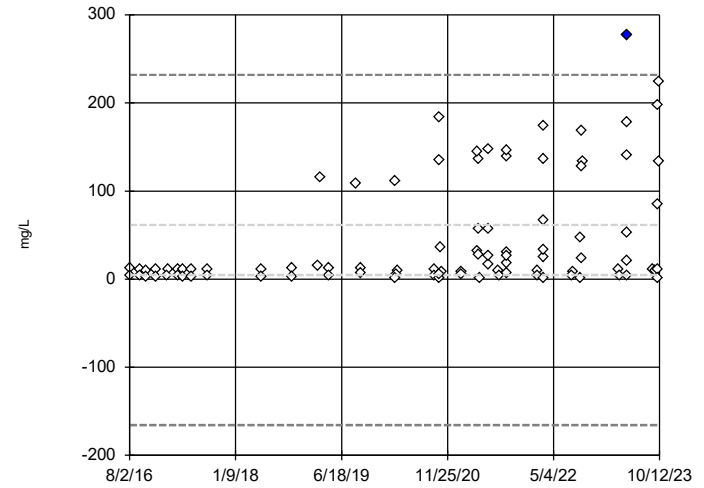


n = 93
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

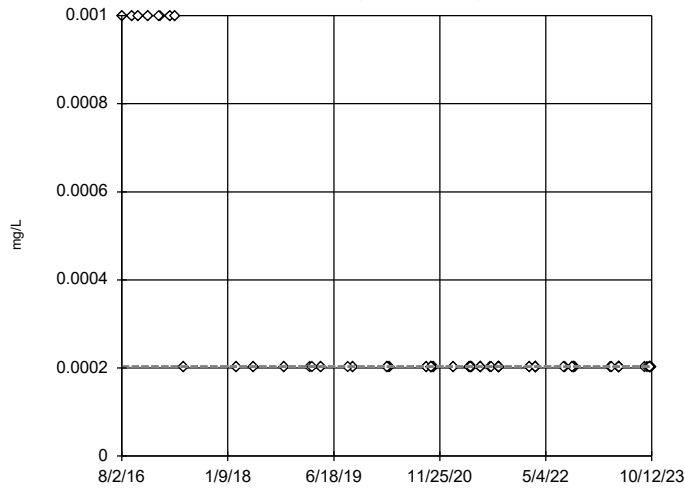


n = 93
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 231.9, low cutoff = -165.8, based on IQR multiplier of 3.

Constituent: Sulfate as SO4 Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient W
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...

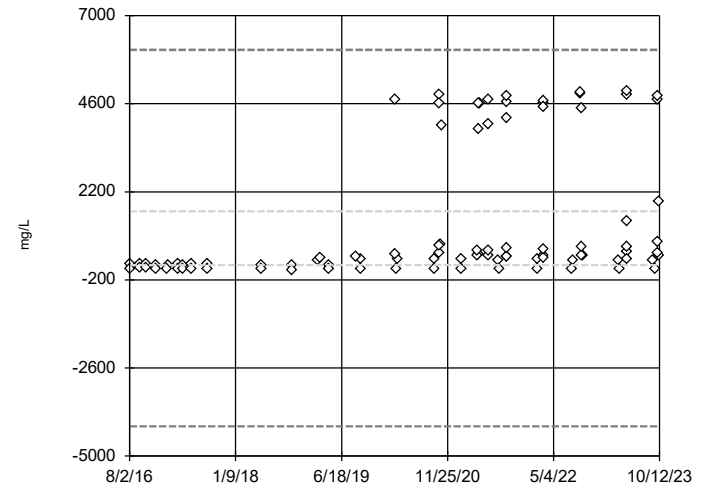


n = 93
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test - Upgradient Wells
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Tukey's Outlier Screening, Pooled Background

GS-AP-MW-13,GS-AP-MW-17V,GS-AP-MW-8...



n = 93
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 6065, low cutoff = -4190, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/15/2023 1:40 PM View: Tukey's Outlier Test -
 Plant Miller Client: Southern Company Data: Miller Ash Pond

FIGURE D.

Welch's t-test/Mann-Whitney - Significant Results

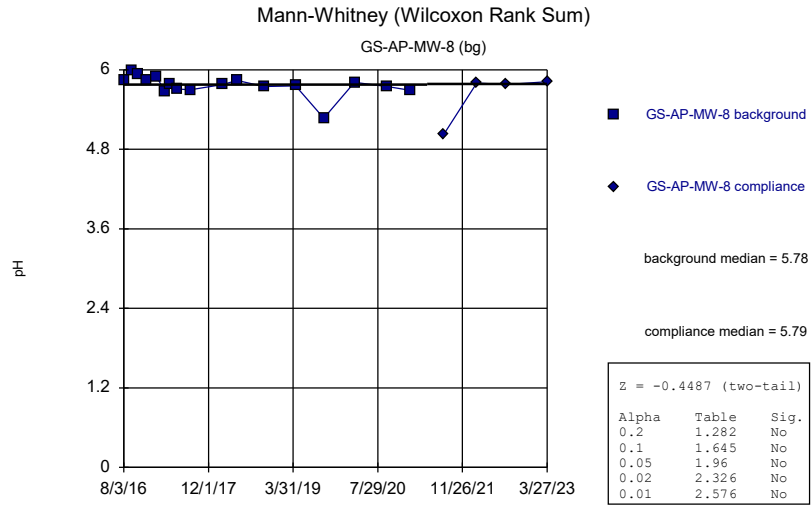
Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/21/2023, 2:59 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Alpha</u>	<u>Method</u>
pH, Field (pH)	MR-AP-MW-10	2.941	Yes	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-15	-3.035	Yes	0.01	Mann-W

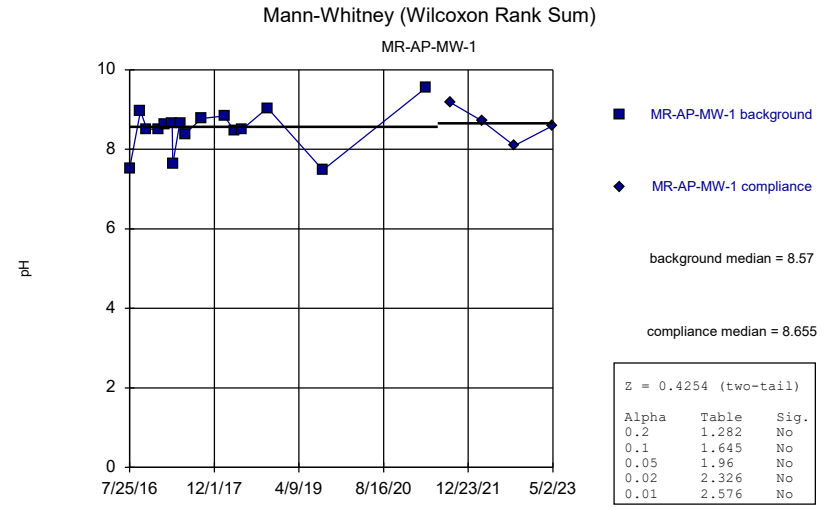
Welch's t-test/Mann-Whitney - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/21/2023, 2:59 PM

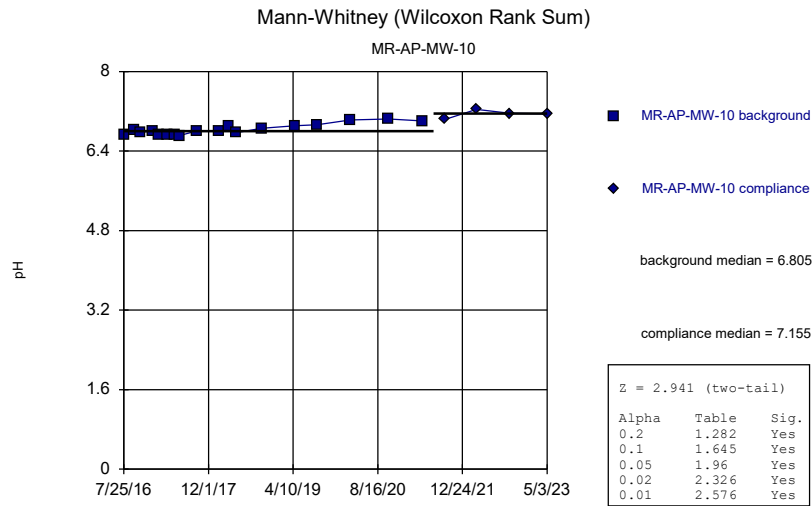
<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Alpha</u>	<u>Method</u>
pH, Field (pH)	GS-AP-MW-8 (bg)	-0.4487	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-1	0.4254	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-10	2.941	Yes	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-11	-0.1217	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-12	1.484	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-15	-3.035	Yes	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-16	2.302	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-2	1.278	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-3D	1.463	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-3S	-1.989	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-4	1.828	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-5	-0.2134	No	0.01	Mann-W
pH, Field (pH)	MR-AP-MW-6	1.788	No	0.01	Mann-W
pH, Field (pH)	MR-AP-PZ-5	2.029	No	0.01	Mann-W



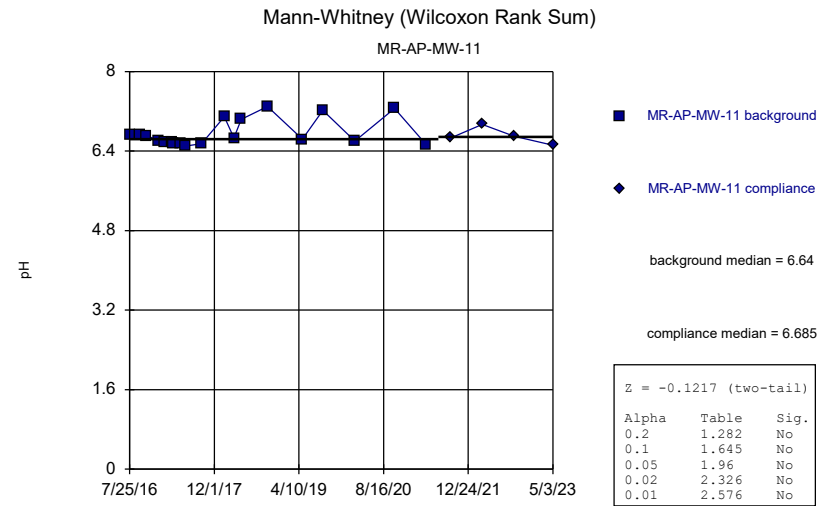
Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
Plant Miller Client: Southern Company Data: Miller Ash Pond



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
Plant Miller Client: Southern Company Data: Miller Ash Pond



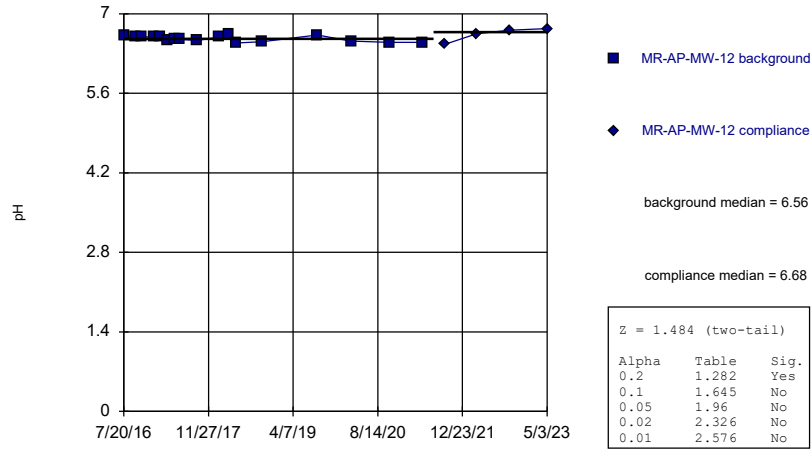
Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
Plant Miller Client: Southern Company Data: Miller Ash Pond



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

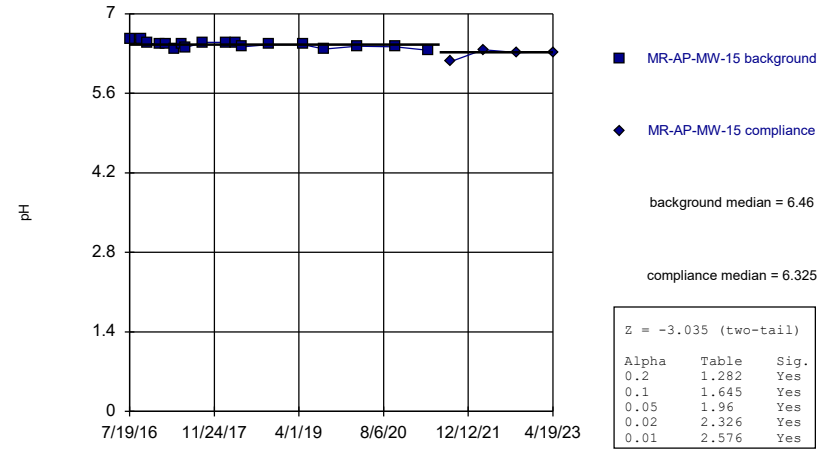
MR-AP-MW-12



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

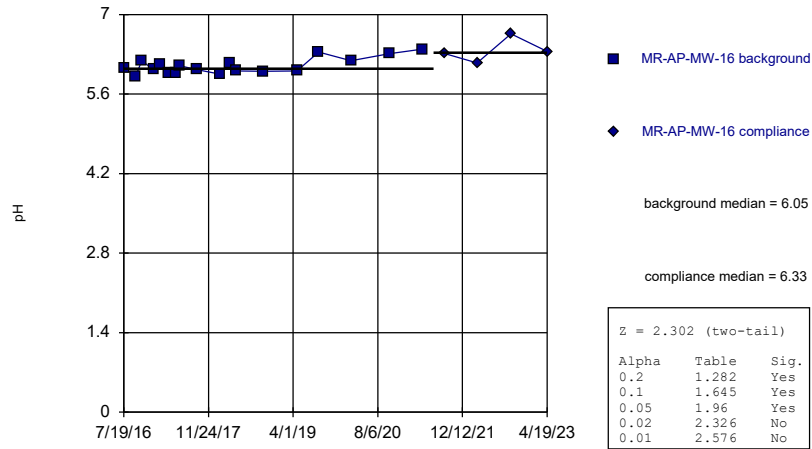
MR-AP-MW-15



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

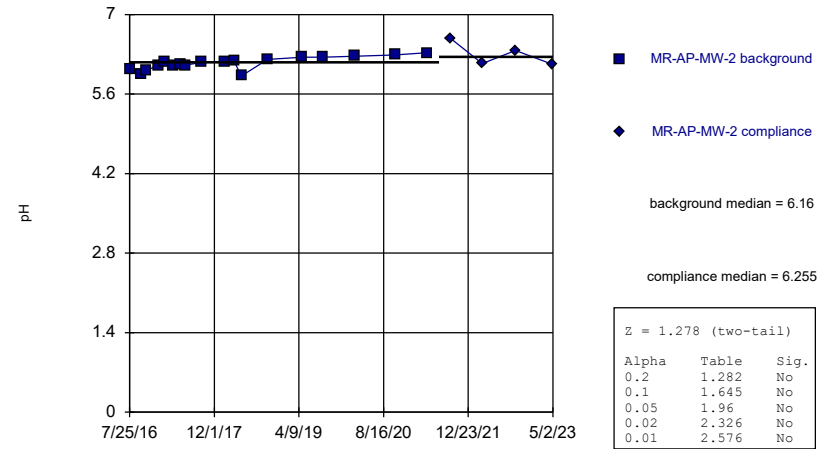
MR-AP-MW-16



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

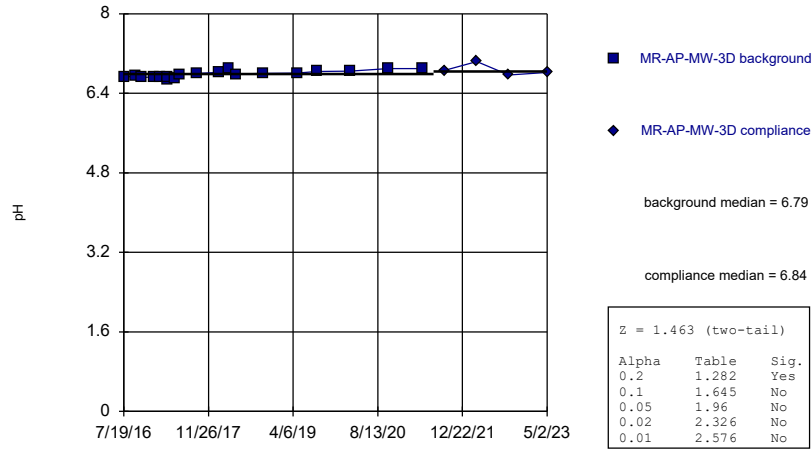
MR-AP-MW-2



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

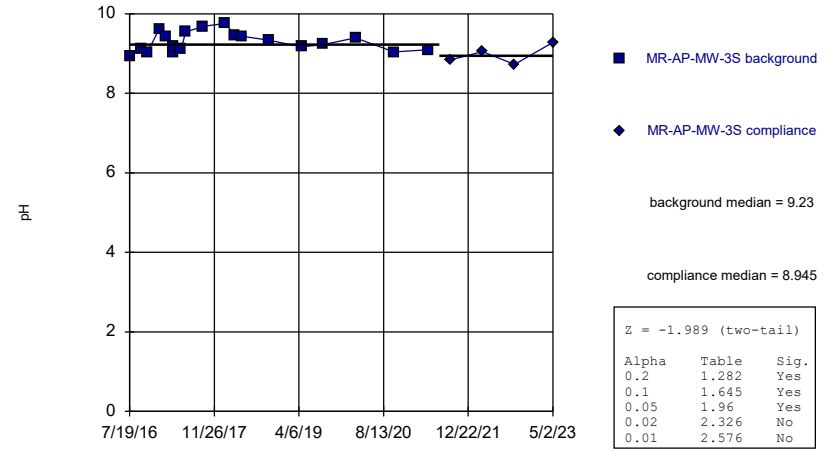
MR-AP-MW-3D



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

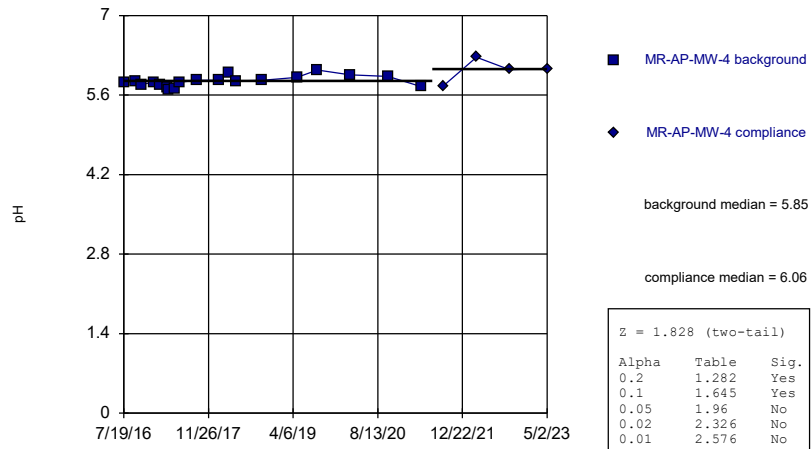
MR-AP-MW-3S



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

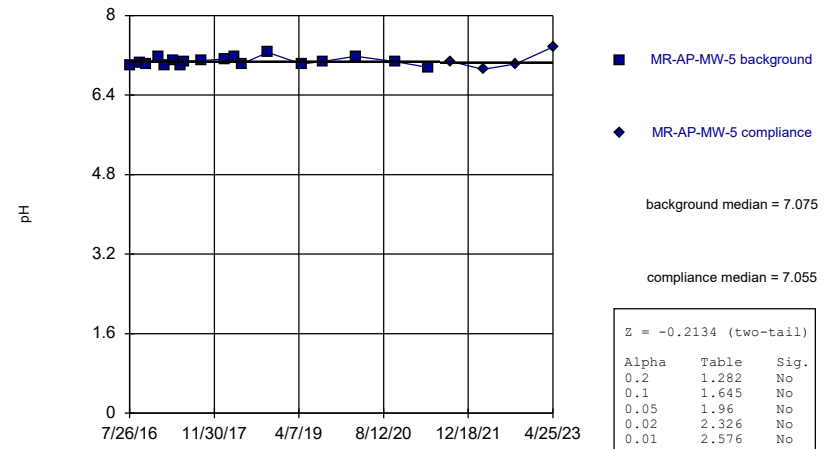
MR-AP-MW-4



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

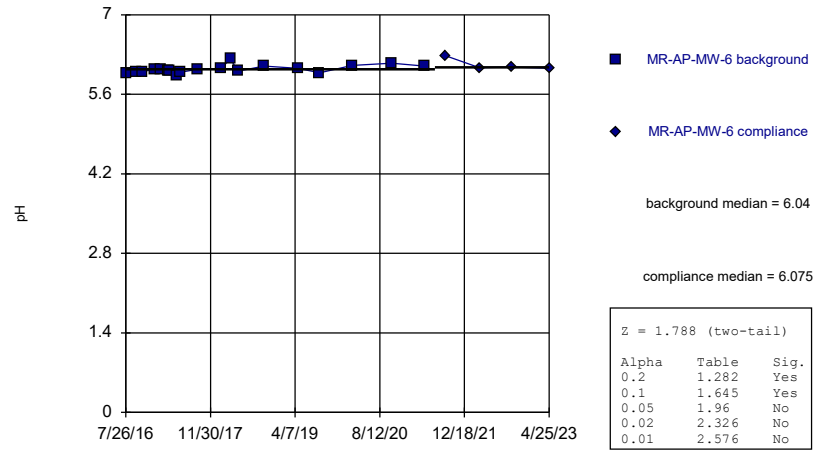
MR-AP-MW-5



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

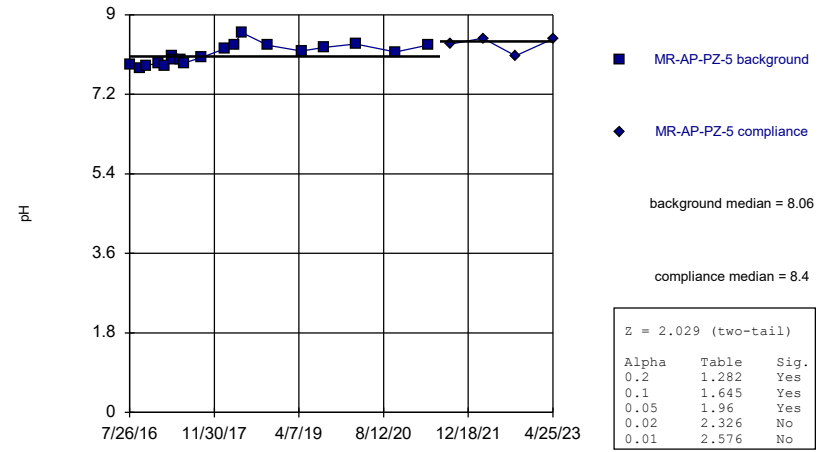
MR-AP-MW-6



Constituent: pH, Field Analysis Run 12/21/2023 2:57 PM View: Mann-Whitney
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

MR-AP-PZ-5



Constituent: pH, Field Analysis Run 12/21/2023 2:58 PM View: Mann-Whitney
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	GS-AP-MW-8	GS-AP-MW-8
8/3/2016	5.84	
9/21/2016	5.99	
10/25/2016	5.94	
12/13/2016	5.84	
2/6/2017	5.9	
3/28/2017	5.67	
4/24/2017	5.79	
6/7/2017	5.71	
8/21/2017	5.7	
2/19/2018	5.78	
5/15/2018	5.84	
10/16/2018	5.75 (D)	
4/16/2019	5.76	
9/24/2019	5.27	
3/18/2020	5.81	
9/21/2020	5.75	
2/2/2021	5.69	
8/10/2021		5.02
2/16/2022		5.8
8/2/2022		5.78
3/27/2023		5.82

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-1
7/25/2016	7.52	
9/26/2016	8.96	
11/2/2016	8.51	
1/11/2017	8.5	
2/13/2017	8.63	
3/30/2017	8.67	
4/3/2017	7.63	
5/15/2017	8.67	
6/14/2017	8.39	
9/19/2017	8.78	
1/29/2018	8.84	
3/27/2018	8.48 (D)	
5/9/2018	8.49	
10/9/2018	9.04	
5/1/2019	11.01 (o)	
8/27/2019	7.48	
3/9/2020	11.95 (o)	
10/19/2020	11.44 (o)	
4/20/2021	9.55	
9/8/2021		9.19
3/15/2022		8.71
9/19/2022		8.09
5/2/2023		8.6

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-10	MR-AP-MW-10
7/25/2016	6.73	
9/27/2016	6.82	
10/31/2016	6.78	
1/11/2017	6.8	
2/14/2017	6.74	
4/6/2017	6.73	
5/17/2017	6.73	
6/13/2017	6.71	
9/21/2017	6.8	
1/31/2018	6.81	
3/28/2018	6.895 (D)	
5/10/2018	6.77	
10/8/2018	6.86	
4/24/2019	6.91	
8/29/2019	6.93	
3/9/2020	7.03	
10/19/2020	7.05	
5/3/2021	7.01	
9/15/2021		7.04
3/17/2022		7.24
9/26/2022		7.16
5/3/2023		7.15

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-MW-11
7/25/2016	6.74	
9/27/2016	6.74	
11/1/2016	6.71	
1/12/2017	6.61	
2/13/2017	6.58	
3/30/2017	6.57	
4/4/2017	6.56	
5/16/2017	6.56	
6/14/2017	6.5	
9/19/2017	6.55	
1/30/2018	7.09	
3/27/2018	6.665 (D)	
5/8/2018	7.04	
10/9/2018	7.3	
5/1/2019	6.64	
8/28/2019	7.22	
3/3/2020	6.6	
10/20/2020	7.26	
4/21/2021	6.54	
9/14/2021		6.67
3/16/2022		6.94
9/20/2022		6.7
5/3/2023		6.52

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-12
7/20/2016	6.63	
9/27/2016	6.59	
11/1/2016	6.6	
1/11/2017	6.59	
2/15/2017	6.59	
4/4/2017	6.54	
5/15/2017	6.56	
6/14/2017	6.55	
9/21/2017	6.53	
1/30/2018	6.59	
3/28/2018	6.645 (D)	
5/8/2018	6.49	
10/8/2018	6.51	
8/28/2019	6.63	
3/10/2020	6.52	
10/19/2020	6.5	
5/5/2021	6.5	
9/7/2021		6.46
3/17/2022		6.65
9/26/2022		6.71
5/3/2023		6.74

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-15	MR-AP-MW-15
7/19/2016	6.55	
9/26/2016	6.55	
10/31/2016	6.49	
1/9/2017	6.46	
2/14/2017	6.47	
4/4/2017	6.38	
5/16/2017	6.46	
6/12/2017	6.41	
9/19/2017	6.5	
1/31/2018	6.5	
3/28/2018	6.49 (D)	
5/7/2018	6.42	
10/9/2018	6.46	
4/24/2019	6.46	
8/28/2019	6.38	
3/4/2020	6.43	
10/13/2020	6.42	
4/26/2021	6.36	
9/1/2021		6.16
3/9/2022		6.37
9/20/2022		6.32
4/19/2023		6.33

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-16
7/19/2016	6.07	
9/26/2016	5.91	
10/31/2016	6.19	
1/9/2017	6.03	
2/14/2017	6.13	
4/3/2017	5.97	
5/16/2017	5.97	
6/12/2017	6.1	
9/19/2017	6.03	
1/30/2018	5.95	
3/28/2018	6.14 (D)	
5/7/2018	6.01	
10/9/2018	6	
4/24/2019	6.01	
8/28/2019	6.34	
3/3/2020	6.19	
10/13/2020	6.31	
4/21/2021	6.39	
9/1/2021		6.31
3/8/2022		6.15
9/20/2022		6.66
4/19/2023		6.35

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-2	MR-AP-MW-2
7/25/2016	6.03	
9/28/2016	5.96	
11/1/2016	6.02	
1/11/2017	6.11	
2/14/2017	6.16	
4/4/2017	6.1	
5/16/2017	6.12	
6/14/2017	6.11	
9/20/2017	6.16	
1/30/2018	6.17	
3/27/2018	6.19 (D)	
5/9/2018	5.92	
10/9/2018	6.21	
5/1/2019	6.25	
8/27/2019	6.25	
3/3/2020	6.27	
10/21/2020	6.29	
4/26/2021	6.33	
9/14/2021		6.58
3/16/2022		6.14
9/26/2022		6.37
5/2/2023		6.12

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3D	MR-AP-MW-3D
7/19/2016	6.72	
9/26/2016	6.76	
10/31/2016	6.72	
1/9/2017	6.73	
2/13/2017	6.73	
3/29/2017	6.68	
4/3/2017	6.73	
5/16/2017	6.71	
6/12/2017	6.79	
9/20/2017	6.8	
1/29/2018	6.82	
3/27/2018	6.91 (D)	
5/10/2018	6.79	
10/9/2018	6.8	
4/29/2019	6.81	
8/27/2019	6.84	
3/3/2020	6.85	
10/13/2020	6.9	
5/5/2021	6.9	
9/7/2021		6.86
3/16/2022		7.04
9/19/2022		6.77
5/2/2023		6.82

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-3S	MR-AP-MW-3S
7/19/2016	8.95	
9/26/2016	9.13	
10/31/2016	9.04	
1/9/2017	9.62	
2/13/2017	9.43	
3/29/2017	9.04	
4/3/2017	9.18	
5/16/2017	9.11	
6/12/2017	9.54	
9/20/2017	9.69	
1/29/2018	9.76	
3/27/2018	9.475 (D)	
5/10/2018	9.44	
10/9/2018	9.34	
4/22/2019	9.17	
8/27/2019	9.23	
3/3/2020	9.4	
10/13/2020	9.04	
5/5/2021	9.1	
9/7/2021		8.84
3/16/2022		9.05
9/19/2022		8.73
5/2/2023		9.28

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4
7/19/2016	5.82	
9/27/2016	5.85	
11/1/2016	5.79	
1/9/2017	5.83	
2/13/2017	5.78	
3/30/2017	5.73	
4/4/2017	5.7	
5/16/2017	5.72	
6/12/2017	5.83	
9/20/2017	5.86	
1/29/2018	5.86	
3/27/2018	6 (D)	
5/9/2018	5.85	
10/8/2018	5.86	
4/29/2019	5.91	
8/27/2019	6.04	
3/4/2020	5.96	
10/14/2020	5.93	
4/26/2021	5.75	
9/1/2021		5.76
3/15/2022		6.27
9/26/2022		6.05
5/2/2023		6.07

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-5	MR-AP-MW-5
7/26/2016	7.01	
9/28/2016	7.06	
11/2/2016	7.02	
1/10/2017	7.17	
2/14/2017	7.01	
4/3/2017	7.09	
5/17/2017	7	
6/12/2017	7.08	
9/18/2017	7.09	
1/31/2018	7.13	
3/27/2018	7.175 (D)	
5/9/2018	7.03	
10/8/2018	7.26	
4/23/2019	7.03	
8/28/2019	7.08	
3/2/2020	7.18	
10/21/2020	7.07	
5/3/2021	6.96	
9/8/2021		7.08
3/14/2022		6.92
9/20/2022		7.03
4/25/2023		7.37

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-MW-6	MR-AP-MW-6
7/26/2016	5.98	
9/28/2016	6	
11/1/2016	6	
1/9/2017	6.04	
2/13/2017	6.04	
3/29/2017	6.01	
4/3/2017	6.02	
5/16/2017	5.92	
6/12/2017	5.99	
9/18/2017	6.04	
1/31/2018	6.05	
3/27/2018	6.23 (D)	
5/9/2018	6.01	
10/8/2018	6.1	
4/23/2019	6.06	
8/28/2019	5.98	
3/3/2020	6.11	
10/20/2020	6.15	
4/28/2021	6.1	
9/1/2021		6.28
3/16/2022		6.07
9/21/2022		6.08
4/25/2023		6.06

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: pH, Field (pH) Analysis Run 12/21/2023 2:59 PM View: Mann-Whitney

Plant Miller Client: Southern Company Data: Miller Ash Pond

	MR-AP-PZ-5	MR-AP-PZ-5
7/26/2016	7.88	
9/28/2016	7.8	
11/2/2016	7.86	
1/12/2017	7.9	
2/13/2017	7.86	
3/30/2017	8.06	
4/3/2017	8	
5/17/2017	7.99	
6/12/2017	7.91	
9/18/2017	8.04	
1/31/2018	8.23	
3/27/2018	8.33 (D)	
5/9/2018	8.6	
10/8/2018	8.31	
4/23/2019	8.18	
8/29/2019	8.26	
3/2/2020	8.34	
10/21/2020	8.16	
5/3/2021	8.32	
9/8/2021		8.34
3/14/2022		8.47
9/20/2022		8.07
4/25/2023		8.46

FIGURE E.

US J U D G L H Q W e n d H e s t O s u m m a r y - S i g n i f i c a n t R e s u l t s

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/14/2023, 8:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0	104	87	Yes	21	66.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22I (bg)	-0.01069	-24	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23A (bg)	-0.02233	-22	-21	Yes	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22S (bg)	24.54	22	21	Yes	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1651	99	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22D (bg)	72.46	22	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23A (bg)	19.05	24	21	Yes	8	0	n/a	n/a	0.01	NP

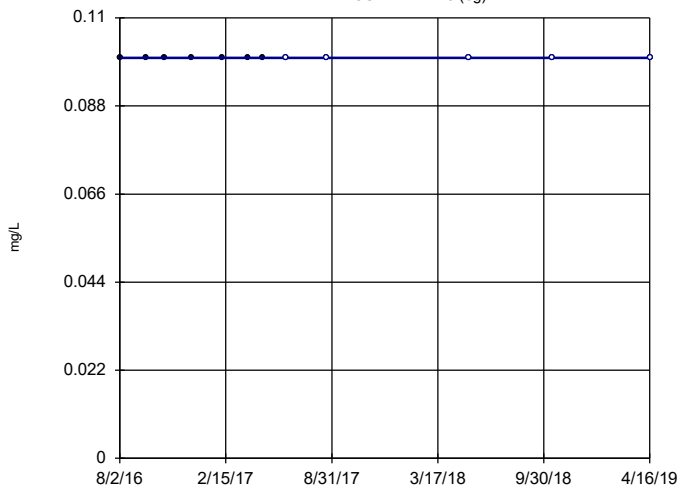
Upgradient Wells - Trend Test Summary - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/14/2023, 8:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-13 (bg)	5.9e-10	0	38	No	12	41.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-17V (bg)	-0.002694	-11	-30	No	10	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0	104	87	Yes	21	66.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-21 (bg)	0.0005097	5	30	No	10	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22D (bg)	-0.02029	-11	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22I (bg)	-0.01069	-24	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22S (bg)	0.001805	4	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23 (bg)	-0.01881	-16	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23A (bg)	-0.02233	-22	-21	Yes	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-13 (bg)	-2.607	-32	-38	No	12	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-17V (bg)	0.1203	4	30	No	10	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-8 (bg)	-0.2946	-47	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-21 (bg)	1.088	13	30	No	10	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22D (bg)	0.3397	0	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22I (bg)	-0.497	-12	-21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22S (bg)	24.54	22	21	Yes	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23 (bg)	4.113	8	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23A (bg)	7.452	19	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-13 (bg)	0.1178	10	38	No	12	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-17V (bg)	-0.2384	-29	-30	No	10	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1651	99	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-21 (bg)	0.03042	2	30	No	10	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22D (bg)	113.6	4	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22I (bg)	-25.59	-6	-21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22S (bg)	10.75	3	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23 (bg)	59.42	10	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23A (bg)	17.64	7	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-17V (bg)	0.00066	3	30	No	10	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-8 (bg)	0.002865	46	92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-21 (bg)	-0.01625	-13	-30	No	10	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22D (bg)	0.02344	5	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22I (bg)	-0.04005	-20	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22S (bg)	-0.04231	-18	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23 (bg)	-0.01957	-16	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23A (bg)	-0.01501	-9	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-13 (bg)	0.01849	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-17V (bg)	-0.7	-15	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-8 (bg)	0.2514	63	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-21 (bg)	5.054	20	30	No	10	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22D (bg)	72.46	22	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22I (bg)	-5.992	-14	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22S (bg)	15.51	12	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23 (bg)	0.2373	8	21	No	8	12.5	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23A (bg)	19.05	24	21	Yes	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-13 (bg)	-7.182	-29	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-17V (bg)	-5.63	-17	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-8 (bg)	-1.421	-39	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-21 (bg)	5.483	9	30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22D (bg)	-94.03	0	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22I (bg)	-57.63	-12	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22S (bg)	60.31	14	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23 (bg)	21.54	6	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23A (bg)	124.2	14	21	No	8	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GS-AP-MW-13 (bg)

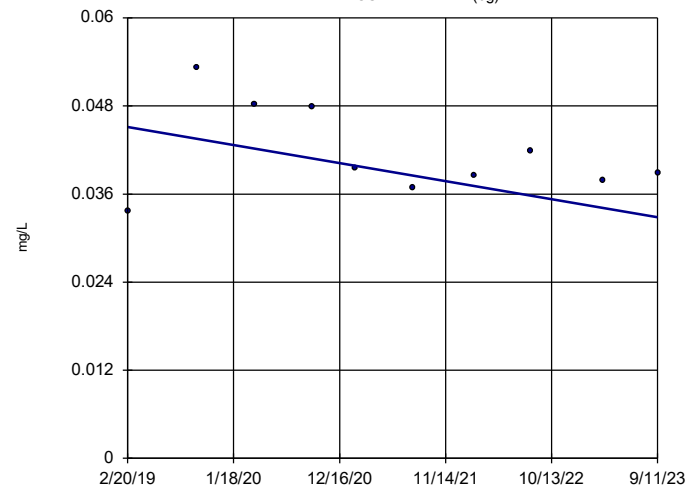


n = 12
Slope = 5.9e-10
units per year.
Mann-Kendall
statistic = 0
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

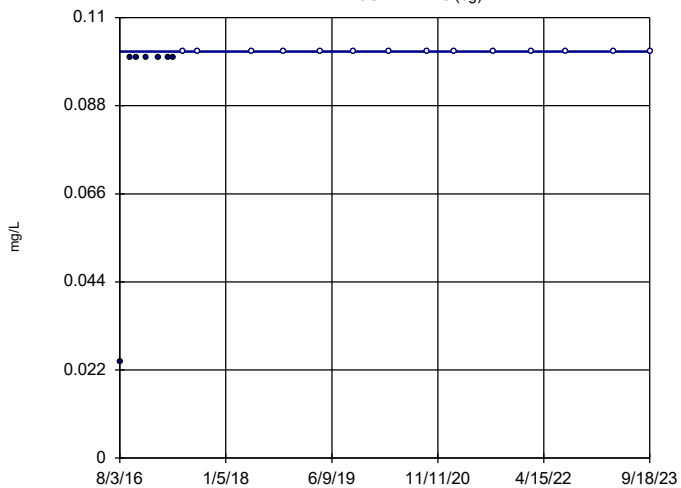


n = 10
Slope = -0.002694
units per year.
Mann-Kendall
statistic = -11
critical = -30
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

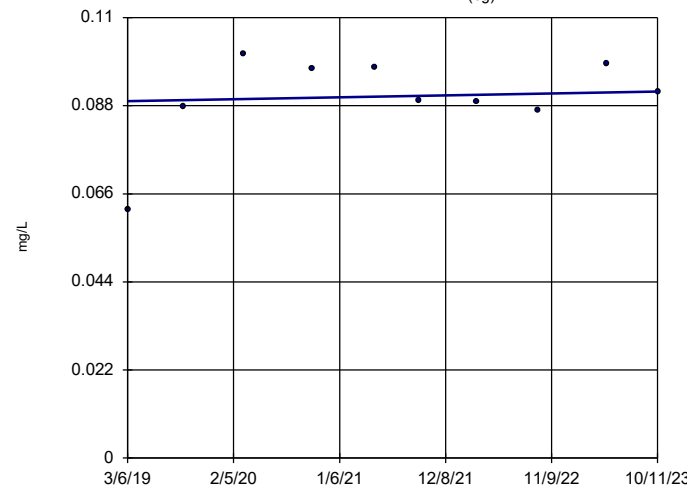


n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = 104
critical = 87
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

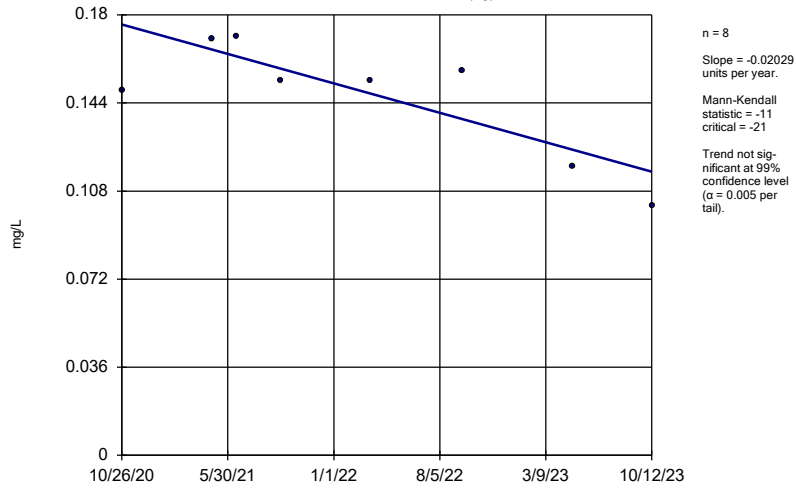


n = 10
Slope = 0.0005097
units per year.
Mann-Kendall
statistic = 5
critical = 30
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

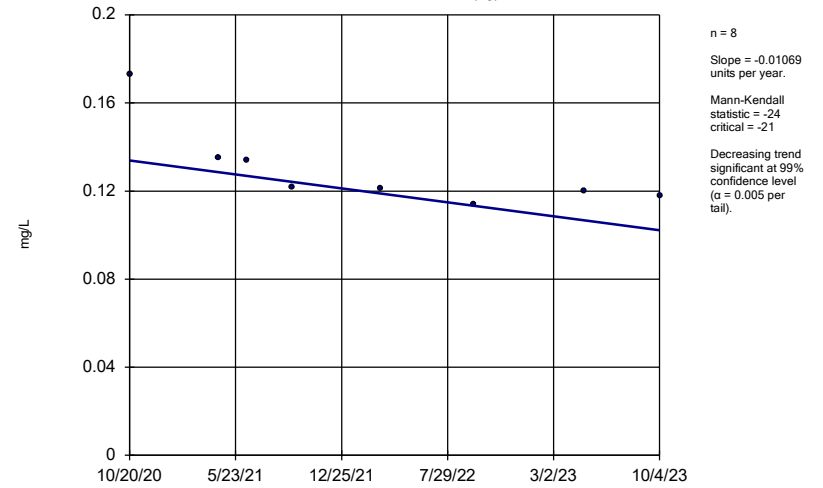
MR-AP-MW-22D (bg)



Constituent: Boron, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

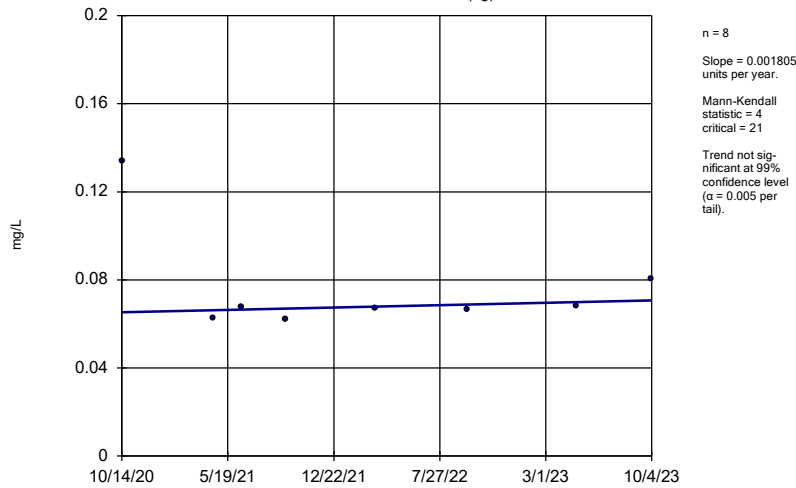
MR-AP-MW-22I (bg)



Constituent: Boron, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

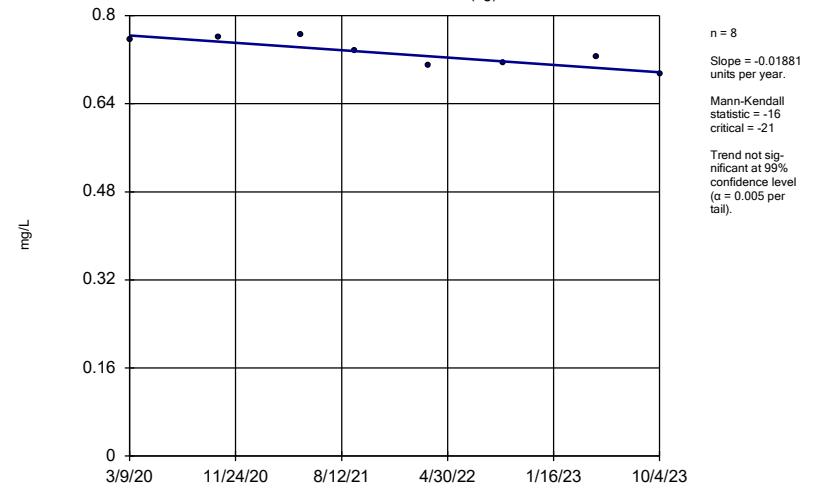
MR-AP-MW-22S (bg)



Constituent: Boron, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

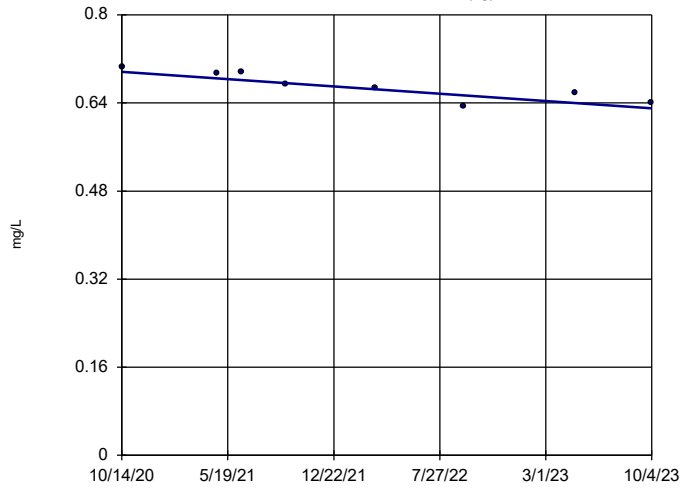
MR-AP-MW-23 (bg)



Constituent: Boron, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

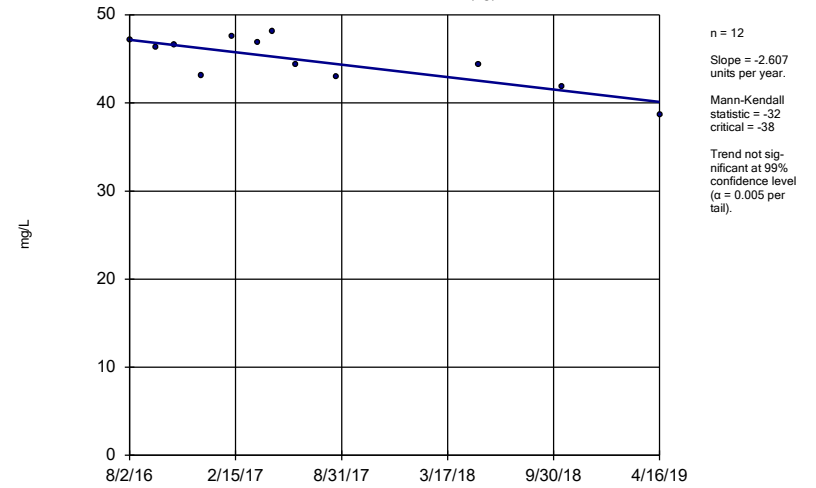
MR-AP-MW-23A (bg)



Constituent: Boron, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

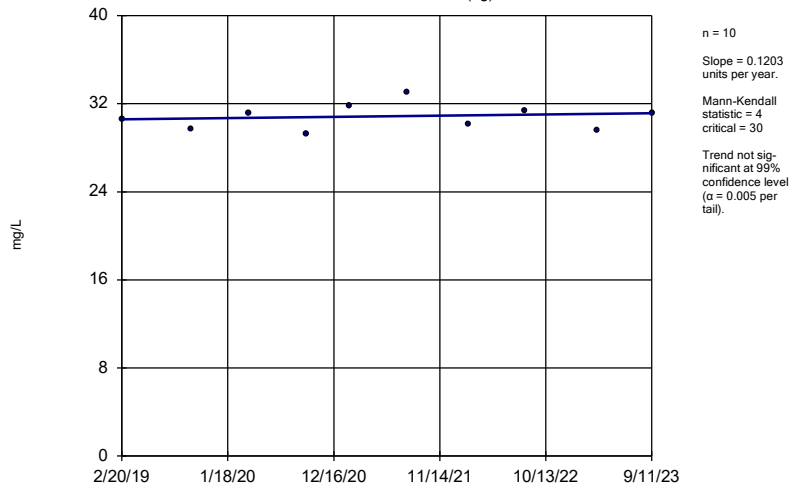
GS-AP-MW-13 (bg)



Constituent: Calcium, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

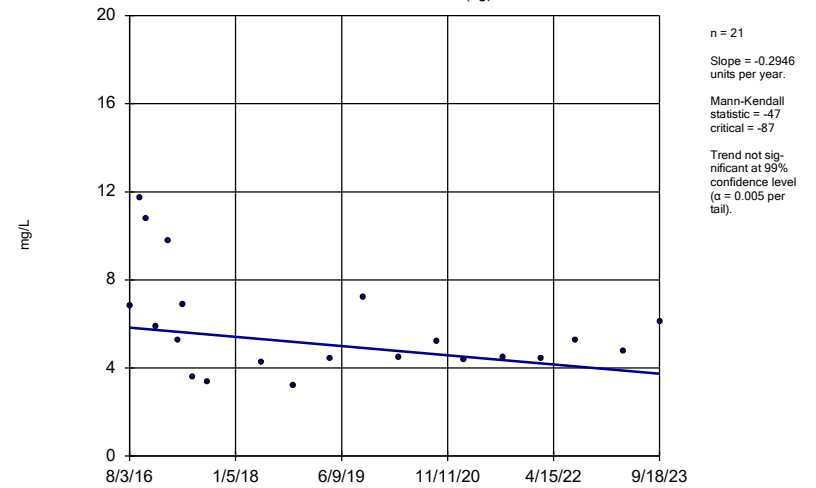
GS-AP-MW-17V (bg)



Constituent: Calcium, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

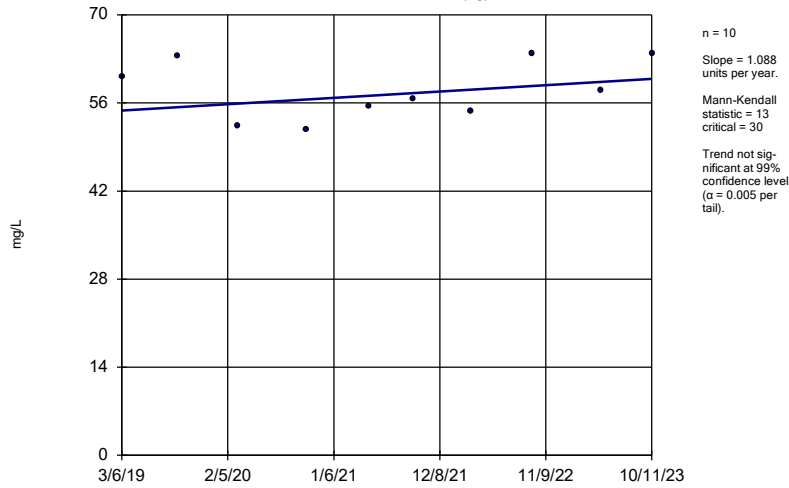
GS-AP-MW-8 (bg)



Constituent: Calcium, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

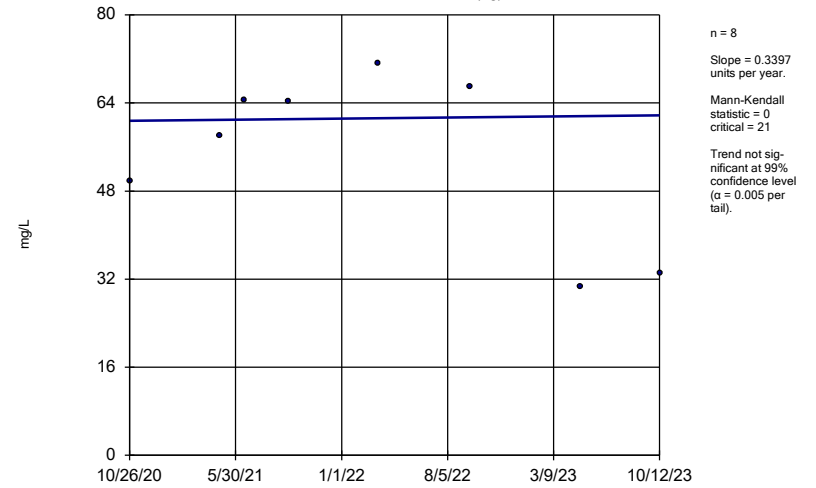
MR-AP-MW-21 (bg)



Constituent: Calcium, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

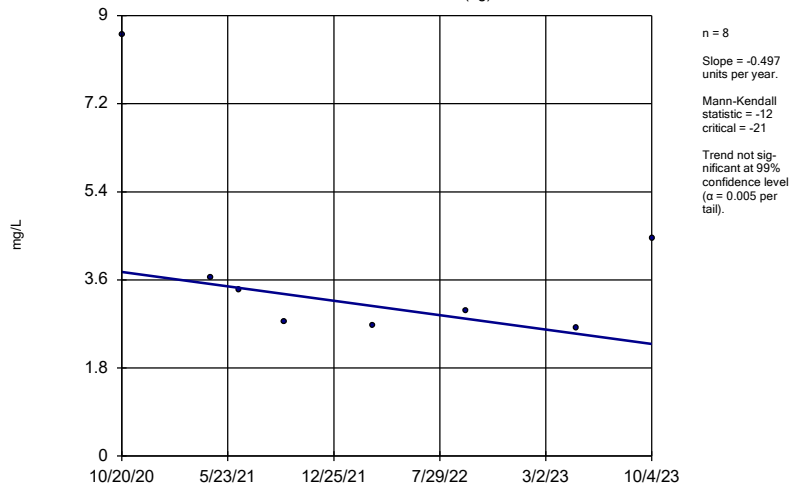
MR-AP-MW-22D (bg)



Constituent: Calcium, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

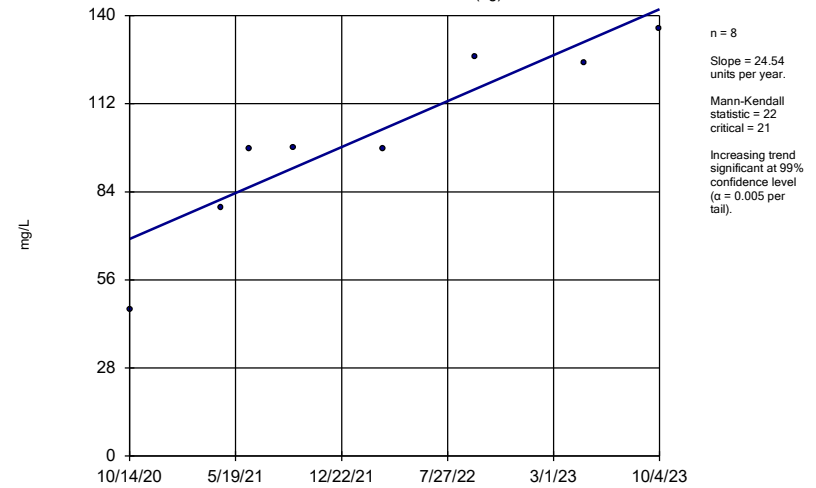
MR-AP-MW-22I (bg)



Constituent: Calcium, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

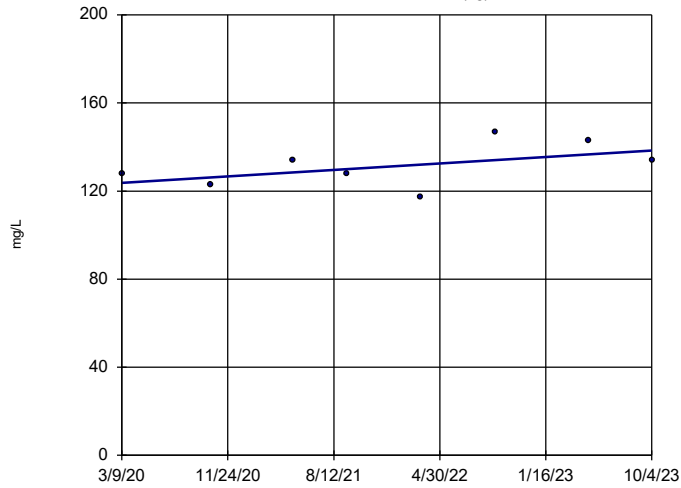
MR-AP-MW-22S (bg)



Constituent: Calcium, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

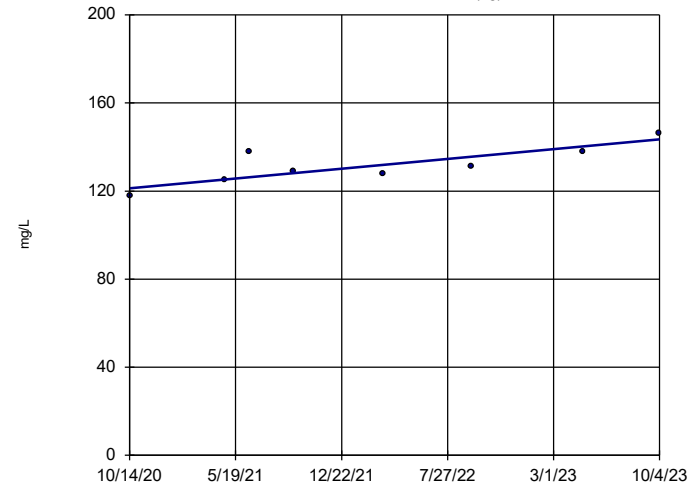


n = 8
 Slope = 4.113
 units per year.
 Mann-Kendall
 statistic = 8
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

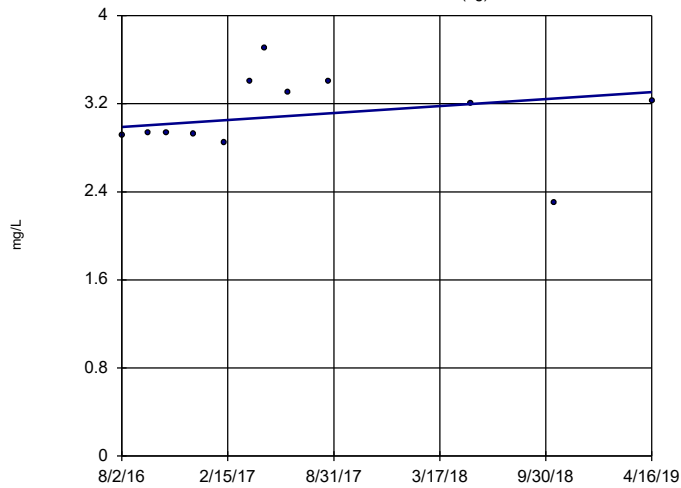


n = 8
 Slope = 7.452
 units per year.
 Mann-Kendall
 statistic = 19
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

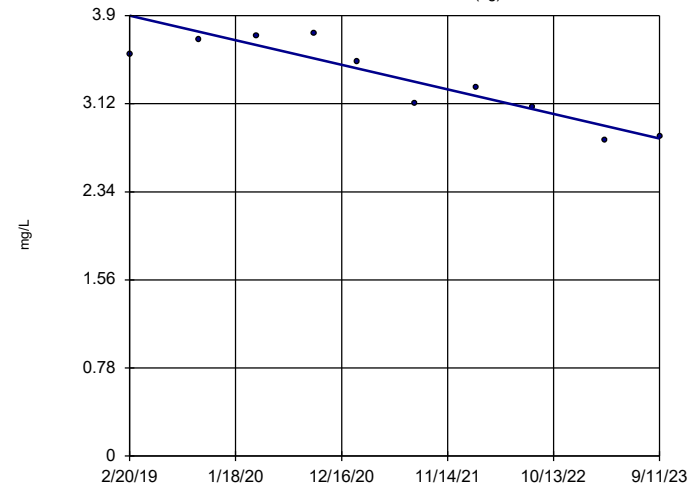


n = 12
 Slope = 0.1178
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

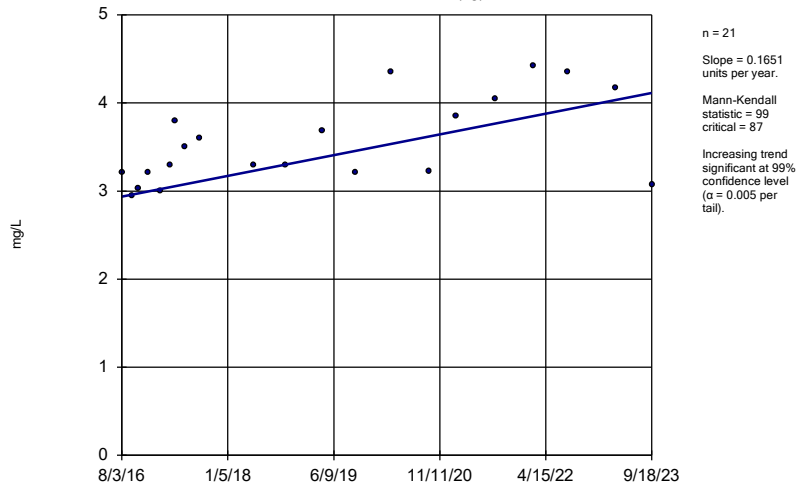


n = 10
 Slope = -0.2384
 units per year.
 Mann-Kendall
 statistic = -29
 critical = -30
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

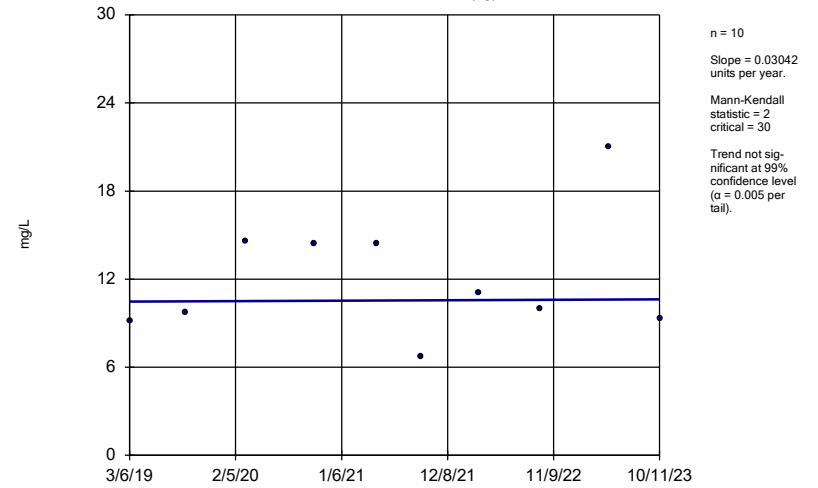
GS-AP-MW-8 (bg)



Constituent: Chloride, Total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

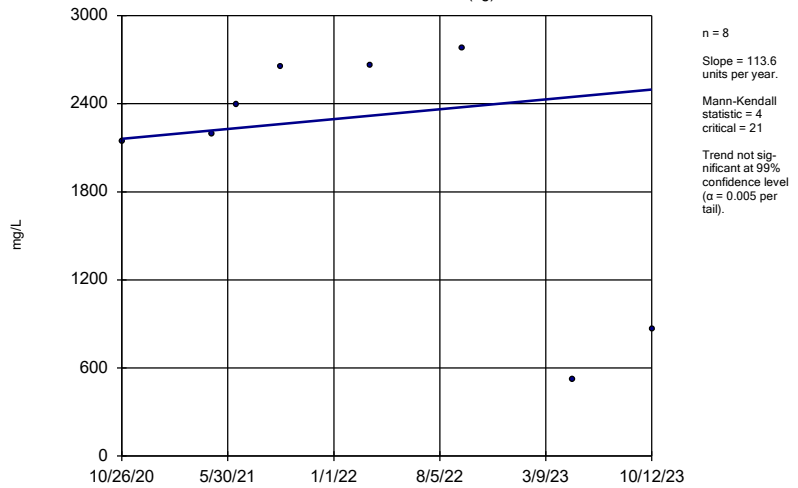
MR-AP-MW-21 (bg)



Constituent: Chloride, Total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

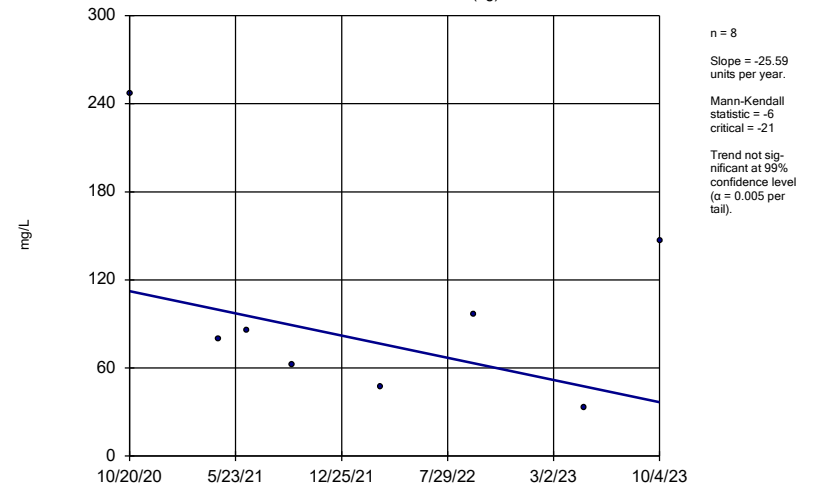
MR-AP-MW-22D (bg)



Constituent: Chloride, Total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

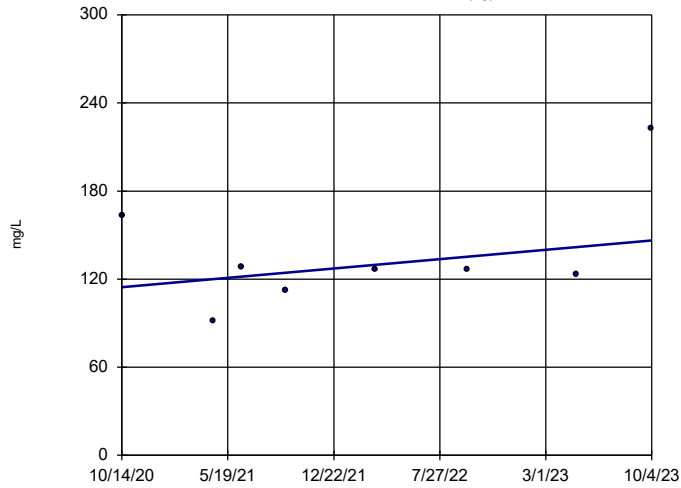
MR-AP-MW-22I (bg)



Constituent: Chloride, Total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

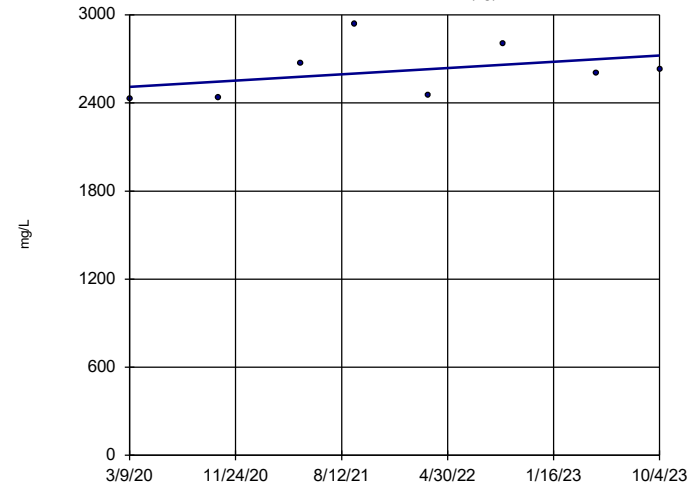


n = 8
 Slope = 10.75 units per year.
 Mann-Kendall statistic = 3
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

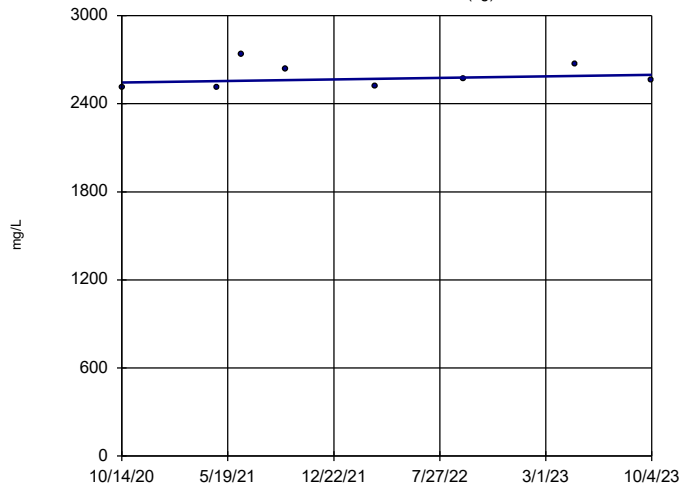


n = 8
 Slope = 59.42 units per year.
 Mann-Kendall statistic = 10
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

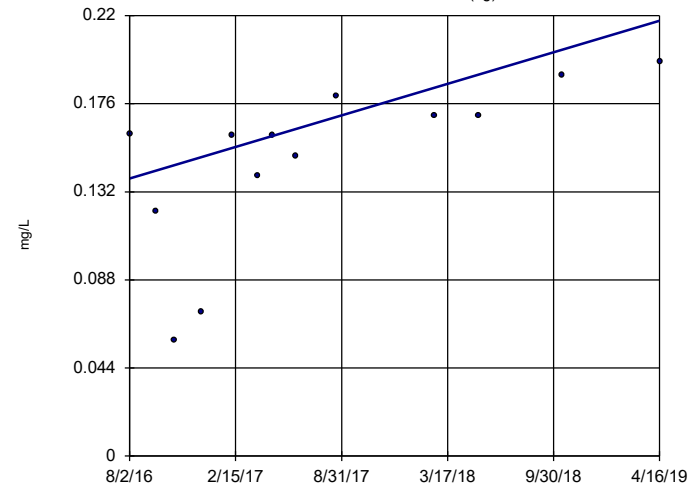


n = 8
 Slope = 17.64 units per year.
 Mann-Kendall statistic = 7
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

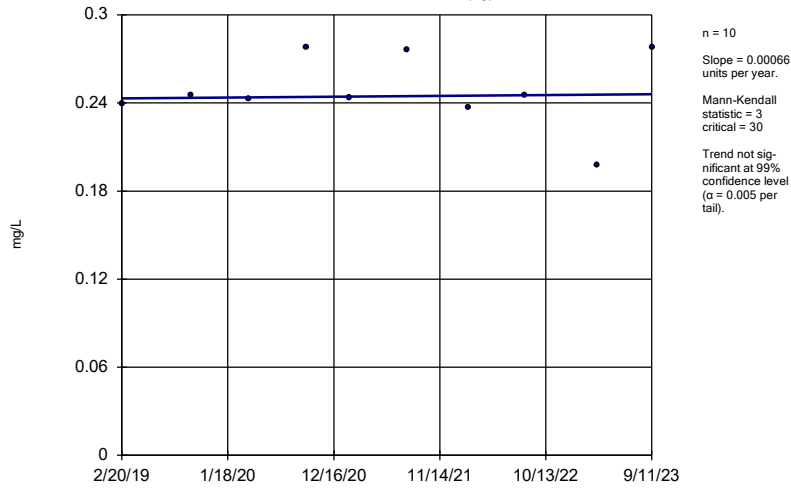


n = 13
 Slope = 0.02914 units per year.
 Mann-Kendall statistic = 48
 critical = 43
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 12/14/2023 8:14 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

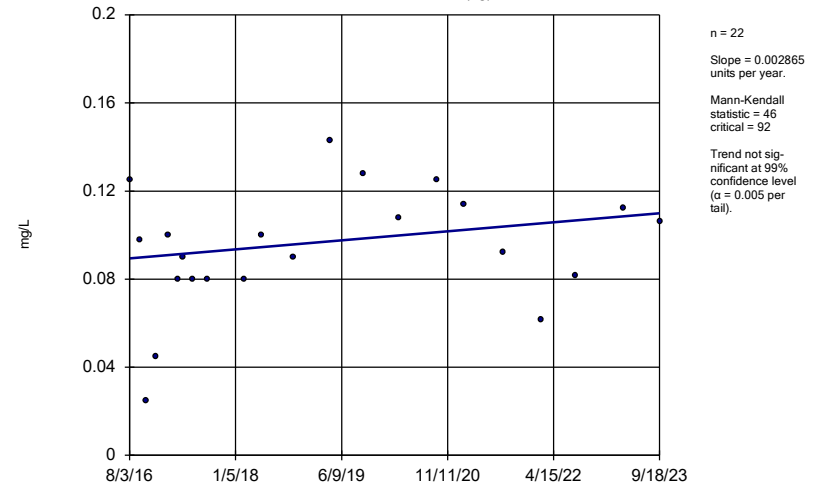
GS-AP-MW-17V (bg)



Constituent: Fluoride, total Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

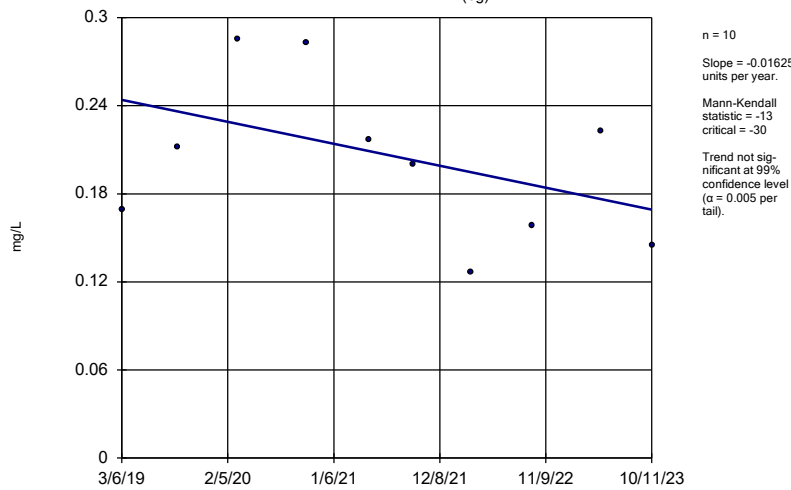
GS-AP-MW-8 (bg)



Constituent: Fluoride, total Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

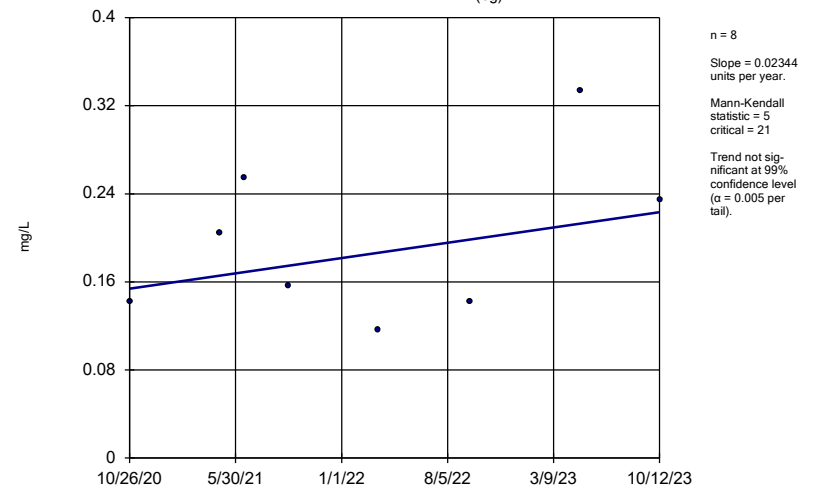
MR-AP-MW-21 (bg)



Constituent: Fluoride, total Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

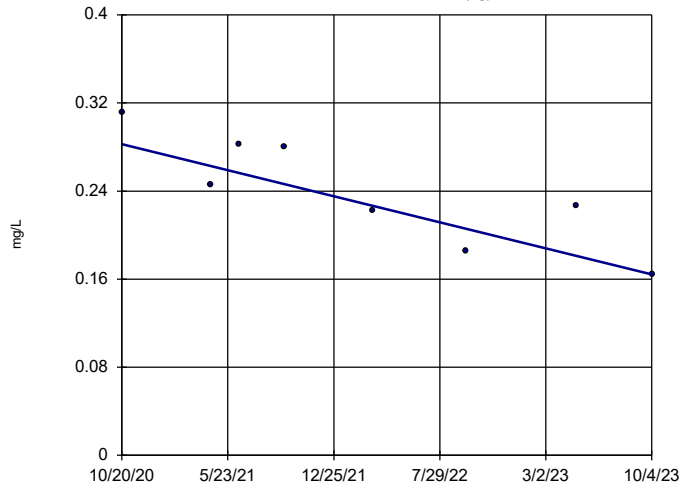
MR-AP-MW-22D (bg)



Constituent: Fluoride, total Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22I (bg)

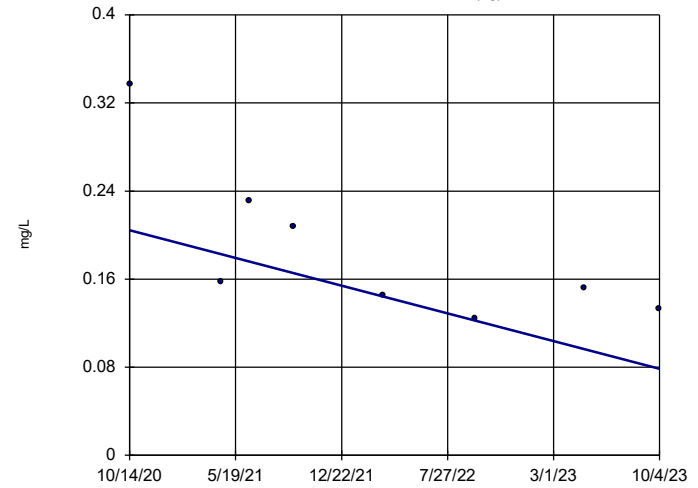


n = 8
 Slope = -0.04005
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Fluoride, total Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

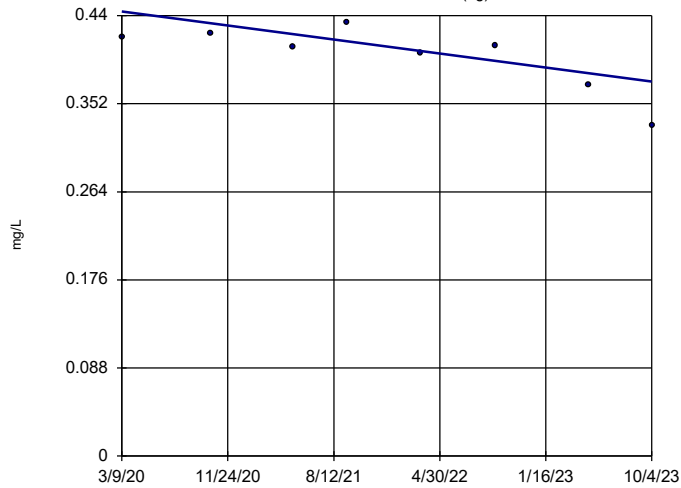


n = 8
 Slope = -0.04231
 units per year.
 Mann-Kendall
 statistic = -18
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Fluoride, total Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

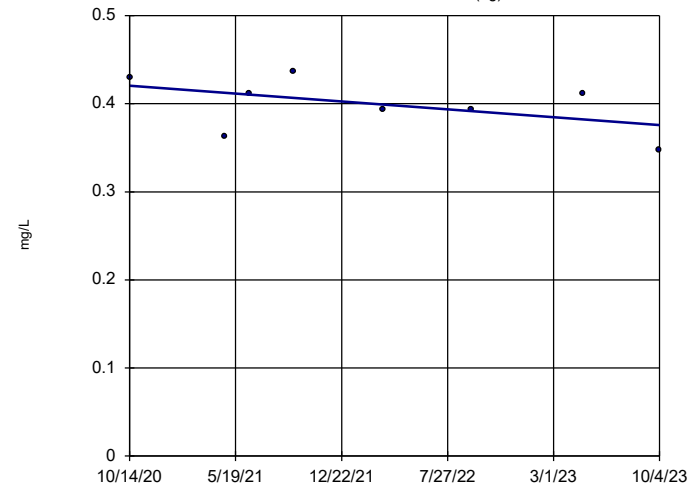


n = 8
 Slope = -0.01957
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Fluoride, total Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

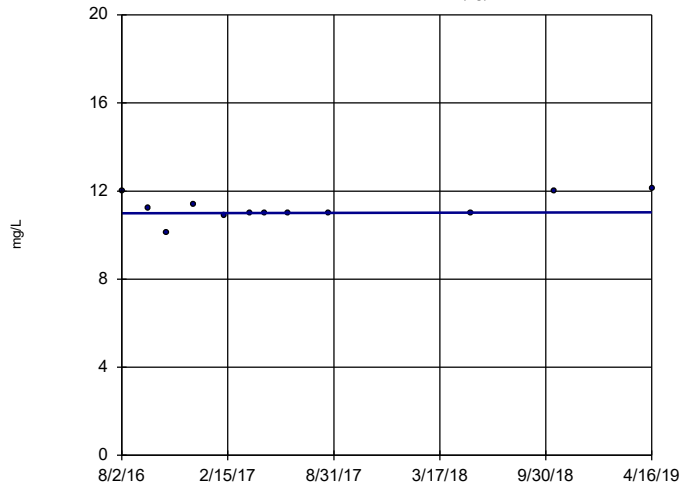


n = 8
 Slope = -0.01501
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Fluoride, total Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

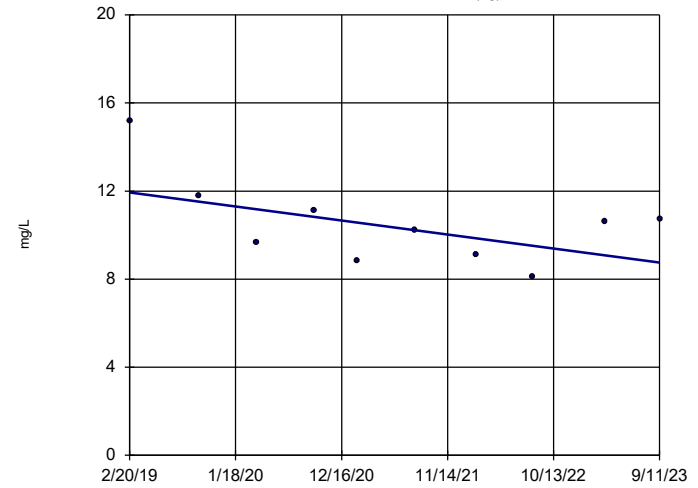


n = 12
 Slope = 0.01849 units per year.
 Mann-Kendall statistic = 11
 critical = 38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

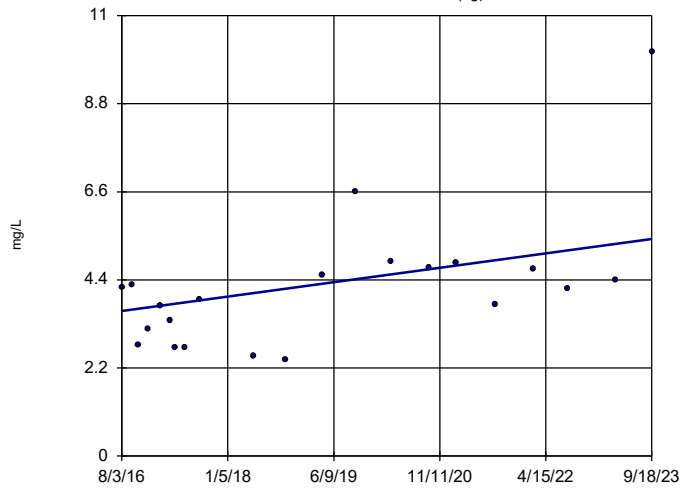


n = 10
 Slope = -0.7 units per year.
 Mann-Kendall statistic = -15
 critical = -30
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

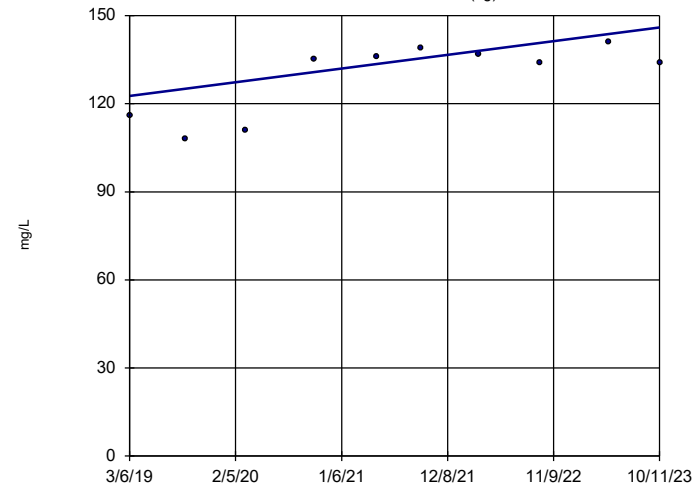


n = 21
 Slope = 0.2514 units per year.
 Mann-Kendall statistic = 63
 critical = 87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

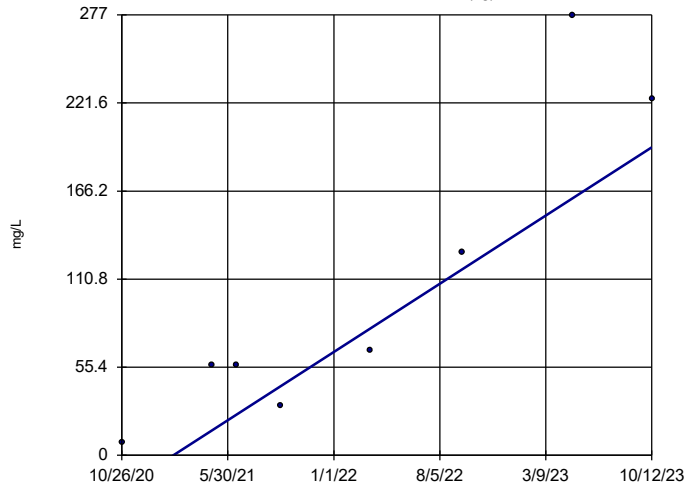


n = 10
 Slope = 5.054 units per year.
 Mann-Kendall statistic = 20
 critical = 30
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22D (bg)

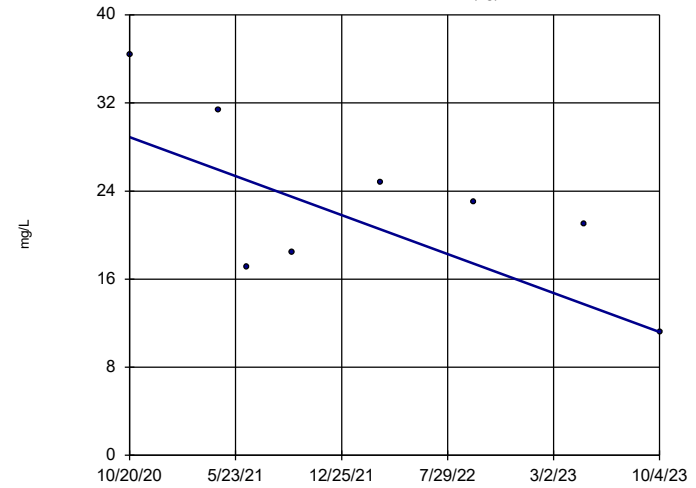


n = 8
 Slope = 72.46
 units per year.
 Mann-Kendall
 statistic = 22
 critical = 21
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22I (bg)

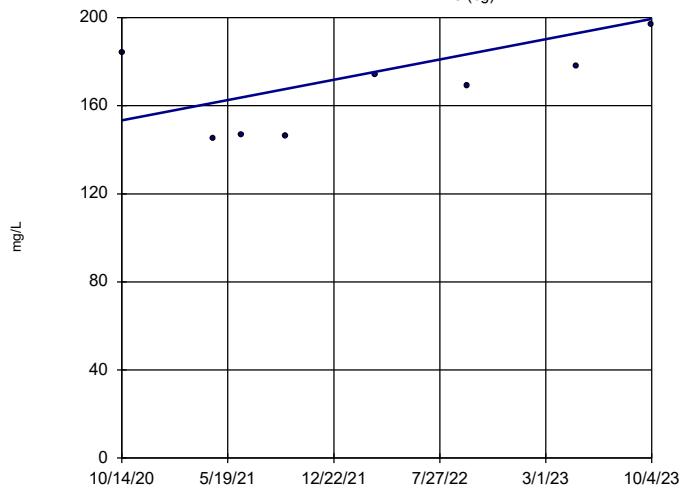


n = 8
 Slope = -5.992
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)



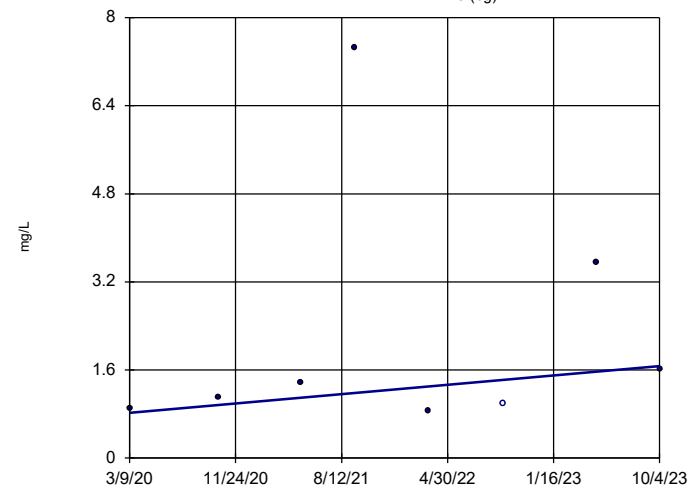
n = 8
 Slope = 15.51
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

MR-AP-MW-23 (bg)

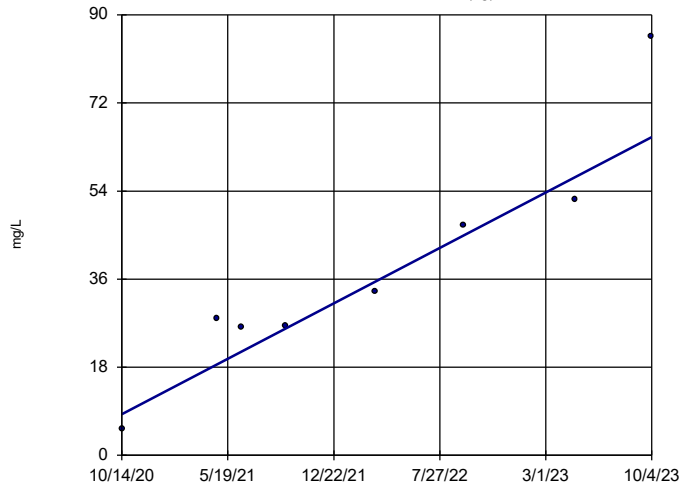


n = 8
 Slope = 0.2373
 units per year.
 Mann-Kendall
 statistic = 8
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

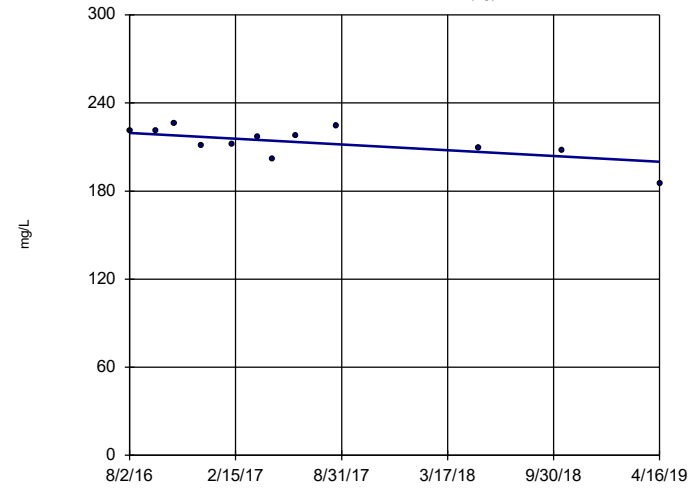


n = 8
 Slope = 19.05 units per year.
 Mann-Kendall statistic = 24
 critical = 21
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

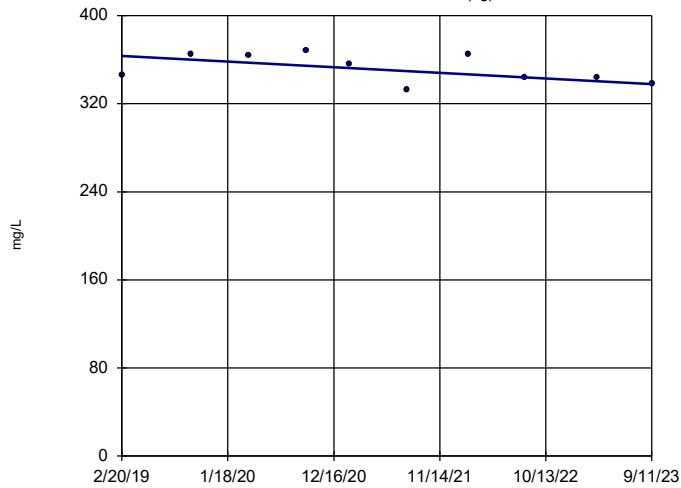


n = 12
 Slope = -7.182 units per year.
 Mann-Kendall statistic = -29
 critical = -38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

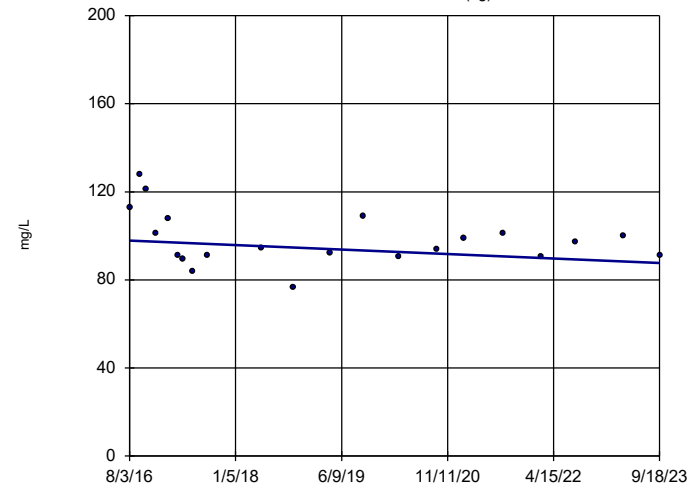


n = 10
 Slope = -5.63 units per year.
 Mann-Kendall statistic = -17
 critical = -30
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

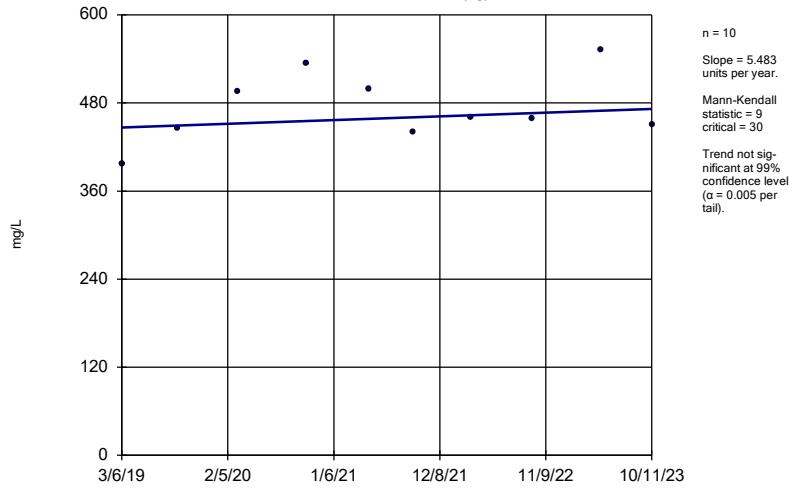


n = 21
 Slope = -1.421 units per year.
 Mann-Kendall statistic = -39
 critical = -87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradient Trend Test
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

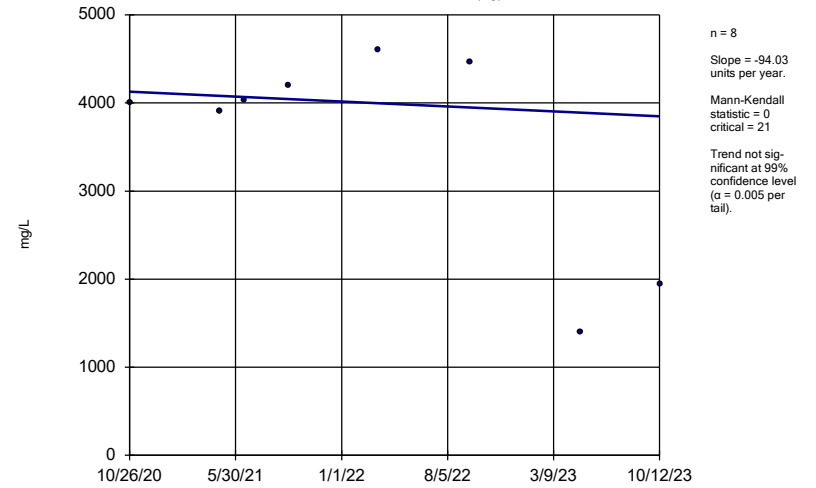
MR-AP-MW-21 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradie Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

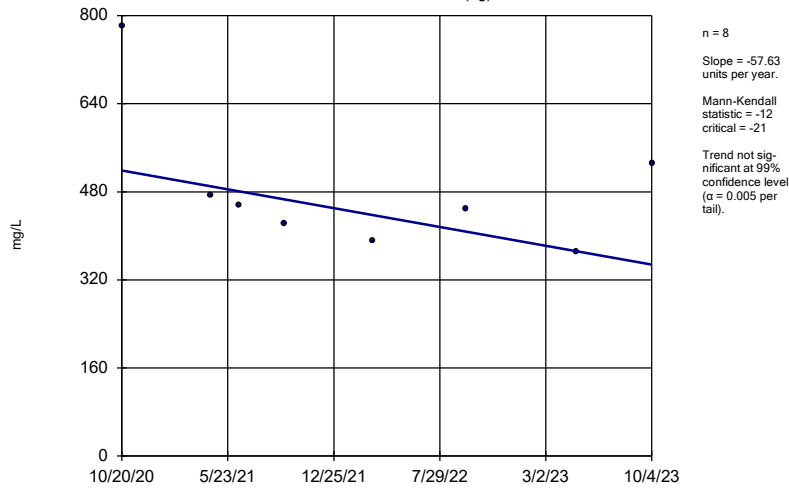
MR-AP-MW-22D (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradie Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

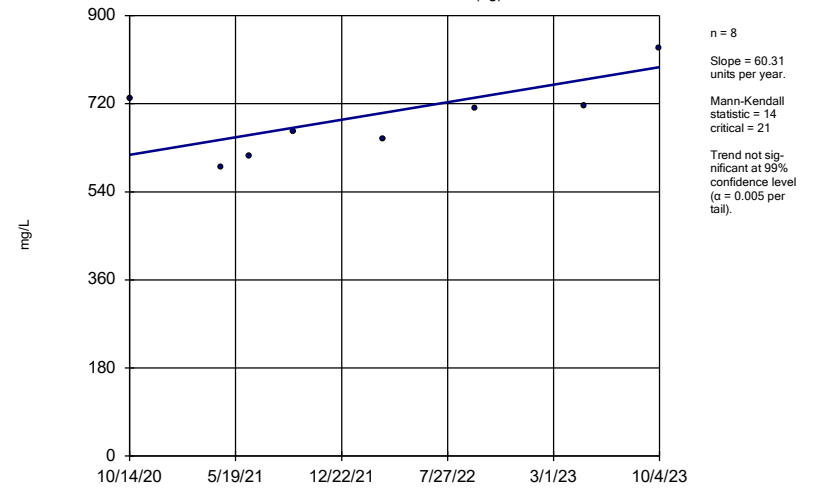
MR-AP-MW-22I (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradie Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

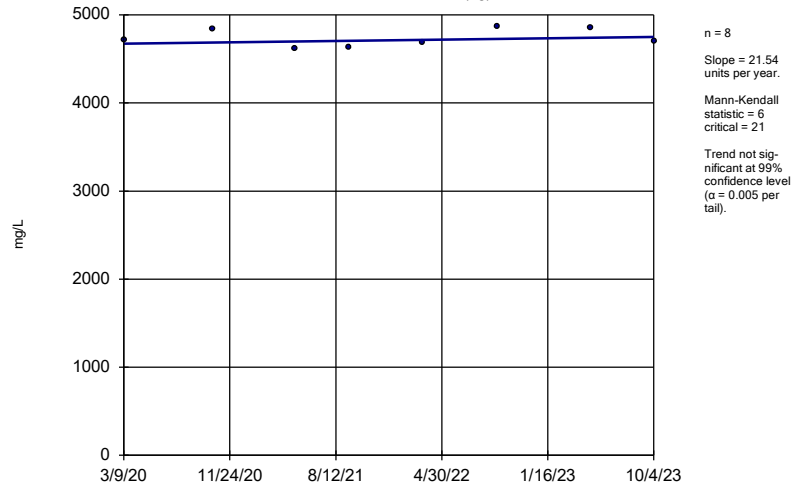
MR-AP-MW-22S (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradie Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

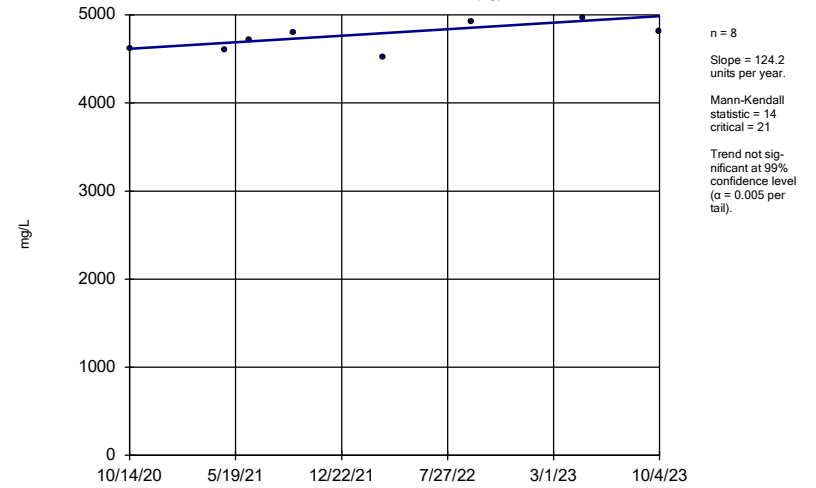
MR-AP-MW-23 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradie
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/14/2023 8:15 PM View: Appendix III - Upgradie
 Plant Miller Client: Southern Company Data: Miller Ash Pond

FIGURE F.

Appendix III - Intrawell Prediction Limits - Significant Results

Plant Miller Data: Miller Ash Pond Printed 12/19/2023, 1:52 PM

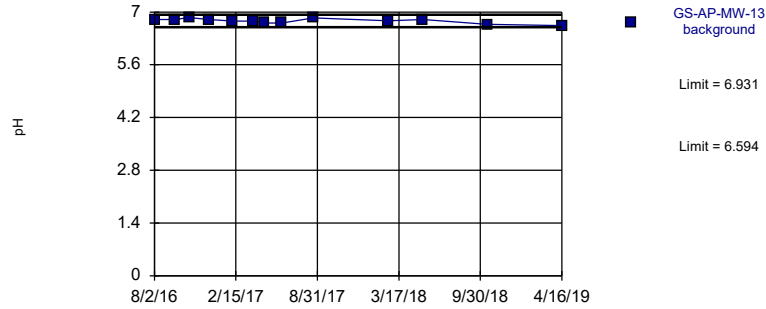
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	MR-AP-MW-15	6.629	6.223	9/26/2023	5.89	Yes	22	6.426	0.08721	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-16	6.573	5.718	10/11/2023	6.63	Yes	22	6.146	0.1839	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3D	6.994	6.613	10/3/2023	6.5	Yes	23	6.803	0.08277	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-4	6.193	5.565	10/10/2023	6.36	Yes	23	5.879	0.1362	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-6	6.244	5.871	10/3/2023	6.3	Yes	23	6.057	0.08086	0	None	No	0.0002894	Param Intra 1 of 2

Appendix III - Intrawell Prediction Limits - All Results

Plant Miller Data: Miller Ash Pond Printed 12/19/2023, 1:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (pH)	GS-AP-MW-13	6.931	6.594	n/a	1 future	n/a	13	6.762	0.06353	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	GS-AP-MW-17V	7.886	7.312	9/11/2023	7.61	No	9	7.599	0.09239	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	GS-AP-MW-8	5.99	5.02	9/18/2023	5.42	No	21	n/a	n/a	0	n/a	n/a	0.007998	NP Intra (normality) 1 of 2
pH, Field (pH)	MR-AP-MW-1	9.785	7.288	10/11/2023	7.96	No	20	8.537	0.529	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-10	7.266	6.525	10/9/2023	7.16	No	22	6.895	0.1593	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-11	7.3	6.5	10/11/2023	6.59	No	23	n/a	n/a	0	n/a	n/a	0.006831	NP Intra (normality) 1 of 2
pH, Field (pH)	MR-AP-MW-12	6.748	6.406	10/2/2023	6.53	No	21	6.577	0.07297	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-15	6.629	6.223	9/26/2023	5.89	Yes	22	6.426	0.08721	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-16	6.573	5.718	10/11/2023	6.63	Yes	22	6.146	0.1839	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-2	6.512	5.839	10/10/2023	6.18	No	22	6.175	0.1446	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-21	8.205	6.984	10/11/2023	7.49	No	9	7.594	0.1963	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3D	6.994	6.613	10/3/2023	6.5	Yes	23	6.803	0.08277	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-3S	9.863	8.622	10/3/2023	8.76	No	23	9.243	0.2691	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-4	6.193	5.565	10/10/2023	6.36	Yes	23	5.879	0.1362	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-5	7.318	6.849	10/4/2023	7.1	No	22	7.084	0.1009	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-MW-6	6.244	5.871	10/3/2023	6.3	Yes	23	6.057	0.08086	0	None	No	0.0002894	Param Intra 1 of 2
pH, Field (pH)	MR-AP-PZ-5	8.671	7.622	10/4/2023	8.35	No	23	8.147	0.2274	0	None	No	0.0002894	Param Intra 1 of 2

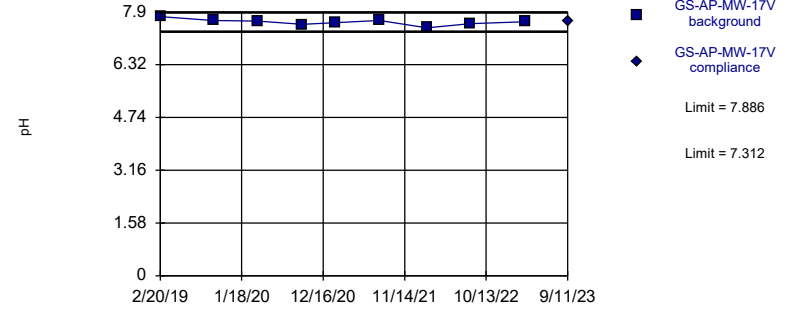
Prediction Limit Intrawell Parametric, GS-AP-MW-13 (bg)



Background Data Summary: Mean=6.762, Std. Dev.=0.06353, n=13. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.934, critical = 0.866. Kappa = 2.656 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787. Assumes 1 future value.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
 Plant Miller Data: Miller Ash Pond

Within Limits Prediction Limit Intrawell Parametric

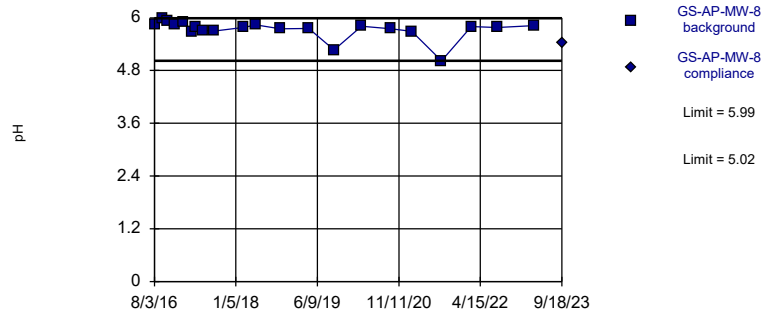


Background Data Summary: Mean=7.599, Std. Dev.=0.09239, n=9. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.9727, critical = 0.859. Kappa = 3.11 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
 Plant Miller Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

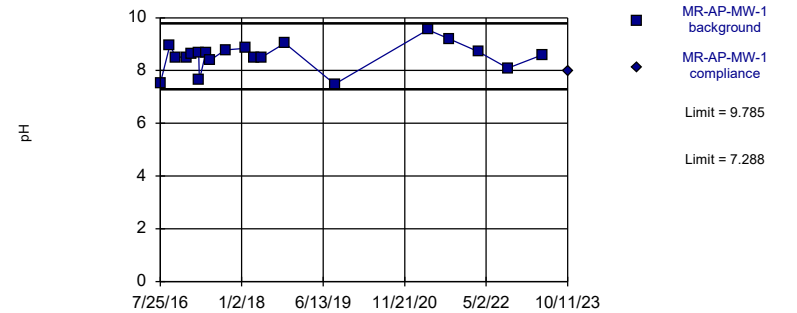


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 21 background values. Well-constituent pair annual alpha = 0.01596. Individual comparison alpha = 0.007998 (1 of 2).

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
 Plant Miller Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

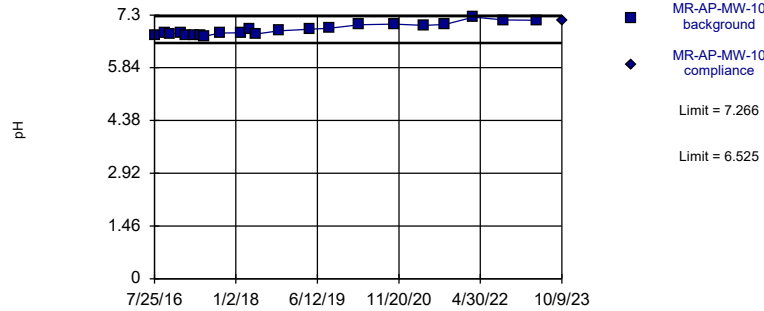


Background Data Summary: Mean=8.537, Std. Dev.=0.529, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9242, critical = 0.868. Kappa = 2.361 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
 Plant Miller Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

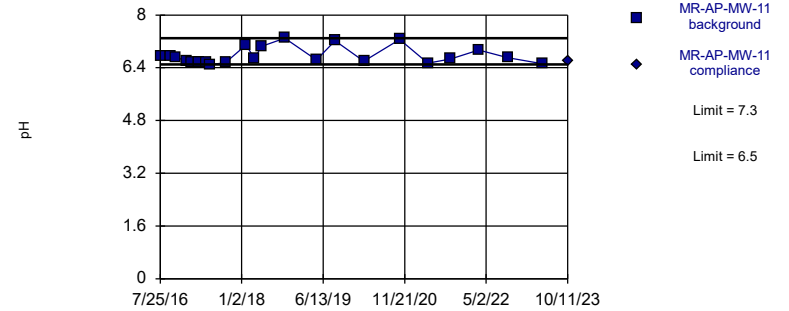


Background Data Summary: Mean=6.895, Std. Dev.=0.1593, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.878. Kappa = 2.324 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
 Plant Miller Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

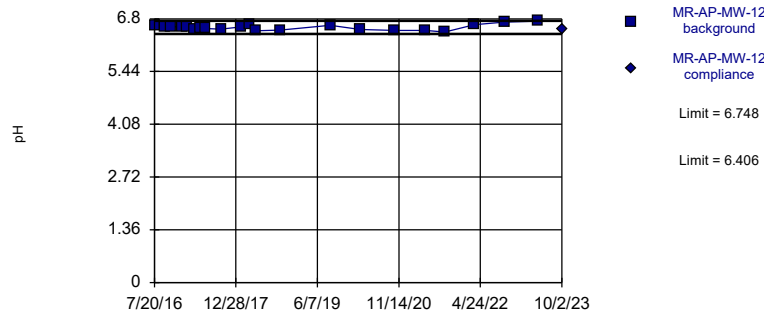


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 23 background values. Well-constituent pair annual alpha = 0.01364. Individual comparison alpha = 0.006831 (1 of 2).

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
 Plant Miller Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

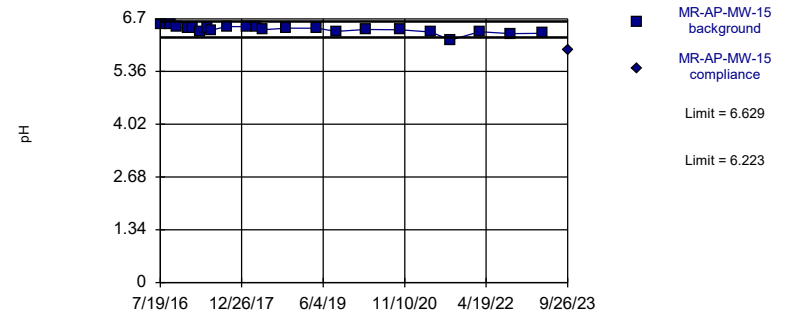


Background Data Summary: Mean=6.577, Std. Dev.=0.07297, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9633, critical = 0.873. Kappa = 2.342 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
 Plant Miller Data: Miller Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

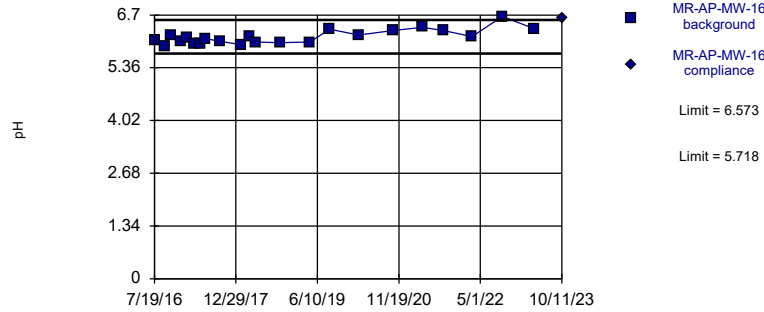


Background Data Summary: Mean=6.426, Std. Dev.=0.08721, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9099, critical = 0.878. Kappa = 2.324 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
 Plant Miller Data: Miller Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

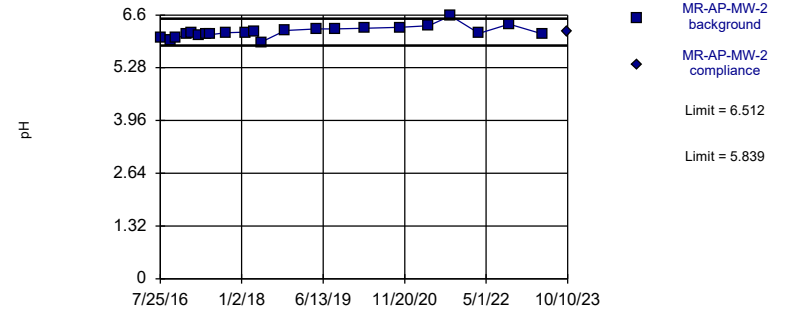


Background Data Summary: Mean=6.146, Std. Dev.=0.1839, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9074, critical = 0.878. Kappa = 2.324 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
Plant Miller Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

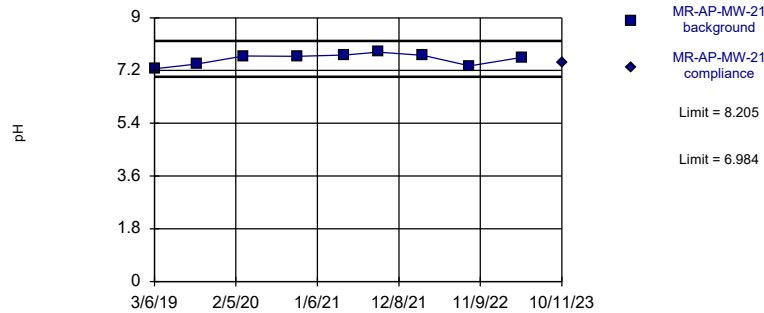


Background Data Summary: Mean=6.175, Std. Dev.=0.1446, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9534, critical = 0.878. Kappa = 2.324 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
Plant Miller Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

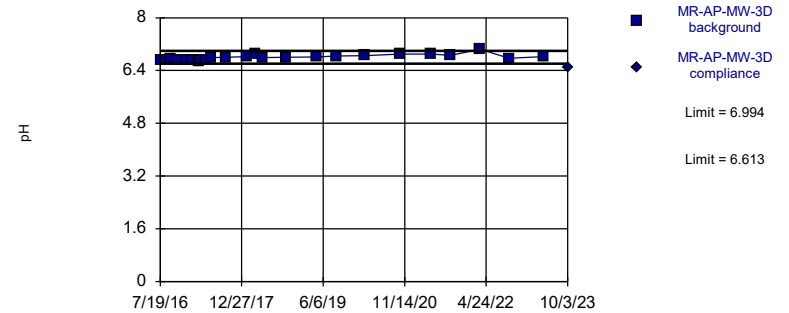


Background Data Summary: Mean=7.594, Std. Dev.=0.1963, n=9. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.8756, critical = 0.859. Kappa = 3.11 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
Plant Miller Data: Miller Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

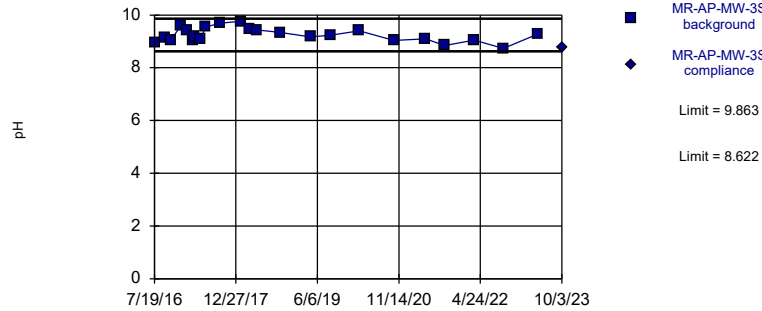


Background Data Summary: Mean=6.803, Std. Dev.=0.08277, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9337, critical = 0.881. Kappa = 2.306 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
Plant Miller Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

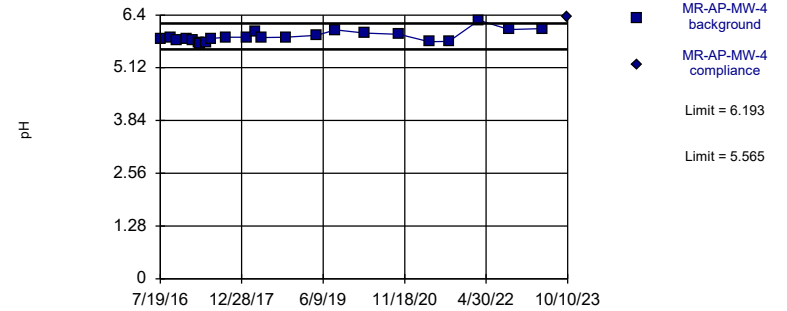


Background Data Summary: Mean=9.243, Std. Dev.=0.2691, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9765, critical = 0.881. Kappa = 2.306 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
Plant Miller Data: Miller Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

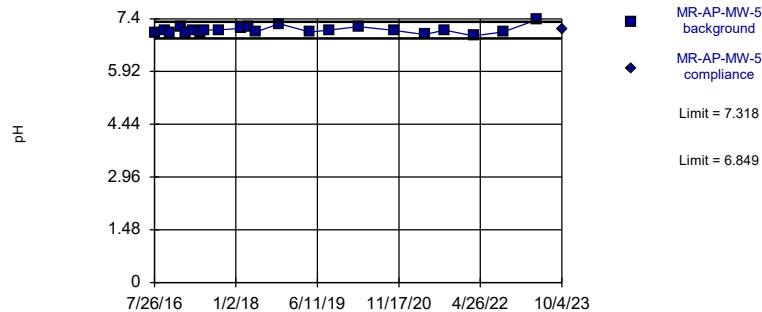


Background Data Summary: Mean=5.879, Std. Dev.=0.1362, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9137, critical = 0.881. Kappa = 2.306 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
Plant Miller Data: Miller Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

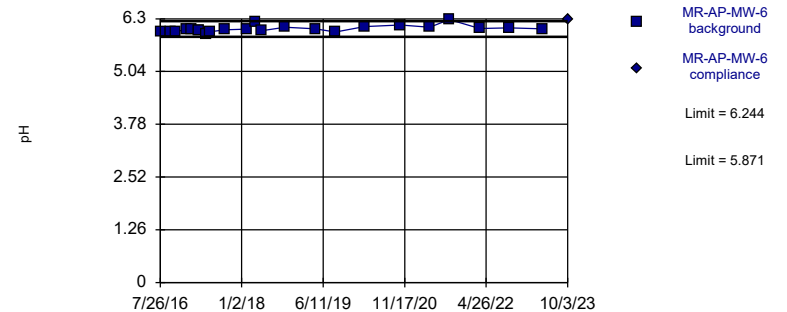


Background Data Summary: Mean=7.084, Std. Dev.=0.1009, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9174, critical = 0.878. Kappa = 2.324 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
Plant Miller Data: Miller Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric



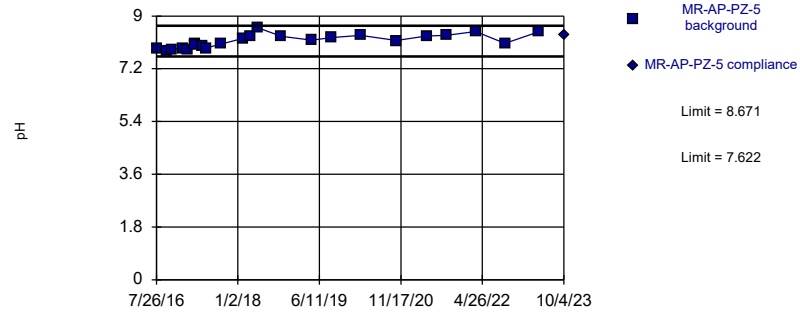
Background Data Summary: Mean=6.057, Std. Dev.=0.08086, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9088, critical = 0.881. Kappa = 2.306 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
Plant Miller Data: Miller Ash Pond

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.147, Std. Dev.=0.2274, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9533, critical = 0.881. Kappa = 2.306 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005787.

Constituent: pH, Field Analysis Run 12/19/2023 1:49 PM View: Appendix III - Intrawell
Plant Miller Data: Miller Ash Pond

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

GS-AP-MW-13

8/2/2016	6.8
9/20/2016	6.8
10/25/2016	6.85
12/13/2016	6.8
2/8/2017	6.76
3/29/2017	6.76
4/26/2017	6.71
6/7/2017	6.71
8/22/2017	6.84
2/20/2018	6.77
5/15/2018	6.8
10/17/2018	6.67 (D)
4/16/2019	6.64

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	GS-AP-MW-17V	GS-AP-MW-17V
2/20/2019	7.76	
9/24/2019	7.65	
3/25/2020	7.63	
9/23/2020	7.53	
2/2/2021	7.58	
8/2/2021	7.65	
2/14/2022	7.43	
8/9/2022	7.55	
3/22/2023	7.61	
9/11/2023		7.61

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	GS-AP-MW-8	GS-AP-MW-8
8/3/2016	5.84	
9/21/2016	5.99	
10/25/2016	5.94	
12/13/2016	5.84	
2/6/2017	5.9	
3/28/2017	5.67	
4/24/2017	5.79	
6/7/2017	5.71	
8/21/2017	5.7	
2/19/2018	5.78	
5/15/2018	5.84	
10/16/2018	5.75 (D)	
4/16/2019	5.76	
9/24/2019	5.27	
3/18/2020	5.81	
9/21/2020	5.75	
2/2/2021	5.69	
8/10/2021	5.02	
2/16/2022	5.8	
8/2/2022	5.78	
3/27/2023	5.82	
9/18/2023		5.42

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-1
7/25/2016	7.52	
9/26/2016	8.96	
11/2/2016	8.51	
1/11/2017	8.5	
2/13/2017	8.63	
3/30/2017	8.67	
4/3/2017	7.63	
5/15/2017	8.67	
6/14/2017	8.39	
9/19/2017	8.78	
1/29/2018	8.84	
3/27/2018	8.48 (D)	
5/9/2018	8.49	
10/9/2018	9.04	
5/1/2019	11.01 (o)	
8/27/2019	7.48	
3/9/2020	11.95 (o)	
10/19/2020	11.44 (o)	
4/20/2021	9.55	
9/8/2021	9.19	
3/15/2022	8.71	
9/19/2022	8.09	
5/2/2023	8.6	
10/11/2023		7.96

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-10	MR-AP-MW-10
7/25/2016	6.73	
9/27/2016	6.82	
10/31/2016	6.78	
1/11/2017	6.8	
2/14/2017	6.74	
4/6/2017	6.73	
5/17/2017	6.73	
6/13/2017	6.71	
9/21/2017	6.8	
1/31/2018	6.81	
3/28/2018	6.895 (D)	
5/10/2018	6.77	
10/8/2018	6.86	
4/24/2019	6.91	
8/29/2019	6.93	
3/9/2020	7.03	
10/19/2020	7.05	
5/3/2021	7.01	
9/15/2021	7.04	
3/17/2022	7.24	
9/26/2022	7.16	
5/3/2023	7.15	
10/9/2023		7.16

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-MW-11
7/25/2016	6.74	
9/27/2016	6.74	
11/1/2016	6.71	
1/12/2017	6.61	
2/13/2017	6.58	
3/30/2017	6.57	
4/4/2017	6.56	
5/16/2017	6.56	
6/14/2017	6.5	
9/19/2017	6.55	
1/30/2018	7.09	
3/27/2018	6.665 (D)	
5/8/2018	7.04	
10/9/2018	7.3	
5/1/2019	6.64	
8/28/2019	7.22	
3/3/2020	6.6	
10/20/2020	7.26	
4/21/2021	6.54	
9/14/2021	6.67	
3/16/2022	6.94	
9/20/2022	6.7	
5/3/2023	6.52	
10/11/2023		6.59

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-12
7/20/2016	6.63	
9/27/2016	6.59	
11/1/2016	6.6	
1/11/2017	6.59	
2/15/2017	6.59	
4/4/2017	6.54	
5/15/2017	6.56	
6/14/2017	6.55	
9/21/2017	6.53	
1/30/2018	6.59	
3/28/2018	6.645 (D)	
5/8/2018	6.49	
10/8/2018	6.51	
8/28/2019	6.63	
3/10/2020	6.52	
10/19/2020	6.5	
5/5/2021	6.5	
9/7/2021	6.46	
3/17/2022	6.65	
9/26/2022	6.71	
5/3/2023	6.74	
10/2/2023		6.53

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-15	MR-AP-MW-15
7/19/2016	6.55	
9/26/2016	6.55	
10/31/2016	6.49	
1/9/2017	6.46	
2/14/2017	6.47	
4/4/2017	6.38	
5/16/2017	6.46	
6/12/2017	6.41	
9/19/2017	6.5	
1/31/2018	6.5	
3/28/2018	6.49 (D)	
5/7/2018	6.42	
10/9/2018	6.46	
4/24/2019	6.46	
8/28/2019	6.38	
3/4/2020	6.43	
10/13/2020	6.42	
4/26/2021	6.36	
9/1/2021	6.16	
3/9/2022	6.37	
9/20/2022	6.32	
4/19/2023	6.33	
9/26/2023		5.89

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-16	MR-AP-MW-16
7/19/2016	6.07	
9/26/2016	5.91	
10/31/2016	6.19	
1/9/2017	6.03	
2/14/2017	6.13	
4/3/2017	5.97	
5/16/2017	5.97	
6/12/2017	6.1	
9/19/2017	6.03	
1/30/2018	5.95	
3/28/2018	6.14 (D)	
5/7/2018	6.01	
10/9/2018	6	
4/24/2019	6.01	
8/28/2019	6.34	
3/3/2020	6.19	
10/13/2020	6.31	
4/21/2021	6.39	
9/1/2021	6.31	
3/8/2022	6.15	
9/20/2022	6.66	
4/19/2023	6.35	
10/11/2023		6.63

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-2	MR-AP-MW-2
7/25/2016	6.03	
9/28/2016	5.96	
11/1/2016	6.02	
1/11/2017	6.11	
2/14/2017	6.16	
4/4/2017	6.1	
5/16/2017	6.12	
6/14/2017	6.11	
9/20/2017	6.16	
1/30/2018	6.17	
3/27/2018	6.19 (D)	
5/9/2018	5.92	
10/9/2018	6.21	
5/1/2019	6.25	
8/27/2019	6.25	
3/3/2020	6.27	
10/21/2020	6.29	
4/26/2021	6.33	
9/14/2021	6.58	
3/16/2022	6.14	
9/26/2022	6.37	
5/2/2023	6.12	
10/10/2023		6.18

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-21	MR-AP-MW-21
3/6/2019	7.26	
8/28/2019	7.42	
3/9/2020	7.7	
10/13/2020	7.68	
4/28/2021	7.73	
9/14/2021	7.83	
3/17/2022	7.72	
9/26/2022	7.36	
5/2/2023	7.65	
10/11/2023		7.49

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-3D	MR-AP-MW-3D
7/19/2016	6.72	
9/26/2016	6.76	
10/31/2016	6.72	
1/9/2017	6.73	
2/13/2017	6.73	
3/29/2017	6.68	
4/3/2017	6.73	
5/16/2017	6.71	
6/12/2017	6.79	
9/20/2017	6.8	
1/29/2018	6.82	
3/27/2018	6.91 (D)	
5/10/2018	6.79	
10/9/2018	6.8	
4/29/2019	6.81	
8/27/2019	6.84	
3/3/2020	6.85	
10/13/2020	6.9	
5/5/2021	6.9	
9/7/2021	6.86	
3/16/2022	7.04	
9/19/2022	6.77	
5/2/2023	6.82	
10/3/2023		6.5

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-3S	MR-AP-MW-3S
7/19/2016	8.95	
9/26/2016	9.13	
10/31/2016	9.04	
1/9/2017	9.62	
2/13/2017	9.43	
3/29/2017	9.04	
4/3/2017	9.18	
5/16/2017	9.11	
6/12/2017	9.54	
9/20/2017	9.69	
1/29/2018	9.76	
3/27/2018	9.475 (D)	
5/10/2018	9.44	
10/9/2018	9.34	
4/22/2019	9.17	
8/27/2019	9.23	
3/3/2020	9.4	
10/13/2020	9.04	
5/5/2021	9.1	
9/7/2021	8.84	
3/16/2022	9.05	
9/19/2022	8.73	
5/2/2023	9.28	
10/3/2023		8.76

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-4
7/19/2016	5.82	
9/27/2016	5.85	
11/1/2016	5.79	
1/9/2017	5.83	
2/13/2017	5.78	
3/30/2017	5.73	
4/4/2017	5.7	
5/16/2017	5.72	
6/12/2017	5.83	
9/20/2017	5.86	
1/29/2018	5.86	
3/27/2018	6 (D)	
5/9/2018	5.85	
10/8/2018	5.86	
4/29/2019	5.91	
8/27/2019	6.04	
3/4/2020	5.96	
10/14/2020	5.93	
4/26/2021	5.75	
9/1/2021	5.76	
3/15/2022	6.27	
9/26/2022	6.05	
5/2/2023	6.07	
10/10/2023		6.36

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-5	MR-AP-MW-5
7/26/2016	7.01	
9/28/2016	7.06	
11/2/2016	7.02	
1/10/2017	7.17	
2/14/2017	7.01	
4/3/2017	7.09	
5/17/2017	7	
6/12/2017	7.08	
9/18/2017	7.09	
1/31/2018	7.13	
3/27/2018	7.175 (D)	
5/9/2018	7.03	
10/8/2018	7.26	
4/23/2019	7.03	
8/28/2019	7.08	
3/2/2020	7.18	
10/21/2020	7.07	
5/3/2021	6.96	
9/8/2021	7.08	
3/14/2022	6.92	
9/20/2022	7.03	
4/25/2023	7.37	
10/4/2023		7.1

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - IntraWell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-6	MR-AP-MW-6
7/26/2016	5.98	
9/28/2016	6	
11/1/2016	6	
1/9/2017	6.04	
2/13/2017	6.04	
3/29/2017	6.01	
4/3/2017	6.02	
5/16/2017	5.92	
6/12/2017	5.99	
9/18/2017	6.04	
1/31/2018	6.05	
3/27/2018	6.23 (D)	
5/9/2018	6.01	
10/8/2018	6.1	
4/23/2019	6.06	
8/28/2019	5.98	
3/3/2020	6.11	
10/20/2020	6.15	
4/28/2021	6.1	
9/1/2021	6.28	
3/16/2022	6.07	
9/21/2022	6.08	
4/25/2023	6.06	
10/3/2023		6.3

Prediction Limit

Constituent: pH, Field (pH) Analysis Run 12/19/2023 1:53 PM View: Appendix III - Intravel
Plant Miller Data: Miller Ash Pond

	MR-AP-PZ-5	MR-AP-PZ-5
7/26/2016	7.88	
9/28/2016	7.8	
11/2/2016	7.86	
1/12/2017	7.9	
2/13/2017	7.86	
3/30/2017	8.06	
4/3/2017	8	
5/17/2017	7.99	
6/12/2017	7.91	
9/18/2017	8.04	
1/31/2018	8.23	
3/27/2018	8.33 (D)	
5/9/2018	8.6	
10/8/2018	8.31	
4/23/2019	8.18	
8/29/2019	8.26	
3/2/2020	8.34	
10/21/2020	8.16	
5/3/2021	8.32	
9/8/2021	8.34	
3/14/2022	8.47	
9/20/2022	8.07	
4/25/2023	8.46	
10/4/2023		8.35

FIGURE G.

Appendix III - Interwell Prediction Limits - Significant Results

Plant Miller Data: Miller Ash Pond Printed 12/15/2023, 2:11 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MR-AP-MW-10	0.1015	n/a	10/9/2023	7.06	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-12	0.1015	n/a	10/2/2023	5.12	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-15	0.1015	n/a	9/26/2023	2.31	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-16	0.1015	n/a	10/11/2023	2.63	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-2	0.1015	n/a	10/10/2023	0.173	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3D	0.1015	n/a	10/3/2023	0.299	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-3S	0.1015	n/a	10/3/2023	0.239	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-4	0.1015	n/a	10/10/2023	0.446	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-5	0.1015	n/a	10/4/2023	1.02	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-MW-6	0.1015	n/a	10/3/2023	0.573	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Boron, total (mg/L)	MR-AP-PZ-5	0.1015	n/a	10/4/2023	0.255	Yes	53	n/a	n/a	35.85	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-1	63.9	n/a	10/11/2023	217	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-10	63.9	n/a	10/9/2023	194	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-11	63.9	n/a	10/11/2023	209	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-15	63.9	n/a	9/26/2023	82.2	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-16	63.9	n/a	10/11/2023	169	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-2	63.9	n/a	10/10/2023	278	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-3D	63.9	n/a	10/3/2023	114	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-4	63.9	n/a	10/10/2023	205	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-5	63.9	n/a	10/4/2023	215	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MR-AP-MW-6	63.9	n/a	10/3/2023	147	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-3S	21	n/a	10/3/2023	66.6	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-4	21	n/a	10/10/2023	21.4	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-5	21	n/a	10/4/2023	21.8	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-MW-6	21	n/a	10/3/2023	29	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MR-AP-PZ-5	21	n/a	10/4/2023	27.1	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-10	0.2995	n/a	10/9/2023	0.578	Yes	55	0.1545	0.06944	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-12	0.2995	n/a	10/2/2023	1.07	Yes	55	0.1545	0.06944	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-MW-5	0.2995	n/a	10/4/2023	0.397	Yes	55	0.1545	0.06944	0	None	No	0.0005787	Param Inter 1 of 2
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2995	n/a	10/4/2023	2.27	Yes	55	0.1545	0.06944	0	None	No	0.0005787	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-1	141	n/a	10/11/2023	555	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-10	141	n/a	10/9/2023	1410	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-11	141	n/a	10/11/2023	643	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-12	141	n/a	10/2/2023	493	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-15	141	n/a	9/26/2023	438	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-16	141	n/a	10/11/2023	499	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-2	141	n/a	10/10/2023	1530	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	141	n/a	10/3/2023	292	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-4	141	n/a	10/10/2023	429	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-5	141	n/a	10/4/2023	729	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MR-AP-MW-6	141	n/a	10/3/2023	426	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	552	n/a	10/9/2023	2410	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	552	n/a	10/11/2023	1040	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	552	n/a	9/26/2023	702	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	552	n/a	10/10/2023	2390	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	552	n/a	10/10/2023	796	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	552	n/a	10/4/2023	1200	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	552	n/a	10/4/2023	890	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

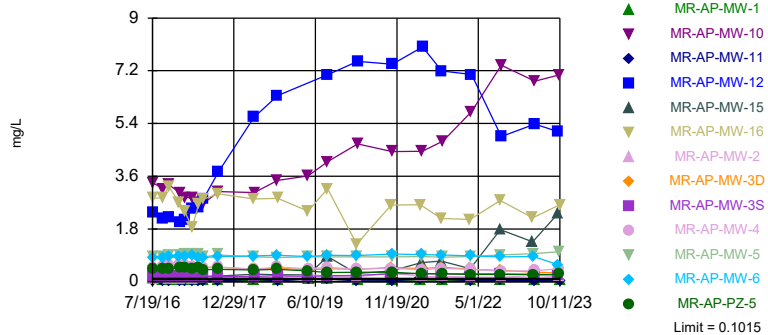
Plant Miller Data: Miller Ash Pond Printed 12/15/2023, 2:11 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	552	n/a	11/1/2023	0.9508	No	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	552	n/a	9/26/2023	702	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	552	n/a	11/1/2023	0.77	No	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	552	n/a	10/10/2023	2390	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	552	n/a	11/1/2023	0.69	No	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	552	n/a	11/1/2023	0.74	No	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	552	n/a	10/10/2023	796	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	552	n/a	10/4/2023	1200	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	552	n/a	11/1/2023	0.64	No	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	552	n/a	10/4/2023	890	Yes	53	n/a	n/a	0	n/a	n/a	0.0006605	NP Inter (normality) 1 of 2

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

Exceeds Limit: MR-AP-MW-10, MR-AP-MW-12, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-3S,...

Prediction Limit
Interwell Non-parametric



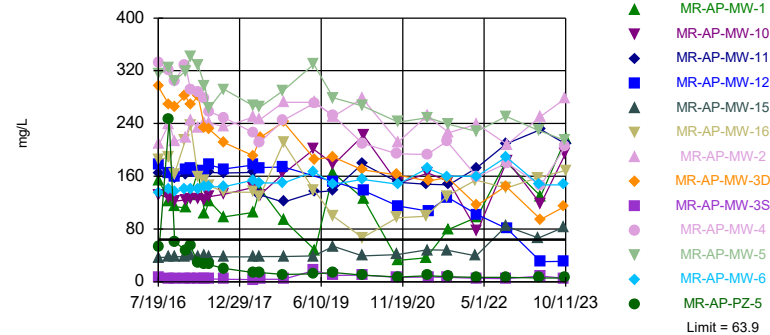
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. 35.85% NDs. Annual per-constituent alpha = 0.01703. Individual comparison alpha = 0.0006605 (1 of 2). Comparing 13 points to limit.

Constituent: Boron, total Analysis Run 12/15/2023 2:07 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

Sanitas™ v.10.0.15 . UG

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2, MR-AP-MW-3D,...

Prediction Limit
Interwell Non-parametric



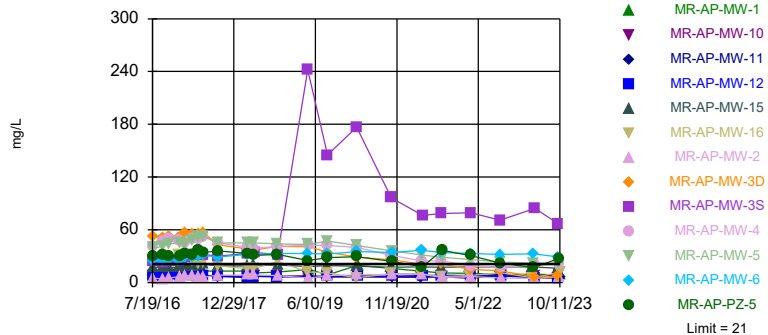
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. Annual per-constituent alpha = 0.01703. Individual comparison alpha = 0.0006605 (1 of 2). Comparing 13 points to limit.

Constituent: Calcium, total Analysis Run 12/15/2023 2:07 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

Sanitas™ v.10.0.15 . UG

Exceeds Limit: MR-AP-MW-3S, MR-AP-MW-4, MR-AP-MW-5, MR-AP-MW-6, MR-AP-PZ-5

Prediction Limit
Interwell Non-parametric



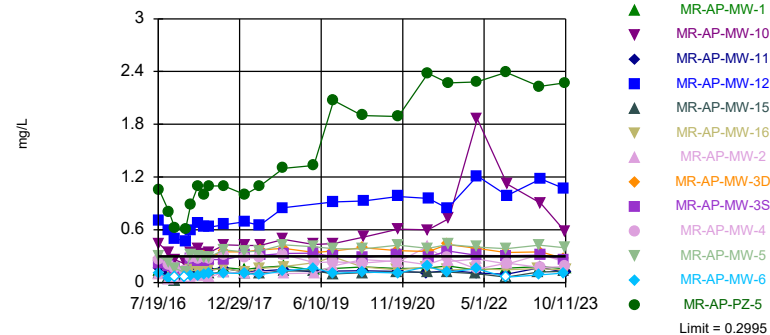
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. Annual per-constituent alpha = 0.01703. Individual comparison alpha = 0.0006605 (1 of 2). Comparing 13 points to limit.

Constituent: Chloride, Total Analysis Run 12/15/2023 2:07 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

Exceeds Limit: MR-AP-MW-10, MR-AP-MW-12, MR-AP-MW-5, MR-AP-PZ-5

Prediction Limit
Interwell Parametric

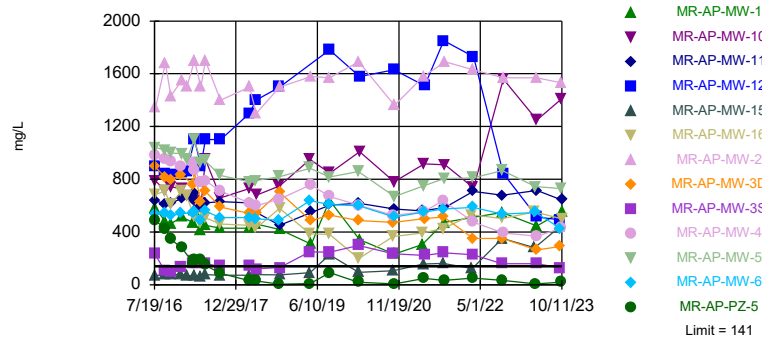


Background Data Summary: Mean=0.1545, Std. Dev.=0.06944, n=55. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.97, critical = 0.94. Kappa = 2.088 (c=7, w=13, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005787. Comparing 13 points to limit.

Constituent: Fluoride, total Analysis Run 12/15/2023 2:07 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-1, MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-12, MR-AP-MW-15, MR-AP-MW-16, MR-AP-MW-2,...

Prediction Limit
Interwell Non-parametric

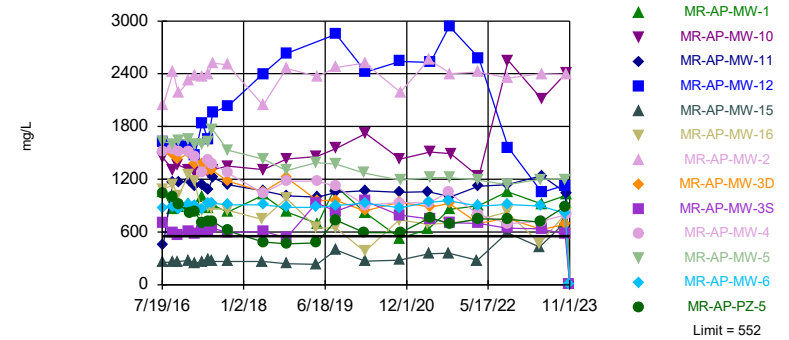


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. Annual per-constituent alpha = 0.01703. Individual comparison alpha = 0.0006605 (1 of 2). Comparing 13 points to limit.

Constituent: Sulfate as SO4 Analysis Run 12/15/2023 2:08 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

Exceeds Limit: MR-AP-MW-10, MR-AP-MW-11, MR-AP-MW-15, MR-AP-MW-2, MR-AP-MW-4, MR-AP-MW-5, MR-AP-PZ-5

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. Annual per-constituent alpha = 0.01703. Individual comparison alpha = 0.0006605 (1 of 2). Comparing 13 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/15/2023 2:08 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-3S	MR-AP-MW-4	MR-AP-MW-3D	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-1	MR-AP-MW-10
7/19/2016	0.15	2.86	0.195	0.496	0.527				
7/20/2016						2.36			
7/25/2016							0.0922 (J)	0.0978 (J)	3.36
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016	0.175	2.86	0.179		0.54			0.0625 (J)	
9/27/2016				0.514		2.14			3.18
9/28/2016							0.126		
10/25/2016									
10/31/2016	0.204	3.25	0.19		0.586				3.32
11/1/2016				0.571		2.21	0.0959 (J)		
11/2/2016								0.067 (J)	
12/13/2016									
1/9/2017	0.192	2.71	0.196	0.572	0.584				
1/10/2017									
1/11/2017						2.04	0.0976 (J)	0.0588 (J)	3.05
1/12/2017									
2/6/2017									
2/8/2017									
2/13/2017			0.187	0.565	0.567			0.0561 (J)	
2/14/2017	0.161	2.39					0.147		2.87
2/15/2017						2.12			
3/28/2017									
3/29/2017									
4/3/2017		1.86	0.192		0.527			0.0631 (J)	
4/4/2017	0.147			0.536		2.51	0.121		
4/6/2017									2.87
4/24/2017									
4/26/2017									
5/15/2017						2.54		0.0636 (J)	
5/16/2017	0.168	2.67	0.178	0.482	0.477		0.167		
5/17/2017									2.71
6/7/2017									
6/12/2017	0.18	2.81	0.181	0.478	0.491				
6/13/2017									2.67
6/14/2017						2.83	0.159	0.0603 (J)	
8/21/2017									
8/22/2017									
9/18/2017									
9/19/2017	0.192	3						0.0559 (J)	
9/20/2017			0.188	0.506	0.505		0.148		
9/21/2017						3.76			3.08
5/7/2018	0.258	2.83							
5/8/2018						5.61			
5/9/2018				0.433			0.145	0.0437 (J)	
5/10/2018			0.183		0.425				3.04
5/15/2018									
10/8/2018				0.503		6.35			3.46
10/9/2018	0.237	2.85	0.202		0.471		0.15	0.0559 (J)	

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-3S	MR-AP-MW-4	MR-AP-MW-3D	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-1	MR-AP-MW-10
10/16/2018									
10/17/2018									
2/20/2019									
3/6/2019									
4/16/2019									
4/22/2019			0.183 (J)						
4/23/2019									
4/24/2019	0.243	2.41							3.61
4/29/2019				0.444	0.407				
5/1/2019							0.24	<0.1015	
8/27/2019			0.209	0.495	0.443		0.192	0.0869 (J)	
8/28/2019	0.863	3.18				7.06			
8/29/2019									4.1
9/24/2019									
3/2/2020									
3/3/2020		1.29	0.217		0.422		0.167		
3/4/2020	0.285			0.431					
3/9/2020								0.0747 (J)	4.7
3/10/2020						7.52			
3/18/2020									
3/25/2020									
9/21/2020									
9/23/2020									
10/13/2020	0.375	2.62	0.271		0.492				
10/14/2020				0.46					
10/19/2020						7.42		0.0512 (J)	4.44
10/20/2020									
10/21/2020							0.316		
2/2/2021									
4/20/2021								0.0653 (J)	
4/21/2021		2.63							
4/26/2021	0.651			0.412			0.173		
4/28/2021									
5/3/2021									4.45
5/5/2021			0.281		0.451	8.01			
8/2/2021									
8/10/2021									
9/1/2021	0.705	2.16		0.46					
9/7/2021			0.276		0.499	7.19			
9/8/2021								0.0505 (J)	
9/14/2021							0.188		
9/15/2021									4.8
2/14/2022									
2/16/2022									
3/8/2022		2.13							
3/9/2022	0.445								
3/14/2022									
3/15/2022				0.423				0.0528 (J)	
3/16/2022			0.276		0.428		0.165		
3/17/2022						7.07			5.81
8/2/2022									
8/9/2022									

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-3S	MR-AP-MW-4	MR-AP-MW-3D	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-1	MR-AP-MW-10
9/19/2022			0.272		0.389			0.0597 (J)	
9/20/2022	1.78	2.77							
9/21/2022									
9/26/2022				0.36		4.96	0.153		7.39
3/22/2023									
3/27/2023									
4/19/2023	1.36	2.18							
4/25/2023									
5/2/2023			0.245	0.382	0.324		0.216	0.0572 (J)	
5/3/2023						5.38			6.84
9/11/2023									
9/18/2023									
9/26/2023	2.31								
10/2/2023						5.12			
10/3/2023			0.239		0.299				
10/4/2023									
10/9/2023									7.06
10/10/2023				0.446			0.173		
10/11/2023		2.63						0.0595 (J)	

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-MW-6	MR-AP-PZ-5	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	0.0282 (J)							
7/26/2016		0.835	0.434	0.873				
8/2/2016					0.1			
8/3/2016						0.0239 (J)		
9/20/2016					0.1			
9/21/2016						0.1		
9/26/2016								
9/27/2016	0.0253 (J)							
9/28/2016		0.807	0.454	0.857				
10/25/2016					0.1	0.1		
10/31/2016								
11/1/2016	0.0266 (J)	0.838						
11/2/2016			0.46	0.909				
12/13/2016					0.1	0.1		
1/9/2017		0.848						
1/10/2017				0.915				
1/11/2017								
1/12/2017	0.0268 (J)		0.471					
2/6/2017						0.1		
2/8/2017					0.1			
2/13/2017	0.0263 (J)	0.869	0.473					
2/14/2017				0.932				
2/15/2017								
3/28/2017						0.1		
3/29/2017					0.1			
4/3/2017		0.881	0.424	0.932				
4/4/2017	0.0252 (J)							
4/6/2017								
4/24/2017						0.1		
4/26/2017					0.1			
5/15/2017								
5/16/2017	0.0319 (J)	0.81						
5/17/2017			0.462	0.953				
6/7/2017					<0.1015	<0.1015		
6/12/2017		0.832	0.418	0.854				
6/13/2017								
6/14/2017	0.026 (J)							
8/21/2017						<0.1015		
8/22/2017					<0.1015			
9/18/2017		0.864	0.428	0.921				
9/19/2017	0.0253 (J)							
9/20/2017								
9/21/2017								
5/7/2018								
5/8/2018	<0.1015							
5/9/2018		0.878	0.406	0.851				
5/10/2018								
5/15/2018					<0.1015	<0.1015		
10/8/2018		0.905	0.42	0.833				
10/9/2018	0.0262 (J)							

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-MW-6	MR-AP-PZ-5	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
10/16/2018						<0.1015		
10/17/2018					<0.1015			
2/20/2019							0.0337 (J)	
3/6/2019								0.0619 (J)
4/16/2019					<0.1015	<0.1015		
4/22/2019								
4/23/2019		0.862	0.372	0.849				
4/24/2019								
4/29/2019								
5/1/2019	<0.1015							
8/27/2019								
8/28/2019	<0.1015	0.906		0.852				0.0879 (J)
8/29/2019			0.319					
9/24/2019						<0.1015	0.0532 (J)	
3/2/2020			0.328	0.851				
3/3/2020	0.0308 (J)	0.895						
3/4/2020								
3/9/2020								0.101
3/10/2020								
3/18/2020						<0.1015		
3/25/2020							0.0482 (J)	
9/21/2020						<0.1015		
9/23/2020							0.0478 (J)	
10/13/2020								0.0973 (J)
10/14/2020								
10/19/2020								
10/20/2020	0.0357 (J)	0.947						
10/21/2020			0.328	0.847				
2/2/2021						<0.1015	0.0396 (J)	
4/20/2021								
4/21/2021	<0.1015							
4/26/2021								
4/28/2021		0.923						0.0976 (J)
5/3/2021			0.271	0.864				
5/5/2021								
8/2/2021							0.0368 (J)	
8/10/2021						<0.1015		
9/1/2021		0.918						
9/7/2021								
9/8/2021			0.271	0.843				
9/14/2021	<0.1015							0.0892 (J)
9/15/2021								
2/14/2022							0.0386 (J)	
2/16/2022						<0.1015		
3/8/2022								
3/9/2022								
3/14/2022			0.245	0.864				
3/15/2022								
3/16/2022	0.0357 (J)	0.887						
3/17/2022								0.089 (J)
8/2/2022						<0.1015		
8/9/2022							0.0418 (J)	

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-11	MR-AP-MW-6	MR-AP-PZ-5	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
9/19/2022								
9/20/2022	0.0457 (J)		0.251	0.915				
9/21/2022		0.851						
9/26/2022								0.0869 (J)
3/22/2023						0.0379 (J)		
3/27/2023					<0.1015			
4/19/2023								
4/25/2023		0.865	0.249	0.961				
5/2/2023								0.0986 (J)
5/3/2023	0.0402 (J)							
9/11/2023						0.0388 (J)		
9/18/2023					<0.1015			
9/26/2023								
10/2/2023								
10/3/2023		0.573						
10/4/2023			0.255	1.02				
10/9/2023								
10/10/2023								
10/11/2023	0.033 (J)							0.0915 (J)

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
10/8/2018	245					174			164
10/9/2018		3.78	242	211	38.2		272	121	
10/16/2018									
10/17/2018									
2/20/2019									
3/6/2019									
4/16/2019									
4/22/2019		16.8							
4/23/2019									
4/24/2019				139	39				201
4/29/2019	271		186						
5/1/2019							272	136	
8/27/2019	252	9.68	189				251		
8/28/2019				99.5	53.8	152		138	
8/29/2019									178
9/24/2019									
3/2/2020									
3/3/2020		9.94	170	66.8			278	179	
3/4/2020	210				39.3				
3/9/2020									222
3/10/2020						138			
3/18/2020									
3/25/2020									
9/21/2020									
9/23/2020									
10/13/2020		6.81	162	96.9	41.4				
10/14/2020	194								
10/19/2020						115			149
10/20/2020								151	
10/21/2020							212		
2/2/2021									
4/20/2021									
4/21/2021				99.3				148	
4/26/2021	193				48.3 (RA)		252		
4/28/2021									
5/3/2021									165
5/5/2021		7.04	153			107 (RA)			
8/2/2021									
8/10/2021									
9/1/2021	213			130	47.8				
9/7/2021		6.69	158			128			
9/8/2021									
9/14/2021							226	147	
9/15/2021									152
2/14/2022									
2/16/2022									
3/8/2022				154					
3/9/2022					39.1				
3/14/2022									
3/15/2022	159								
3/16/2022		5.38	116				239	173	
3/17/2022						102			76.4

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
8/2/2022									
8/9/2022									
9/19/2022		4.9	145						
9/20/2022				142	84.599998			209	
9/21/2022									
9/26/2022	180					80.699997	208		184
3/22/2023									
3/27/2023									
4/19/2023				158	66.400002				
4/25/2023									
5/2/2023	146	8.78	94.5				251		
5/3/2023						30.299999		231	118
9/11/2023									
9/18/2023									
9/26/2023					82.199997				
10/2/2023						31.200001			
10/3/2023		5.03	114						
10/4/2023									
10/9/2023									194
10/10/2023	205						278		
10/11/2023				169				209	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-5	MR-AP-MW-6	MR-AP-PZ-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	153							
7/26/2016		315	135	52.8				
8/2/2016					47.2			
8/3/2016						6.85		
9/20/2016					46.3			
9/21/2016						11.7		
9/26/2016	122							
9/27/2016								
9/28/2016		324	141	246.4				
10/25/2016					46.6	10.8		
10/31/2016								
11/1/2016			137					
11/2/2016	114	305		61.3				
12/13/2016					43.1	5.86		
1/9/2017			140					
1/10/2017		319						
1/11/2017	112							
1/12/2017				47.7				
2/6/2017						9.76		
2/8/2017					47.5			
2/13/2017	132		141	54				
2/14/2017		341						
2/15/2017								
3/28/2017						5.28		
3/29/2017					46.8			
4/3/2017	168	329	141	28.7				
4/4/2017								
4/6/2017								
4/24/2017						6.89		
4/26/2017					48.1			
5/15/2017	104							
5/16/2017			145					
5/17/2017		296		26.7				
6/7/2017					44.4	3.58		
6/12/2017		263	144	26.3				
6/13/2017								
6/14/2017	122							
8/21/2017						3.38		
8/22/2017					42.9			
9/18/2017		292	144	20.2				
9/19/2017	98.6							
9/20/2017								
9/21/2017								
3/27/2018	105	267	154	13.9				
3/28/2018								
5/7/2018								
5/8/2018								
5/9/2018	141	265	150	13.8				
5/10/2018								
5/15/2018					44.3	4.25		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
10/8/2018	41					6.9			7.4
10/9/2018		32	41	24	20		8	6.5	
10/16/2018									
10/17/2018									
2/20/2019									
3/6/2019									
4/16/2019									
4/22/2019		242							
4/23/2019									
4/24/2019				11.9	18.3				7.66
4/29/2019	42.4		40.7						
5/1/2019							5.04	6.46	
8/27/2019	42.3	145	34.7				7.95		
8/28/2019				10.8	19.3	7.27		6.4	
8/29/2019									6.65
9/24/2019									
3/2/2020									
3/3/2020		177	29.1	5.33			8.59	6.2	
3/4/2020	40.1				18.5				
3/9/2020									7.47
3/10/2020						7.52			
3/18/2020									
3/25/2020									
9/21/2020									
9/23/2020									
10/13/2020		96.3	25.9	10	17.5				
10/14/2020	30.8								
10/19/2020						7.33			6.03
10/20/2020								6.33	
10/21/2020							9.47		
2/2/2021									
4/20/2021									
4/21/2021				10.3				5.99	
4/26/2021	24.8				17.9		9.31		
4/28/2021									
5/3/2021									6.38
5/5/2021		76.5	21			8.01			
8/2/2021									
8/10/2021									
9/1/2021	24.6			6.87	17.5				
9/7/2021		78.6	21.2			8.14			
9/8/2021									
9/14/2021							5.88	6.33	
9/15/2021									6.39
2/14/2022									
2/16/2022									
3/8/2022				7.81					
3/9/2022					17.6				
3/14/2022									
3/15/2022	19								
3/16/2022		79.4	15				6.88	7.08	
3/17/2022						8.05			4.75

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
8/2/2022									
8/9/2022									
9/19/2022		70.900002	13.3						
9/20/2022				11.4	17.700001			7.52	
9/21/2022									
9/26/2022	17.299999					7.51	5.2		8.6
3/22/2023									
3/27/2023									
4/19/2023				5.39	17.9				
4/25/2023									
5/2/2023	19.6	84.300003	6.52				4.85		
5/3/2023						5.56		6.53	7.08
9/11/2023									
9/18/2023									
9/26/2023					16.4				
10/2/2023						5.08			
10/3/2023		66.599998	6.99						
10/4/2023									
10/9/2023									8.66
10/10/2023	21.4						6.83		
10/11/2023				11.7				6.13	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-5	MR-AP-MW-6	MR-AP-PZ-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	14.1							
7/26/2016		39.1	24.8	30.5				
8/2/2016					2.91			
8/3/2016						3.21		
9/20/2016					2.94			
9/21/2016						2.95		
9/26/2016	13.3							
9/27/2016								
9/28/2016		40.9	24.9	31.1				
10/25/2016					2.94	3.03		
10/31/2016								
11/1/2016			26					
11/2/2016	12.1	44.1		30.2				
12/13/2016					2.93	3.21		
1/9/2017			25.1					
1/10/2017		45.2						
1/11/2017	11.6							
1/12/2017				29.8				
2/6/2017						3		
2/8/2017					2.85			
2/13/2017	14		28	33				
2/14/2017		44						
2/15/2017								
3/28/2017						3.3 (D)		
3/29/2017					3.4 (D)			
4/3/2017	11	48	29	32				
4/4/2017								
4/6/2017								
4/24/2017						3.8 (D)		
4/26/2017					3.7 (D)			
5/15/2017	13							
5/16/2017			30					
5/17/2017		53		37				
6/7/2017					3.3	3.5		
6/12/2017		53	31	34				
6/13/2017								
6/14/2017	13							
8/21/2017						3.6		
8/22/2017					3.4			
9/18/2017		45	29	36				
9/19/2017	13							
9/20/2017								
9/21/2017								
3/27/2018	13	45	32	33				
3/28/2018								
5/7/2018								
5/8/2018								
5/9/2018	11	45	32	31				
5/10/2018								
5/15/2018					3.2	3.3		

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
7/19/2016	0.217 (J)	0.268 (J)	0.252 (J)	0.194 (J)	0.111 (J)				
7/20/2016						0.701			
7/25/2016							0.094 (J)	0.155 (J)	0.439
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016	0.192 (J)	0.213 (J)		0.158 (J)	0.069 (J)				
9/27/2016			0.209 (J)			0.597		0.097 (J)	0.336
9/28/2016							0.035 (J)		
10/25/2016									
10/31/2016	0.157 (J)	0.158 (J)		0.068 (J)	0.018 (J)				0.26 (J)
11/1/2016			0.163 (J)			0.502	<0.125	0.038 (J)	
11/2/2016									
12/13/2016									
1/9/2017	0.115 (J)	0.109 (J)	0.13 (J)	<0.125	<0.125				
1/10/2017									
1/11/2017						0.472	<0.125		0.21 (J)
1/12/2017								<0.125	
2/6/2017									
2/8/2017									
2/13/2017	0.27	0.29	0.28					0.13	
2/14/2017				0.14	0.1		0.05 (J)		0.34
2/15/2017						0.59			
3/28/2017									
3/29/2017									
4/3/2017	0.25	0.28		0.13					
4/4/2017			0.27		0.1	0.67	0.07 (J)	0.14	
4/6/2017									0.38
4/24/2017									
4/26/2017									
5/15/2017						0.63			
5/16/2017	0.24	0.3	0.28	0.13	0.1		0.07 (J)	0.14	
5/17/2017									0.33
6/7/2017									
6/12/2017	0.26	0.29	0.27	0.14	0.1				
6/13/2017									0.34
6/14/2017						0.63	0.06 (J)	0.14	
8/21/2017									
8/22/2017									
9/18/2017									
9/19/2017				0.16	0.12			0.16	
9/20/2017	0.26	0.35	0.31				0.12		
9/21/2017						0.66			0.43
1/29/2018	0.31	0.35	0.28						
1/30/2018						0.69			
1/31/2018					0.1				0.42
2/1/2018				0.12			0.1	0.12	
2/19/2018									
2/20/2018									
5/7/2018				0.16	0.11				

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
5/8/2018						0.65		0.13	
5/9/2018			0.28				0.13		
5/10/2018	0.31	0.37							0.42
5/15/2018									
10/8/2018			0.32			0.85			0.49
10/9/2018	0.33	0.39		0.18	0.13		0.1	0.15	
10/16/2018									
10/17/2018									
2/20/2019									
3/6/2019									
4/16/2019									
4/22/2019	0.335								
4/23/2019									
4/24/2019				0.225	0.133				0.433
4/29/2019		0.343	0.226						
5/1/2019							0.108	0.118	
8/27/2019	0.294	0.361	0.237				0.19		
8/28/2019				0.29	0.0974 (J)	0.916		0.13	
8/29/2019									0.445
9/24/2019									
3/2/2020									
3/3/2020	0.286	0.397		0.179			0.262	0.134	
3/4/2020			0.221		0.111				
3/9/2020									0.517
3/10/2020						0.929			
3/18/2020									
3/25/2020									
9/21/2020									
9/23/2020									
10/13/2020	0.311	0.362		0.145	0.125				
10/14/2020			0.251						
10/19/2020						0.978			0.608
10/20/2020								0.126	
10/21/2020							0.236		
2/2/2021									
4/20/2021									
4/21/2021				0.173				0.111	
4/26/2021			0.204		0.117		0.406		
4/28/2021									
5/3/2021									0.599
5/5/2021	0.291	0.351				0.958			
8/2/2021									
8/10/2021									
9/1/2021			0.281	0.14	0.118				
9/7/2021	0.361	0.433				0.843			
9/8/2021									
9/14/2021							0.24	0.136	
9/15/2021									0.727
2/14/2022									
2/16/2022									
3/8/2022				0.155					
3/9/2022					0.103 (J)				

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
3/14/2022									
3/15/2022			0.154						
3/16/2022	0.309	0.388					0.268	0.107 (J)	
3/17/2022						1.21			1.86
8/2/2022									
8/9/2022									
9/19/2022	0.304	0.341							
9/20/2022				0.145	<0.125			0.0923 (J)	
9/21/2022									
9/26/2022			0.22			0.989	0.211		1.12
3/22/2023									
3/27/2023									
4/19/2023				0.16	0.119 (J)				
4/25/2023									
5/2/2023	0.311	0.348	0.17				0.321		
5/3/2023						1.18		0.172	0.902
9/11/2023									
9/18/2023									
9/26/2023					0.128				
10/2/2023						1.07			
10/3/2023	0.264	0.272							
10/4/2023									
10/9/2023									0.578
10/10/2023			0.182				0.232		
10/11/2023				0.141				0.117 (J)	

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-5	MR-AP-MW-6	MR-AP-PZ-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	0.134 (J)							
7/26/2016		0.296 (J)	0.108 (J)	1.05				
8/2/2016					0.161 (J)			
8/3/2016						0.125 (J)		
9/20/2016					0.122 (J)			
9/21/2016						0.098 (J)		
9/26/2016	0.061 (J)							
9/27/2016								
9/28/2016		0.224 (J)	0.054 (J)	0.799				
10/25/2016					0.058 (J)	0.025 (J)		
10/31/2016								
11/1/2016			<0.125					
11/2/2016	0.024 (J)	0.164 (J)		0.627				
12/13/2016					0.072 (J)	0.045 (J)		
1/9/2017			<0.125					
1/10/2017		0.114 (J)						
1/11/2017	<0.125							
1/12/2017				0.609				
2/6/2017						0.1 (D)		
2/8/2017					0.16 (D)			
2/13/2017	0.13		0.08 (J)	0.88				
2/14/2017		0.31						
2/15/2017								
3/28/2017						0.08 (JD)		
3/29/2017					0.14 (D)			
4/3/2017	0.15	0.3	0.07 (J)	1.1				
4/4/2017								
4/6/2017								
4/24/2017						0.09 (JD)		
4/26/2017					0.16 (D)			
5/15/2017	0.14							
5/16/2017			0.09 (J)					
5/17/2017		0.29		1				
6/7/2017					0.15	0.08 (J)		
6/12/2017		0.29	0.1	1.1				
6/13/2017								
6/14/2017	0.15							
8/21/2017						0.08 (J)		
8/22/2017					0.18			
9/18/2017		0.37	0.11	1.1				
9/19/2017	0.17							
9/20/2017								
9/21/2017								
1/29/2018								
1/30/2018								
1/31/2018								
2/1/2018	0.15	0.35	0.1	1				
2/19/2018						0.08 (J)		
2/20/2018					0.17			
5/7/2018								

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-5	MR-AP-MW-6	MR-AP-PZ-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
3/14/2022		0.405		2.28				
3/15/2022	0.142							
3/16/2022			0.155					
3/17/2022								0.127
8/2/2022						0.0815 (J)		
8/9/2022							0.245	
9/19/2022	0.164							
9/20/2022		0.384		2.39				
9/21/2022			<0.125					
9/26/2022								0.158
3/22/2023							0.198	
3/27/2023						0.112 (J)		
4/19/2023								
4/25/2023		0.424	0.0863 (J)	2.23				
5/2/2023	0.181							0.223
5/3/2023								
9/11/2023							0.278	
9/18/2023						0.106 (J)		
9/26/2023								
10/2/2023								
10/3/2023			0.108 (J)					
10/4/2023		0.397		2.27				
10/9/2023								
10/10/2023								
10/11/2023	0.156							0.145

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
10/8/2018	650					1500			750
10/9/2018		130	700	580	76		1500	450	
10/16/2018									
10/17/2018									
2/20/2019									
3/6/2019									
4/16/2019									
4/22/2019		249							
4/23/2019									
4/24/2019				385	91.9				950
4/29/2019	758		484						
5/1/2019							1580	549	
8/27/2019	670	248	529				1570		
8/28/2019				384	227	1780		605	
8/29/2019									847
9/24/2019									
3/2/2020									
3/3/2020		298	488	198			1690	618	
3/4/2020	604				93.9				
3/9/2020									1010
3/10/2020						1580			
3/18/2020									
3/25/2020									
9/21/2020									
9/23/2020									
10/13/2020		236	473	366	107				
10/14/2020	527								
10/19/2020						1630			781
10/20/2020								575	
10/21/2020							1360		
2/2/2021									
4/20/2021									
4/21/2021				392				559	
4/26/2021	554				157		1580		
4/28/2021									
5/3/2021									917
5/5/2021		224	501			1510			
8/2/2021									
8/10/2021									
9/1/2021	637			427	163				
9/7/2021		243	513			1850			
9/8/2021									
9/14/2021							1690	588	
9/15/2021									910
2/14/2022									
2/16/2022									
3/8/2022				530					
3/9/2022					123				
3/14/2022									
3/15/2022	475								
3/16/2022		227	352				1630	707	
3/17/2022						1730			735

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-3D	MR-AP-MW-16	MR-AP-MW-15	MR-AP-MW-12	MR-AP-MW-2	MR-AP-MW-11	MR-AP-MW-10
8/2/2022									
8/9/2022									
9/19/2022		159	352						
9/20/2022				503	352			678	
9/21/2022									
9/26/2022	393					845	1570		1560
3/22/2023									
3/27/2023									
4/19/2023				553	281				
4/25/2023									
5/2/2023	368	161	264				1570		
5/3/2023						513		716	1250
9/11/2023									
9/18/2023									
9/26/2023					438				
10/2/2023						493			
10/3/2023		129	292						
10/4/2023									
10/9/2023									1410
10/10/2023	429						1530		
10/11/2023				499				643	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-5	MR-AP-MW-6	MR-AP-PZ-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	585							
7/26/2016		1040	532	487				
8/2/2016					12			
8/3/2016						4.2		
9/20/2016					11.2			
9/21/2016						4.27		
9/26/2016	480							
9/27/2016								
9/28/2016		1020	540	422				
10/25/2016					10.1	2.78		
10/31/2016								
11/1/2016			521					
11/2/2016	462	1000		345				
12/13/2016					11.4	3.18		
1/9/2017			543					
1/10/2017		995						
1/11/2017	515							
1/12/2017				281				
2/6/2017						3.74		
2/8/2017					10.9			
2/14/2017		950						
2/15/2017								
3/28/2017						3.4 (JD)		
3/29/2017			540		11 (D)			
3/30/2017	470			160				
4/3/2017	560	1100	550	190				
4/4/2017								
4/6/2017								
4/24/2017						2.7 (JD)		
4/26/2017					11 (D)			
5/15/2017	410							
5/16/2017			490					
5/17/2017		930		190				
6/7/2017					11	2.7 (J)		
6/12/2017		940	560	150				
6/13/2017								
6/14/2017	450							
8/21/2017						3.9 (J)		
8/22/2017					11			
9/18/2017		830	510	86				
9/19/2017	430							
9/20/2017								
9/21/2017								
3/27/2018	430	780	510	31				
3/28/2018								
5/7/2018								
5/8/2018								
5/9/2018	460	790	500	29				
5/10/2018								
5/15/2018					11	2.5 (J)		

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-5	MR-AP-MW-6	MR-AP-PZ-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
8/2/2022						4.18		
8/9/2022							8.13	
9/19/2022	548							
9/20/2022		866		34.599998				
9/21/2022			535					
9/26/2022								134
3/22/2023							10.6	
3/27/2023					4.41			
4/19/2023								
4/25/2023		744	549	6.92				
5/2/2023	445							141
5/3/2023								
9/11/2023							10.7	
9/18/2023						10.1		
9/26/2023								
10/2/2023								
10/3/2023			426					
10/4/2023		729		18.9				
10/9/2023								
10/10/2023								
10/11/2023	555							134

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-15	MR-AP-MW-3D	MR-AP-MW-16	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
7/19/2016	1520	704	255	1530	1080				
7/20/2016						1620			
7/25/2016							1060	1440	456
7/26/2016									
8/2/2016									
8/3/2016									
9/20/2016									
9/21/2016									
9/26/2016		594	259	1480	1140		852		
9/27/2016	1540					1560		1310	1170
9/28/2016									
10/25/2016									
10/31/2016		572	265	1430	1010			1360	
11/1/2016	1510					1580			1160
11/2/2016							888		
12/13/2016									
1/9/2017	1510	608	276	1500	1250				
1/10/2017									
1/11/2017						1570	920	1310	
1/12/2017									1180
2/6/2017									
2/8/2017									
2/13/2017	1460	584		1380			848		1130
2/14/2017			246		1180			1270	
2/15/2017						1470			
3/28/2017									
3/29/2017									
4/3/2017		606		1370	846		1000		
4/4/2017	1270		257			1840			1140
4/6/2017								1320	
4/24/2017									
4/26/2017									
5/15/2017						1660	870		
5/16/2017	1420	608	283	1300	880				1080
5/17/2017								1280	
6/7/2017									
6/12/2017	1380	644	266	1300	872				
6/13/2017								1310	
6/14/2017						1960	910		1220
8/21/2017									
8/22/2017									
9/18/2017									
9/19/2017			266		848		824		1140
9/20/2017	1270	592		1180					
9/21/2017						2030		1350	
5/7/2018			264		742				
5/8/2018						2400			1070
5/9/2018	1040						1020		
5/10/2018		606		1060				1310	
5/15/2018									
10/8/2018	1180 (D)					2630 (D)		1430 (D)	
10/9/2018		536 (D)	239 (D)	1220 (D)	982 (D)		830 (D)		1010 (D)

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-3S	MR-AP-MW-15	MR-AP-MW-3D	MR-AP-MW-16	MR-AP-MW-12	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11
9/19/2022		644		756			1060		
9/20/2022			594		826				1140
9/21/2022									
9/26/2022	694					1560		2550	
3/22/2023									
3/27/2023									
4/19/2023			428		472				
4/25/2023									
5/2/2023	724	638		630			920		
5/3/2023						1050		2110	1240
9/11/2023									
9/18/2023									
9/26/2023			702						
10/2/2023						1130			
10/3/2023		574		688					
10/4/2023									
10/9/2023								2410	
10/10/2023	796								
10/11/2023					820		1020		1040
11/1/2023		0.74 (D)		0.69 (D)	0.77 (D)	0.9508 (D)	1.654 (D)		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-2	MR-AP-PZ-5	MR-AP-MW-6	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
7/19/2016								
7/20/2016								
7/25/2016	2040							
7/26/2016		1040	868	1630				
8/2/2016					221			
8/3/2016						113		
9/20/2016					221			
9/21/2016						128		
9/26/2016								
9/27/2016								
9/28/2016	2420	1000	884	1600				
10/25/2016					226	121		
10/31/2016								
11/1/2016	2180		862					
11/2/2016		920		1640				
12/13/2016					211	101		
1/9/2017			918					
1/10/2017				1660				
1/11/2017	2320							
1/12/2017		812						
2/6/2017						108		
2/8/2017					212			
2/13/2017		832	896					
2/14/2017	2380			1600				
2/15/2017								
3/28/2017						91		
3/29/2017					217			
4/3/2017		710	852	1600				
4/4/2017	2360							
4/6/2017								
4/24/2017						89.3		
4/26/2017					202			
5/15/2017								
5/16/2017	2400		924					
5/17/2017		718		1630				
6/7/2017					218	84		
6/12/2017		724	928	1770				
6/13/2017								
6/14/2017	2520							
8/21/2017						91.3		
8/22/2017					224			
9/18/2017		616	908	1530				
9/19/2017								
9/20/2017	2500							
9/21/2017								
5/7/2018								
5/8/2018								
5/9/2018	2040	486	908	1430				
5/10/2018								
5/15/2018					209	94.7		
10/8/2018		464 (D)	882 (D)	1300 (D)				
10/9/2018	2460 (D)							

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/15/2023 2:11 PM View: Appendix III - Interwell
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-2	MR-AP-PZ-5	MR-AP-MW-6	MR-AP-MW-5	GS-AP-MW-13 (bg)	GS-AP-MW-8 (bg)	GS-AP-MW-17V ...	MR-AP-MW-21 (bg)
9/19/2022								
9/20/2022		746		1140				
9/21/2022			914					
9/26/2022	2350							459
3/22/2023						344		
3/27/2023					100			
4/19/2023								
4/25/2023		712	896	1200				
5/2/2023	2400							552
5/3/2023								
9/11/2023						338		
9/18/2023					91.300003			
9/26/2023								
10/2/2023								
10/3/2023			814					
10/4/2023		890		1200				
10/9/2023								
10/10/2023	2390							
10/11/2023								451
11/1/2023			0.64 (D)					

FIGURE H.

Appendix III - Trend Test Summary - Significant Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/21/2023, 3:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0	104	87	Yes	21	66.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-10	0.4814	133	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-12	0.8275	108	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-15	0.1007	159	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-2	0.01202	118	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22I (bg)	-0.01069	-24	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23A (bg)	-0.02233	-22	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3D	-0.03001	-135	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3S	0.01022	106	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-4	-0.02002	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-PZ-5	-0.03405	-158	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-15	1.891	146	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22S (bg)	24.54	22	21	Yes	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-3D	-25	-196	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-4	-24.62	-185	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-5	-14.31	-152	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-6	4.261	139	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1651	99	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3S	8.488	137	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-4	-4.498	-146	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-5	-3.221	-120	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-6	1.34	139	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-10	0.07867	165	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-12	0.0825	149	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-5	0.02382	140	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2579	173	92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-15	-0.03253	-162	-98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-16	0.06288	124	98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-3D	0.02865	124	105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-4	0.04206	137	105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-6	0.02346	140	105	Yes	24	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-10	60.3	104	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-15	15.45	154	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-16	-30.79	-96	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22D (bg)	72.46	22	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23A (bg)	19.05	24	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	-78.28	-187	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-4	-82.61	-191	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-5	-40.19	-147	-92	Yes	22	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	58.71	97	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	20.31	109	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	-71.72	-113	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	-124	-187	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	-123.7	-177	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	-81.26	-153	-87	Yes	21	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/21/2023, 3:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	GS-AP-MW-13 (bg)	5.9e-10	0	38	No	12	41.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-17V (bg)	-0.002694	-11	-30	No	10	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	GS-AP-MW-8 (bg)	0	104	87	Yes	21	66.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-10	0.4814	133	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-12	0.8275	108	81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-15	0.1007	159	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-16	-0.05613	-60	-87	No	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-2	0.01202	118	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-21 (bg)	0.0005097	5	30	No	10	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22D (bg)	-0.02029	-11	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22I (bg)	-0.01069	-24	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-22S (bg)	0.001805	4	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23 (bg)	-0.01881	-16	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-23A (bg)	-0.02233	-22	-21	Yes	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3D	-0.03001	-135	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-3S	0.01022	106	87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-4	-0.02002	-133	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-5	-0.0004523	-4	-87	No	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-MW-6	0.009523	66	87	No	21	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MR-AP-PZ-5	-0.03405	-158	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-13 (bg)	-2.607	-32	-38	No	12	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-17V (bg)	0.1203	4	30	No	10	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GS-AP-MW-8 (bg)	-0.2946	-47	-87	No	21	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-1	-3.396	-20	-92	No	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-10	7.294	88	92	No	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-11	2.792	41	92	No	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-15	1.891	146	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-16	-10.74	-77	-92	No	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-2	4.382	73	92	No	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-21 (bg)	1.088	13	30	No	10	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22D (bg)	0.3397	0	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22I (bg)	-0.497	-12	-21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-22S (bg)	24.54	22	21	Yes	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23 (bg)	4.113	8	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-23A (bg)	7.452	19	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-3D	-25	-196	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-4	-24.62	-185	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-5	-14.31	-152	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MR-AP-MW-6	4.261	139	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-13 (bg)	0.1178	10	38	No	12	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-17V (bg)	-0.2384	-29	-30	No	10	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GS-AP-MW-8 (bg)	0.1651	99	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-21 (bg)	0.03042	2	30	No	10	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22D (bg)	113.6	4	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22I (bg)	-25.59	-6	-21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-22S (bg)	10.75	3	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23 (bg)	59.42	10	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-23A (bg)	17.64	7	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-3S	8.488	137	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-4	-4.498	-146	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-5	-3.221	-120	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-MW-6	1.34	139	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MR-AP-PZ-5	-1.181	-81	-92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-13 (bg)	0.02914	48	43	Yes	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-17V (bg)	0.00066	3	30	No	10	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	GS-AP-MW-8 (bg)	0.002865	46	92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-10	0.07867	165	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-12	0.0825	149	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-21 (bg)	-0.01625	-13	-30	No	10	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22D (bg)	0.02344	5	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22I (bg)	-0.04005	-20	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-22S (bg)	-0.04231	-18	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23 (bg)	-0.01957	-16	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-23A (bg)	-0.01501	-9	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-MW-5	0.02382	140	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MR-AP-PZ-5	0.2579	173	92	Yes	22	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-13 (bg)	-0.05825	-34	-43	No	13	0	n/a	n/a	0.01	NP
pH, Field (pH)	GS-AP-MW-17V (bg)	-0.02446	-15	-30	No	10	0	n/a	n/a	0.01	NP

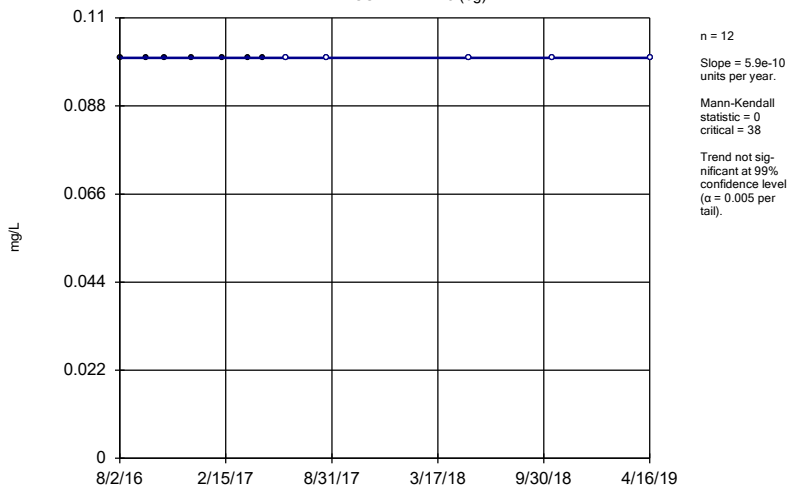
Appendix III - Trend Test Summary - All Results

Plant Miller Client: Southern Company Data: Miller Ash Pond Printed 12/21/2023, 3:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH, Field (pH)	GS-AP-MW-8 (bg)	-0.0333	-82	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-15	-0.03253	-162	-98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-16	0.06288	124	98	Yes	23	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-21 (bg)	0.02639	5	30	No	10	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22D (bg)	0.2547	14	21	No	8	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22I (bg)	0.1911	18	21	No	8	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-22S (bg)	0.03476	2	21	No	8	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-23 (bg)	-0.007032	-5	-21	No	8	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-23A (bg)	0.009483	2	21	No	8	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-3D	0.02865	124	105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-4	0.04206	137	105	Yes	24	0	n/a	n/a	0.01	NP
pH, Field (pH)	MR-AP-MW-6	0.02346	140	105	Yes	24	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-13 (bg)	0.01849	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-17V (bg)	-0.7	-15	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GS-AP-MW-8 (bg)	0.2514	63	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-1	-9.696	-34	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-10	60.3	104	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-11	-0.2997	-2	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-12	137.6	71	87	No	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-15	15.45	154	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-16	-30.79	-96	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-2	6.992	33	92	No	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-21 (bg)	5.054	20	30	No	10	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22D (bg)	72.46	22	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22I (bg)	-5.992	-14	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-22S (bg)	15.51	12	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23 (bg)	0.2373	8	21	No	8	12.5	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-23A (bg)	19.05	24	21	Yes	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-3D	-78.28	-187	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-4	-82.61	-191	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-5	-40.19	-147	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MR-AP-MW-6	1.86	18	92	No	22	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-13 (bg)	-7.182	-29	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-17V (bg)	-5.63	-17	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GS-AP-MW-8 (bg)	-1.421	-39	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-1	-3.21	-7	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-10	58.71	97	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-11	-8.116	-37	-87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-12	168.4	49	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-15	20.31	109	87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-16	-71.72	-113	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-2	12.37	42	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-21 (bg)	5.483	9	30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22D (bg)	-94.03	0	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22I (bg)	-57.63	-12	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-22S (bg)	60.31	14	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23 (bg)	21.54	6	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-23A (bg)	124.2	14	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3D	-124	-187	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-3S	8.697	33	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-4	-123.7	-177	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-5	-81.26	-153	-87	Yes	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-MW-6	3.145	25	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MR-AP-PZ-5	-21.26	-47	-87	No	21	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

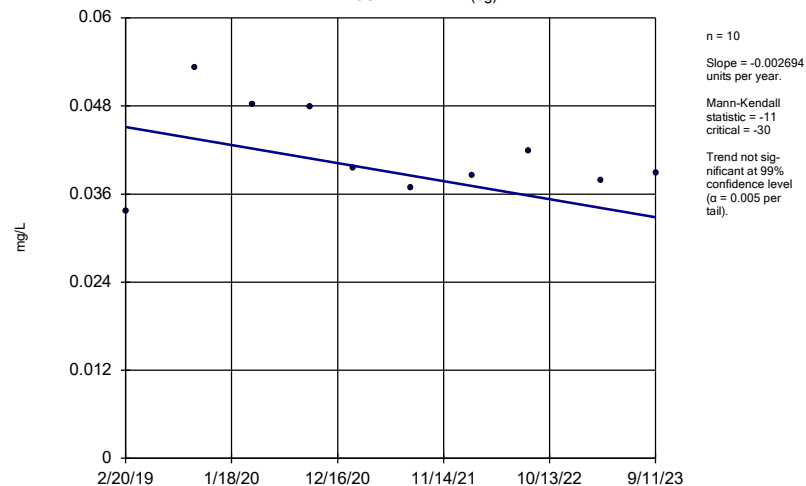
GS-AP-MW-13 (bg)



Constituent: Boron, total Analysis Run 12/21/2023 3:07 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

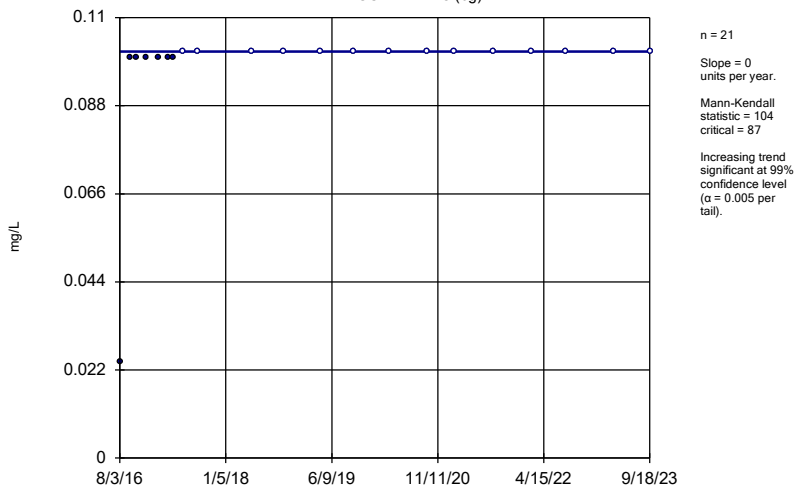
GS-AP-MW-17V (bg)



Constituent: Boron, total Analysis Run 12/21/2023 3:07 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

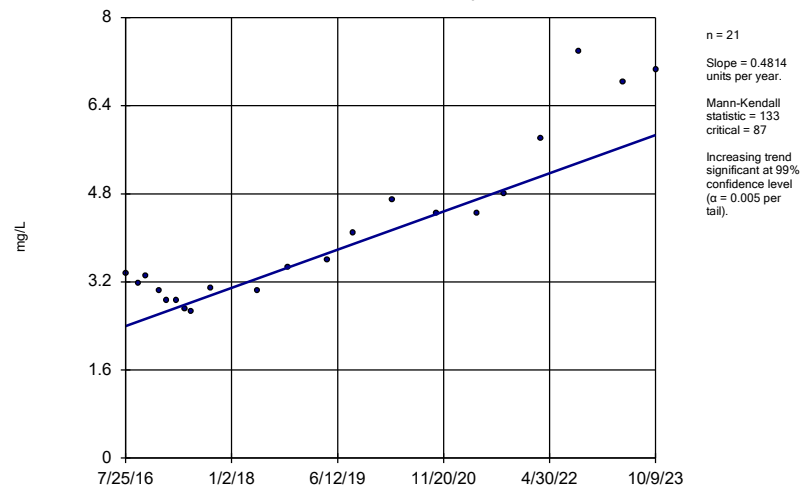
GS-AP-MW-8 (bg)



Constituent: Boron, total Analysis Run 12/21/2023 3:07 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

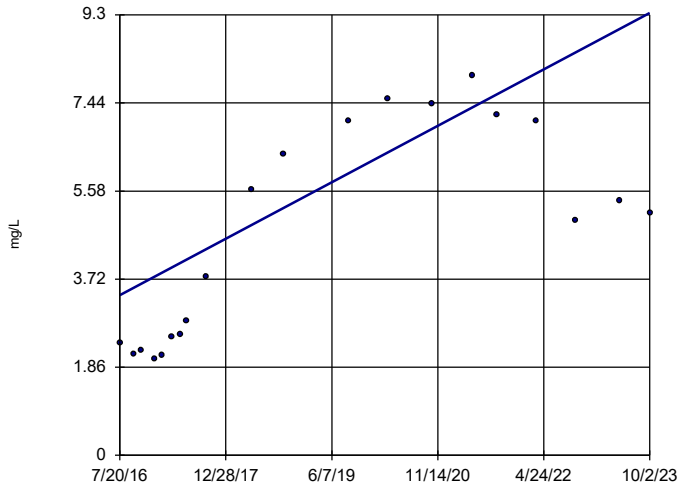
MR-AP-MW-10



Constituent: Boron, total Analysis Run 12/21/2023 3:07 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

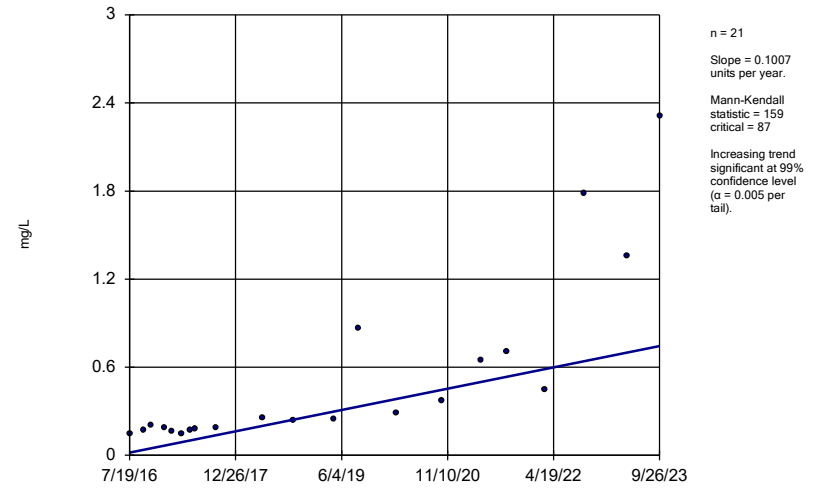
MR-AP-MW-12



Constituent: Boron, total Analysis Run 12/21/2023 3:07 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

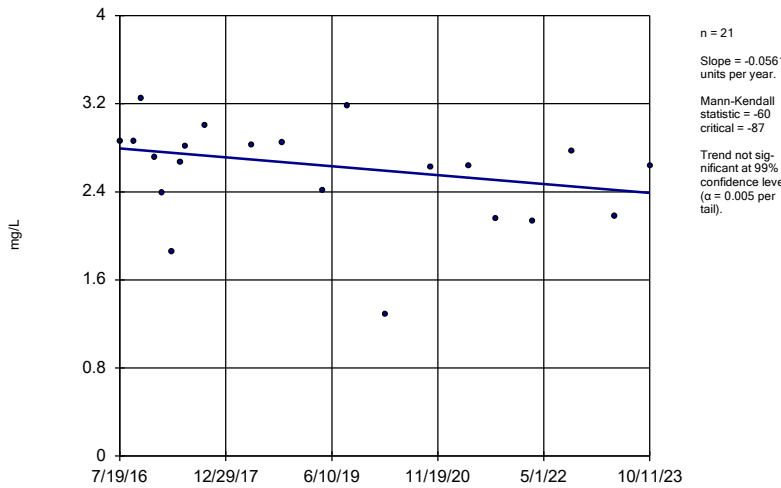
MR-AP-MW-15



Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

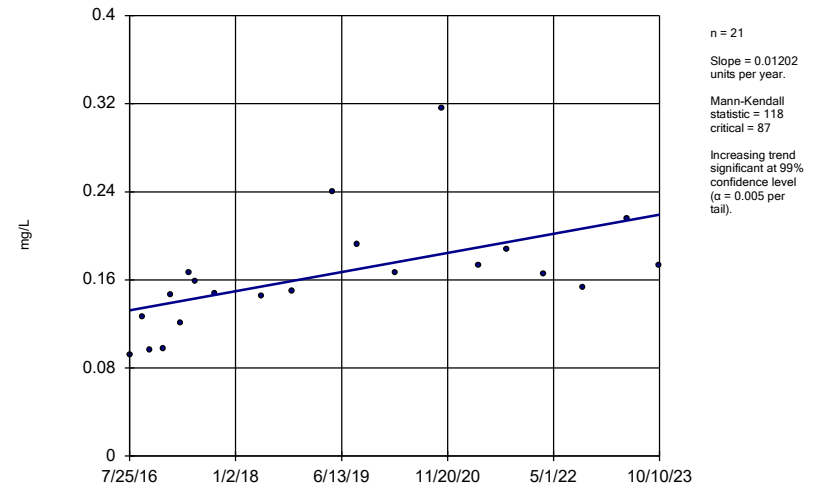
MR-AP-MW-16



Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

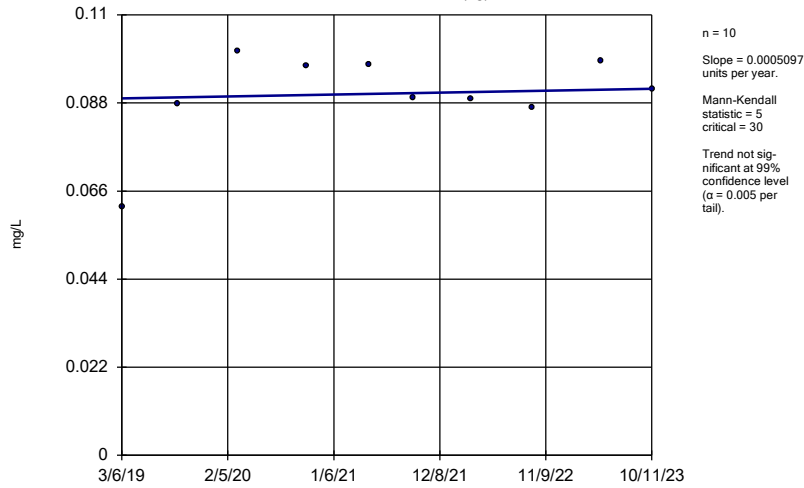
MR-AP-MW-2



Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

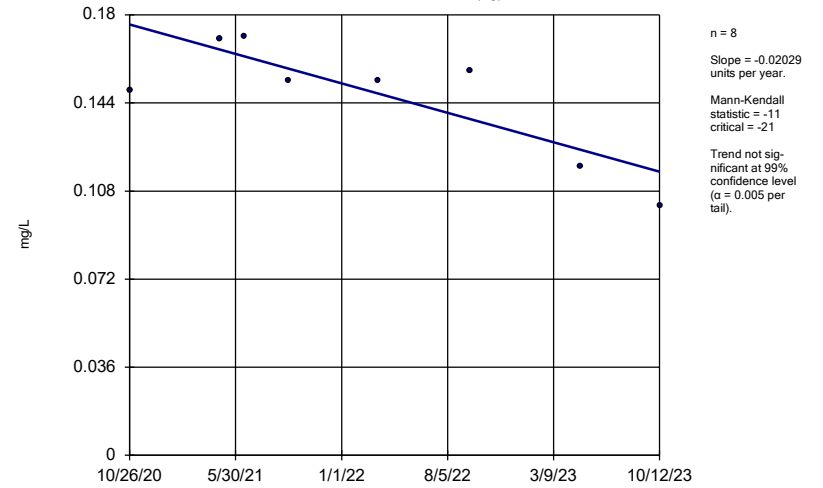
MR-AP-MW-21 (bg)



Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

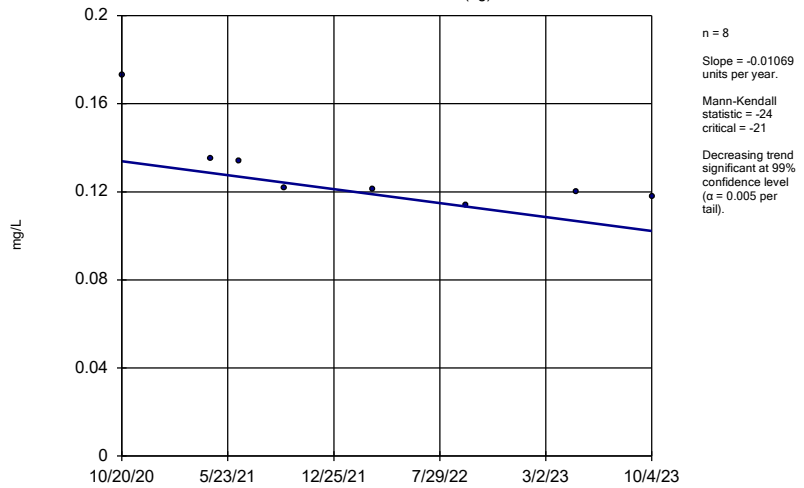
MR-AP-MW-22D (bg)



Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

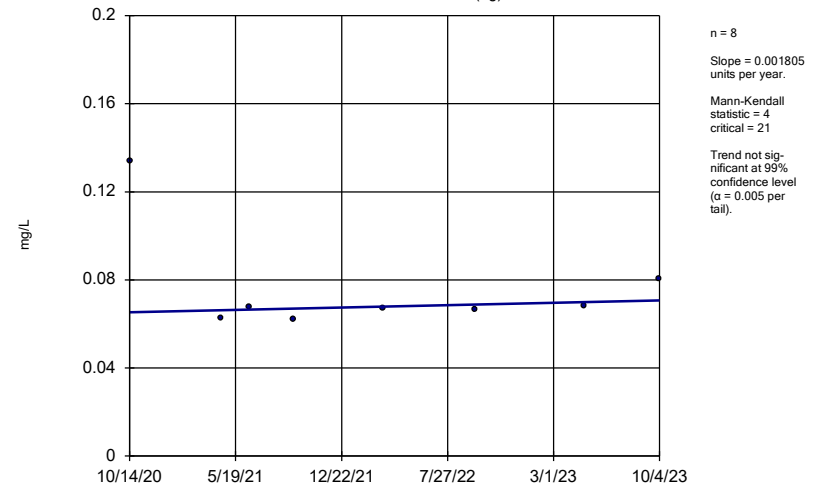
MR-AP-MW-22I (bg)



Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

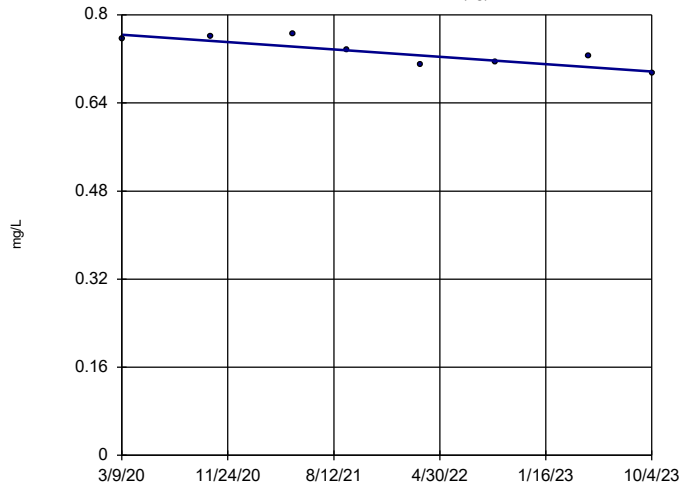
MR-AP-MW-22S (bg)



Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

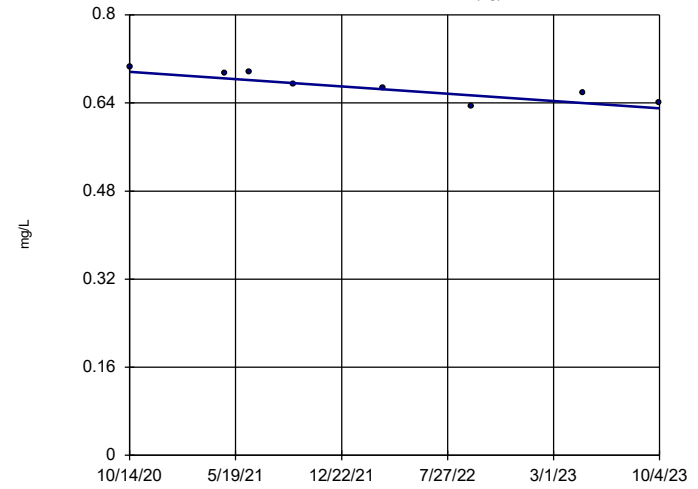


n = 8
 Slope = -0.01881 units per year.
 Mann-Kendall statistic = -16
 critical = -21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

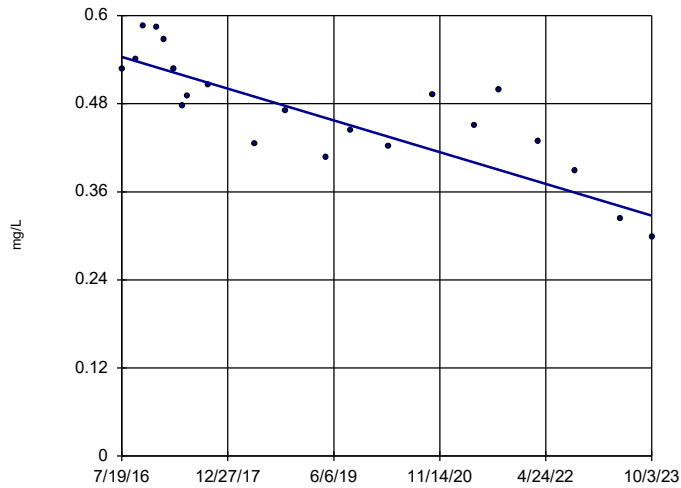


n = 8
 Slope = -0.02233 units per year.
 Mann-Kendall statistic = -22
 critical = -21
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

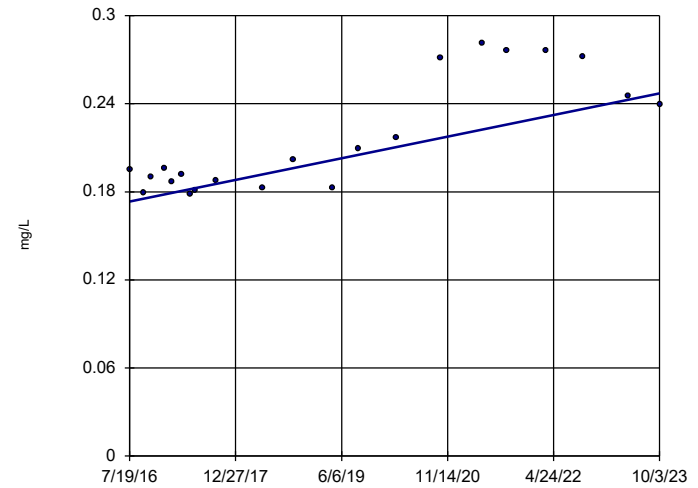


n = 21
 Slope = -0.03001 units per year.
 Mann-Kendall statistic = -135
 critical = -87
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3S

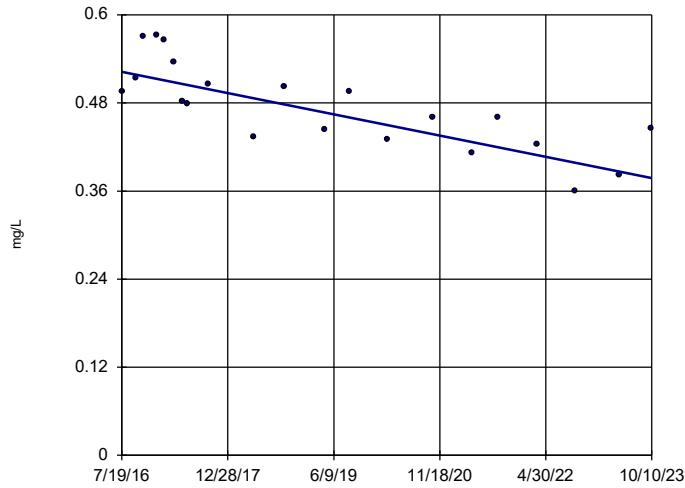


n = 21
 Slope = 0.01022 units per year.
 Mann-Kendall statistic = 106
 critical = 87
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

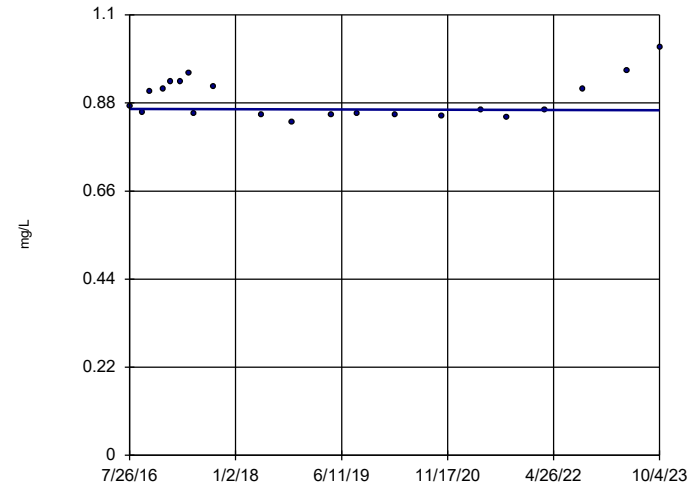


n = 21
 Slope = -0.02002
 units per year.
 Mann-Kendall
 statistic = -133
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

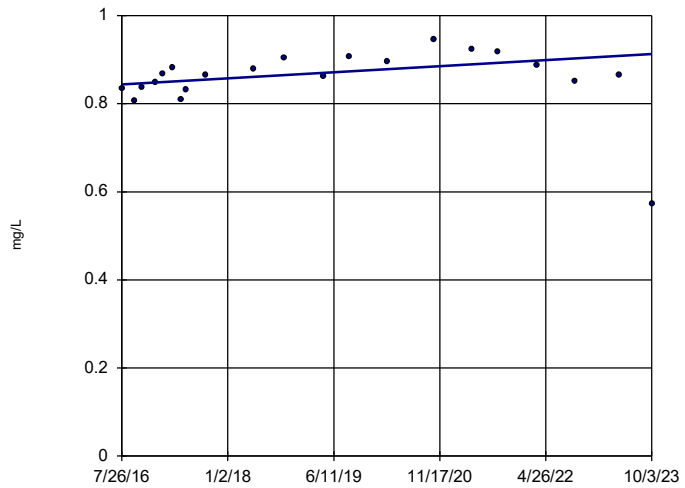


n = 21
 Slope = -0.0004523
 units per year.
 Mann-Kendall
 statistic = -4
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-6

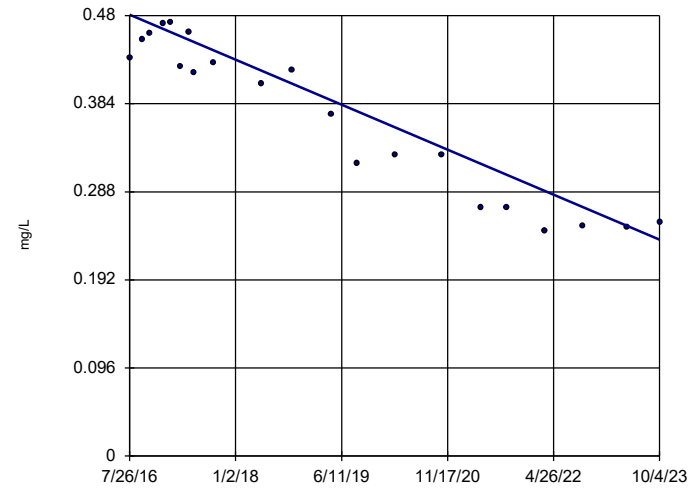


n = 21
 Slope = 0.009523
 units per year.
 Mann-Kendall
 statistic = 66
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-PZ-5

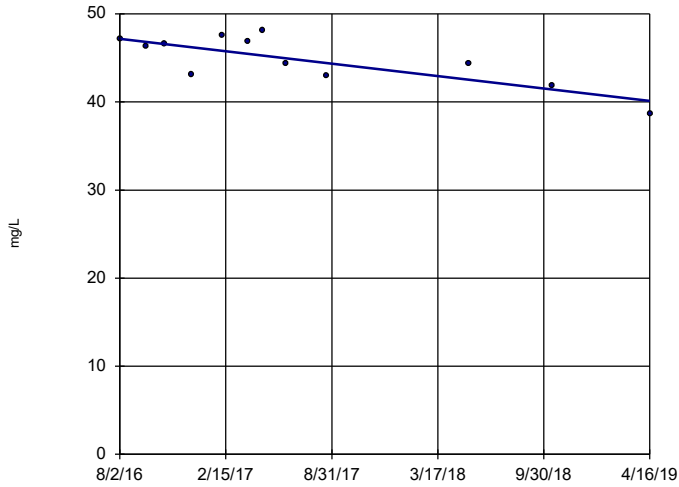


n = 21
 Slope = -0.03405
 units per year.
 Mann-Kendall
 statistic = -158
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

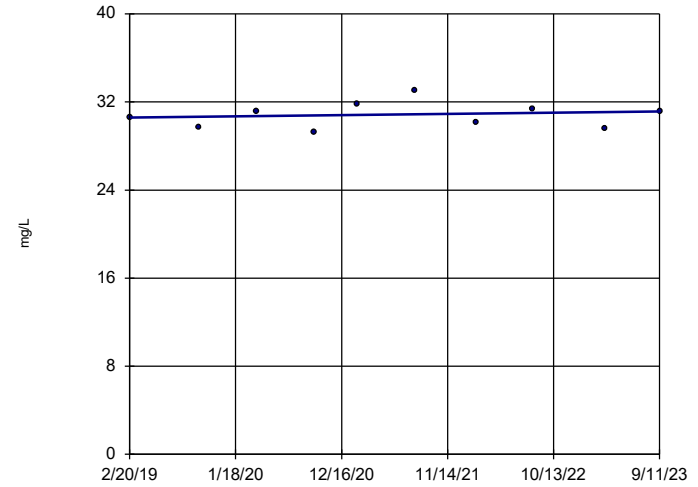


n = 12
 Slope = -2.607
 units per year.
 Mann-Kendall
 statistic = -32
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

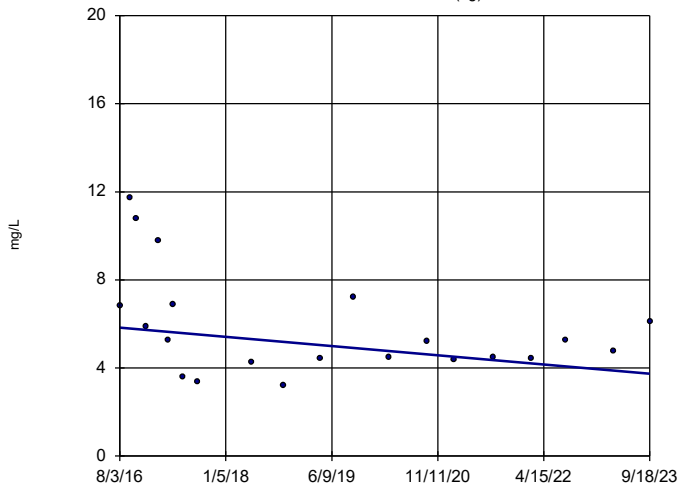


n = 10
 Slope = 0.1203
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 30
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

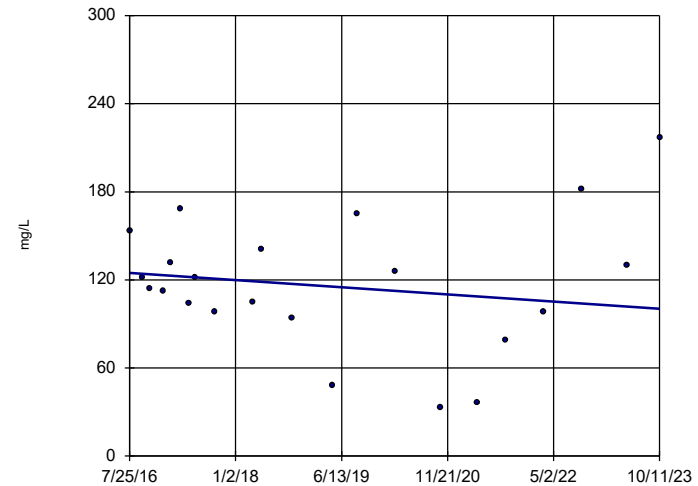


n = 21
 Slope = -0.2946
 units per year.
 Mann-Kendall
 statistic = -47
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-1

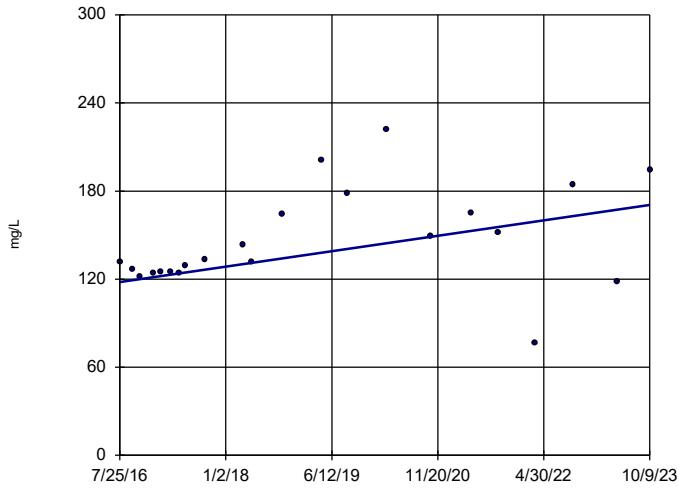


n = 22
 Slope = -3.396
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

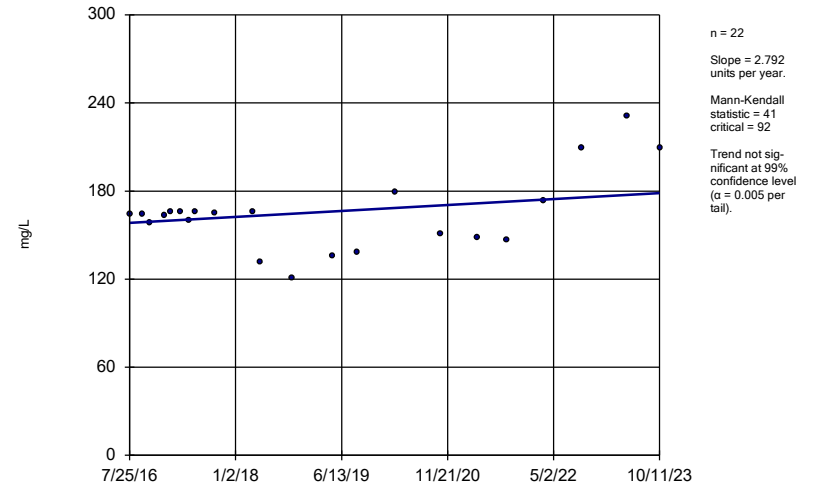
MR-AP-MW-10



Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

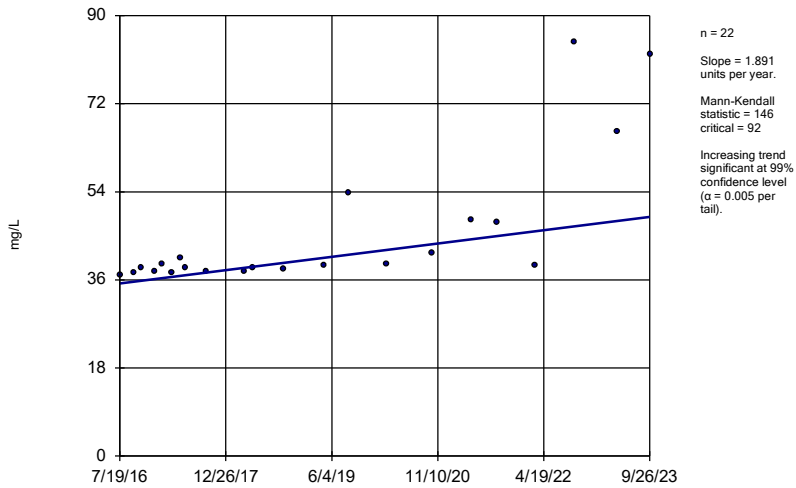
MR-AP-MW-11



Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

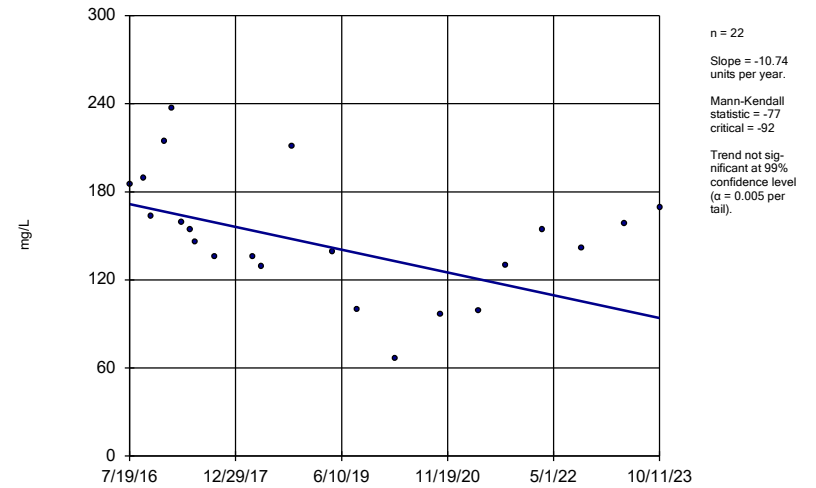
MR-AP-MW-15



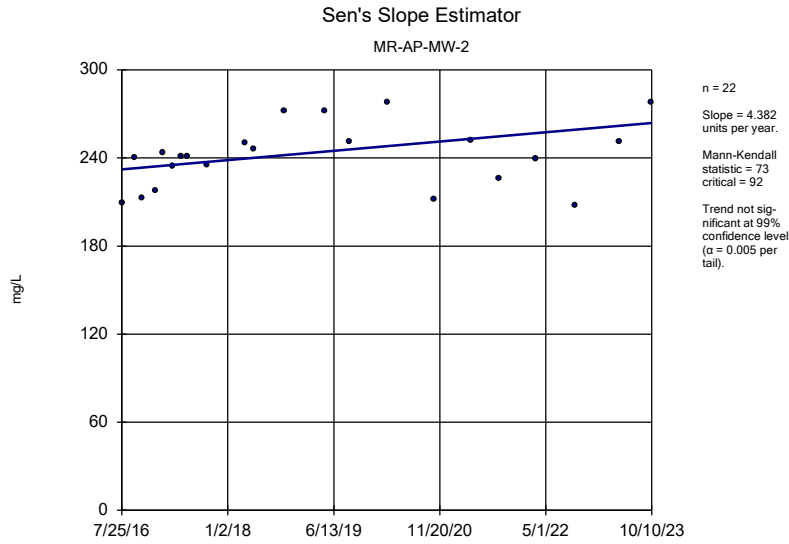
Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

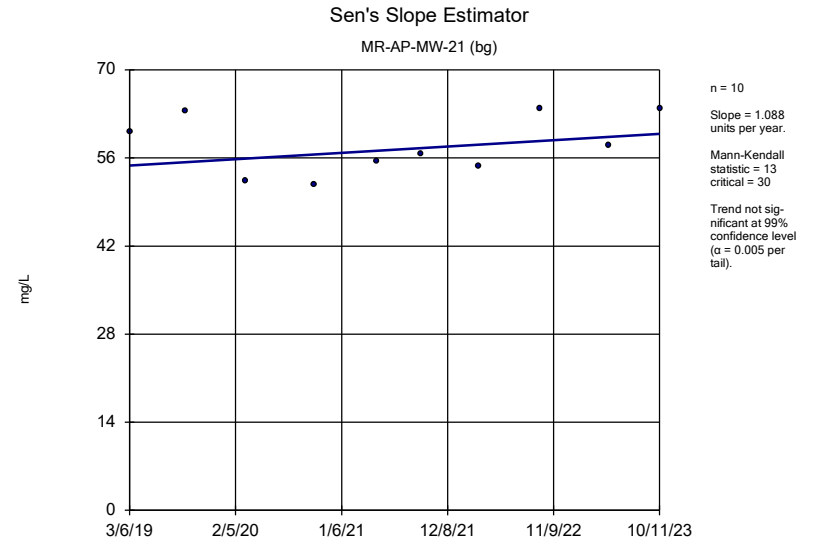
MR-AP-MW-16



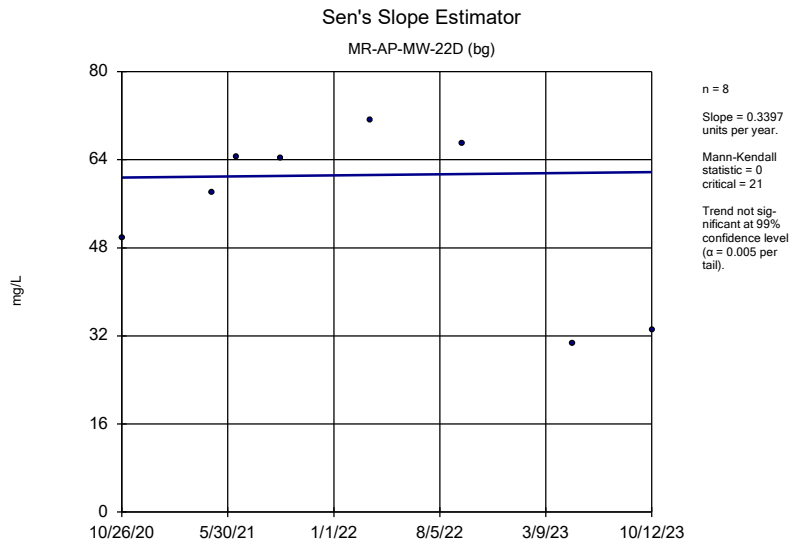
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Plant Miller Client: Southern Company Data: Miller Ash Pond



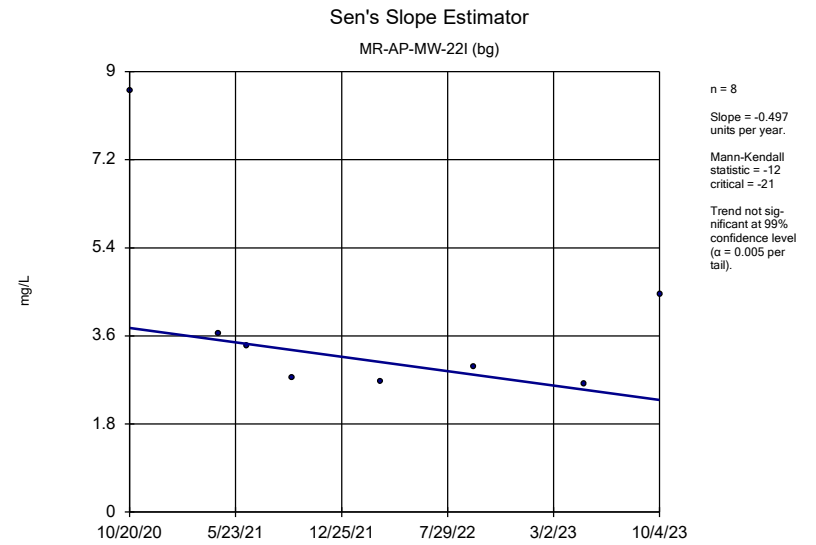
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Plant Miller Client: Southern Company Data: Miller Ash Pond



Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond



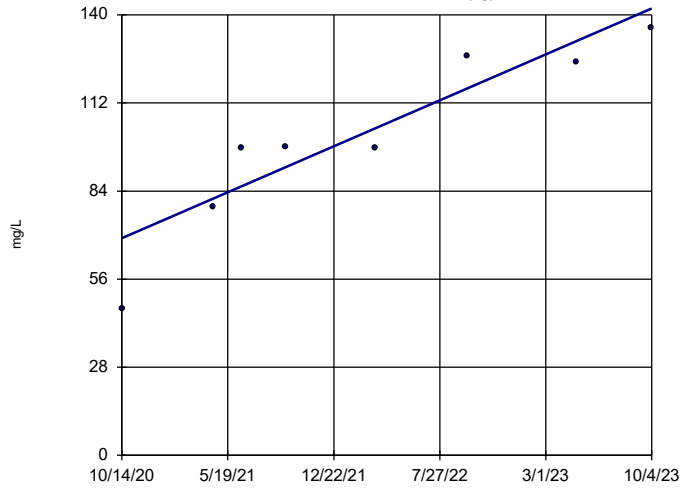
Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond



Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

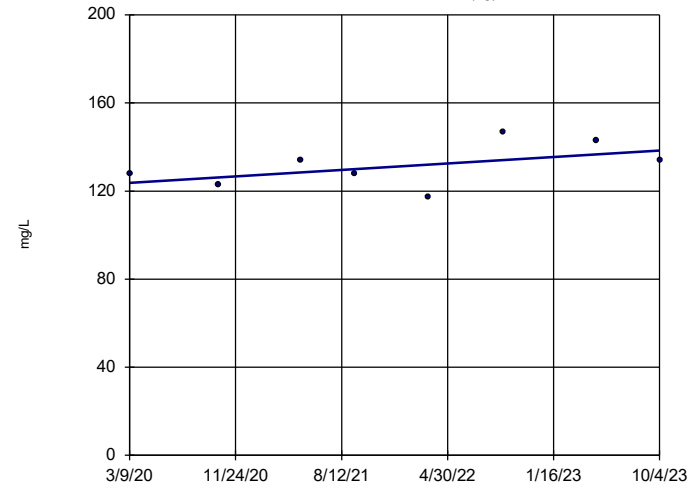


n = 8
 Slope = 24.54 units per year.
 Mann-Kendall statistic = 22
 critical = 21
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

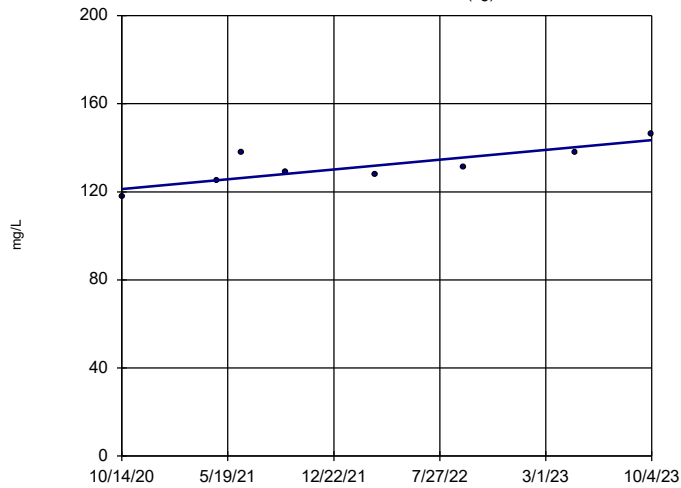


n = 8
 Slope = 4.113 units per year.
 Mann-Kendall statistic = 8
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

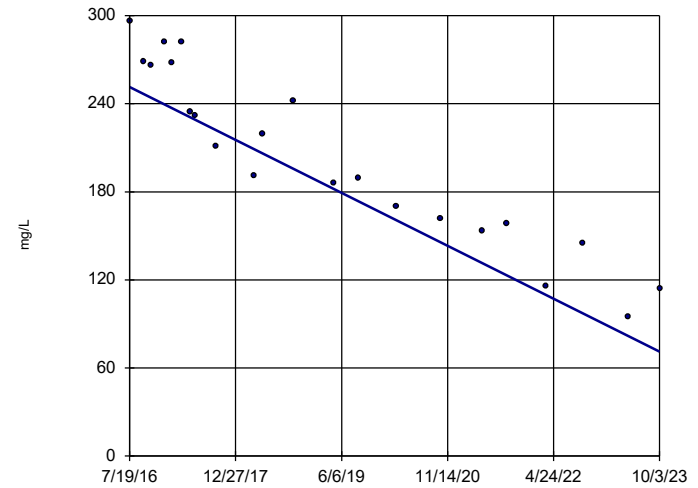


n = 8
 Slope = 7.452 units per year.
 Mann-Kendall statistic = 19
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

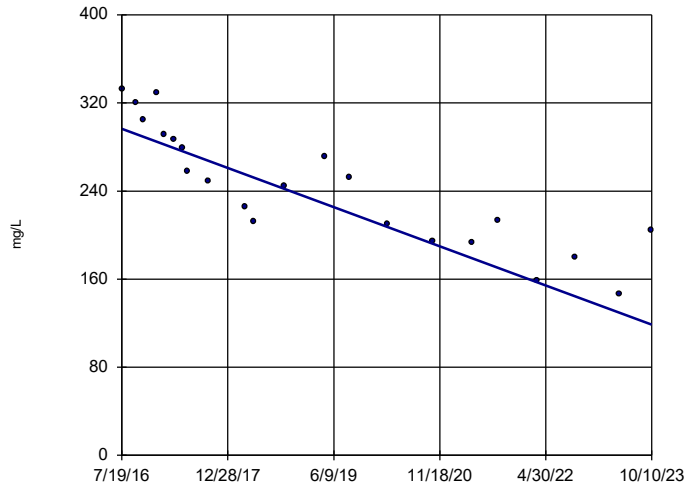


n = 22
 Slope = -25 units per year.
 Mann-Kendall statistic = -196
 critical = -92
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

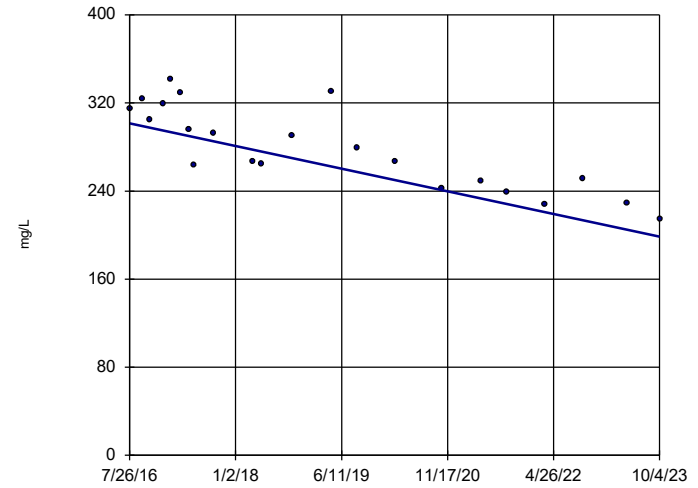


n = 22
 Slope = -24.62 units per year.
 Mann-Kendall statistic = -185
 critical = -92
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

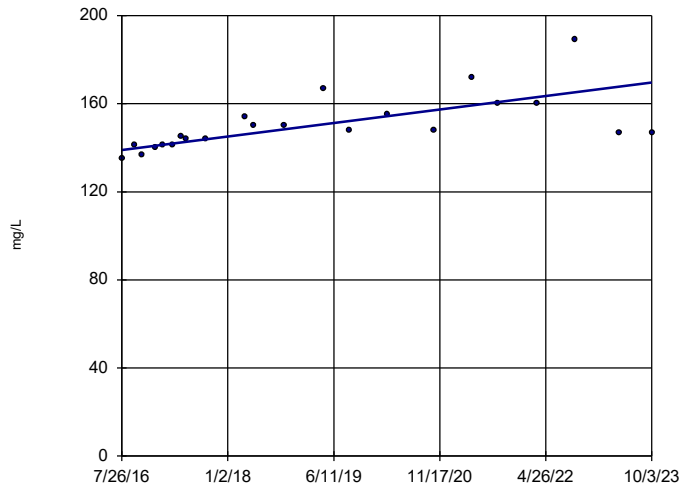


n = 22
 Slope = -14.31 units per year.
 Mann-Kendall statistic = -152
 critical = -92
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-6

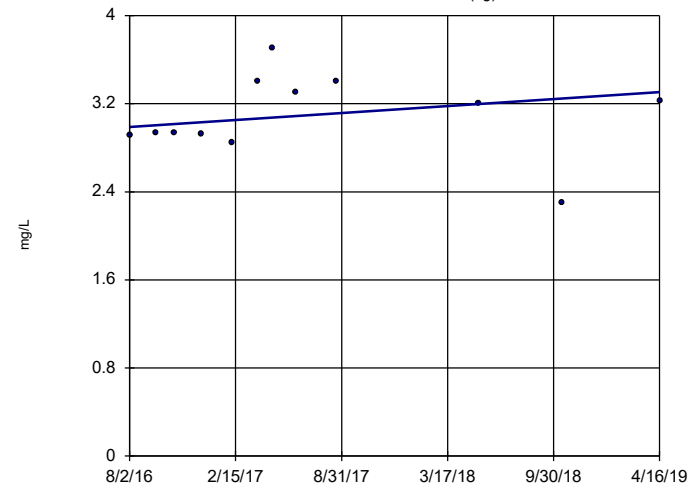


n = 22
 Slope = 4.261 units per year.
 Mann-Kendall statistic = 139
 critical = 92
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

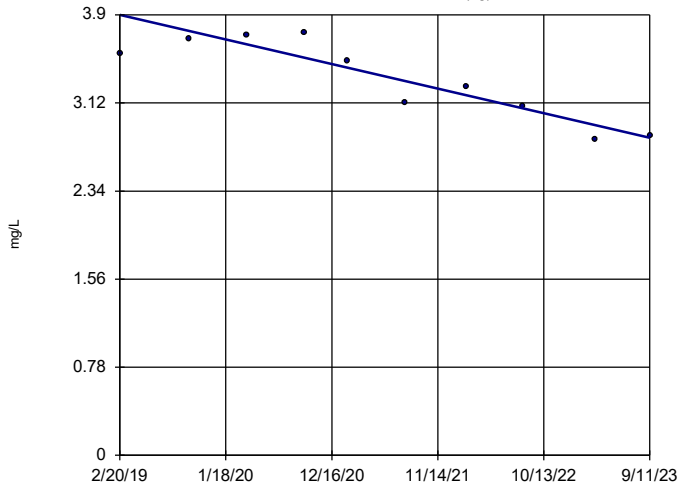


n = 12
 Slope = 0.1178 units per year.
 Mann-Kendall statistic = 10
 critical = 38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

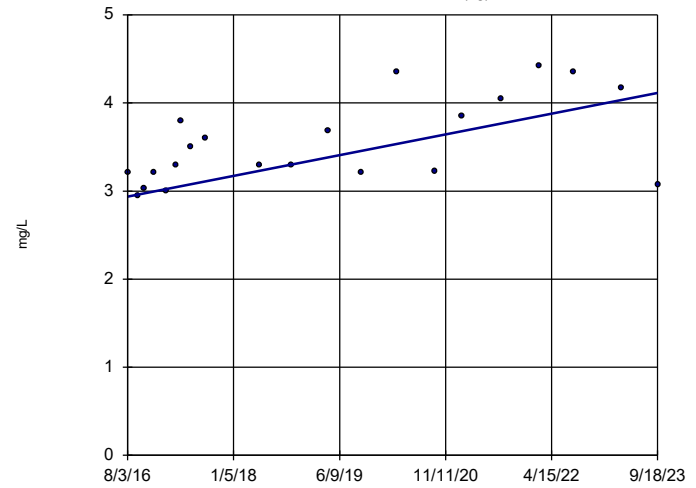


n = 10
 Slope = -0.2384 units per year.
 Mann-Kendall statistic = -29
 critical = -30
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

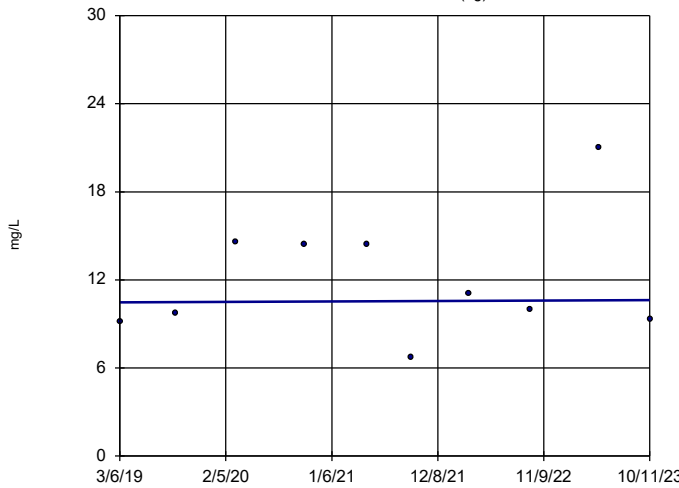


n = 21
 Slope = 0.1651 units per year.
 Mann-Kendall statistic = 99
 critical = 87
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

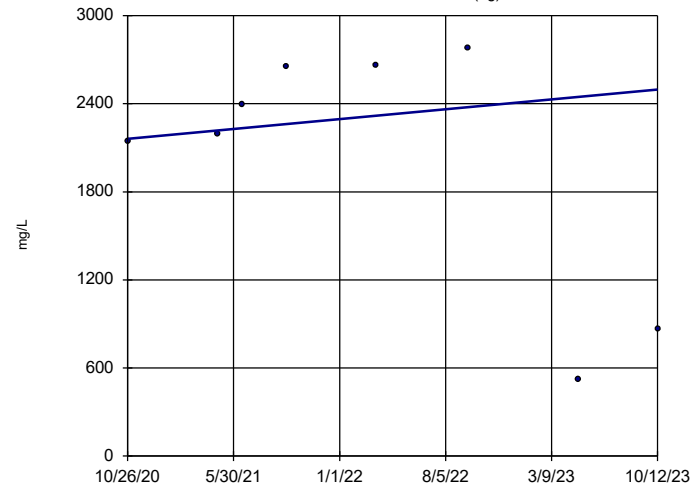


n = 10
 Slope = 0.03042 units per year.
 Mann-Kendall statistic = 2
 critical = 30
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22D (bg)

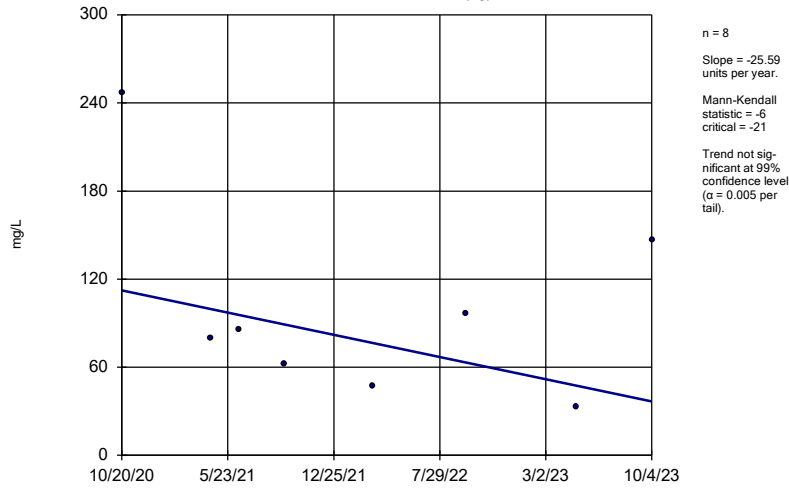


n = 8
 Slope = 113.6 units per year.
 Mann-Kendall statistic = 4
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

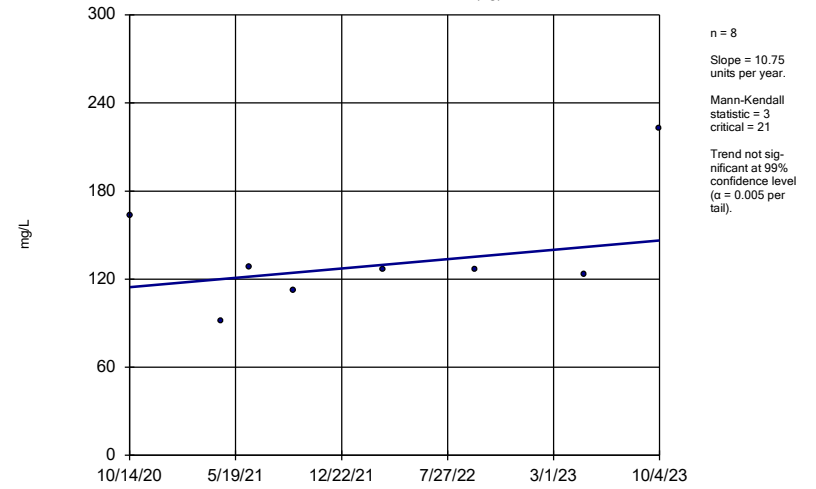
MR-AP-MW-221 (bg)



Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

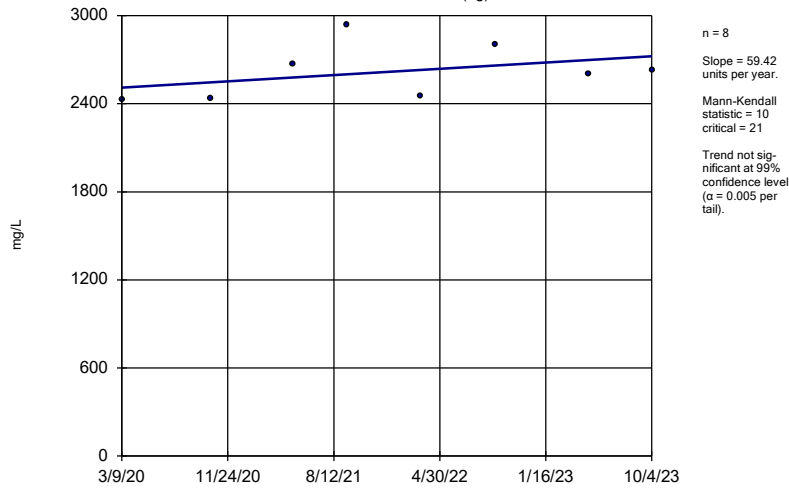
MR-AP-MW-22S (bg)



Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

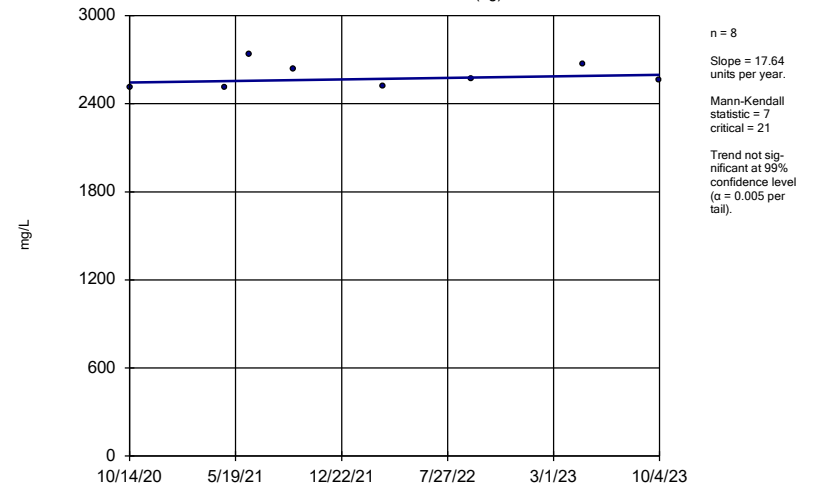
MR-AP-MW-23 (bg)



Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

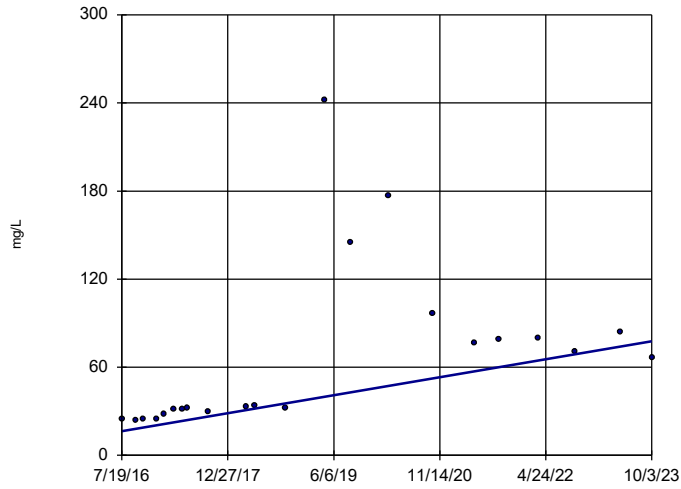
MR-AP-MW-23A (bg)



Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3S

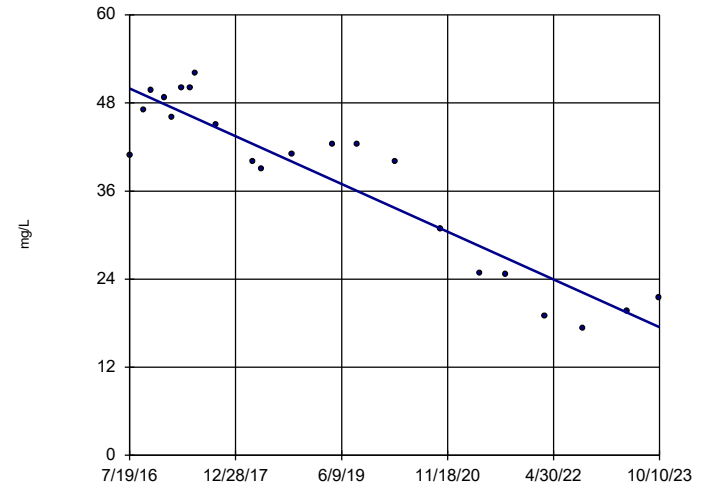


n = 22
 Slope = 8.488
 units per year.
 Mann-Kendall
 statistic = 137
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

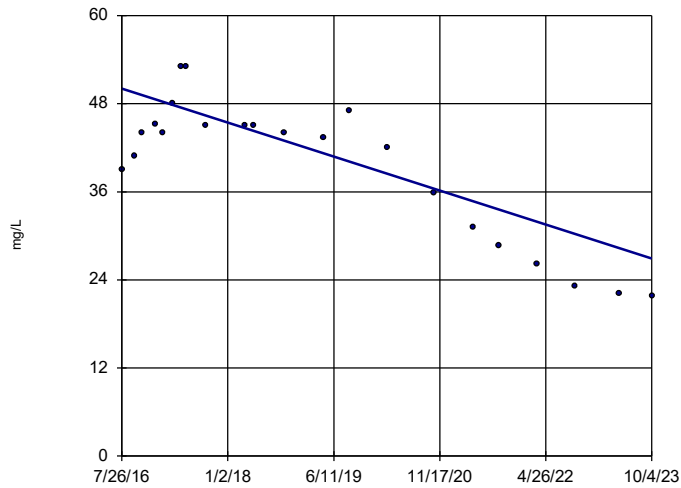


n = 22
 Slope = -4.498
 units per year.
 Mann-Kendall
 statistic = -146
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

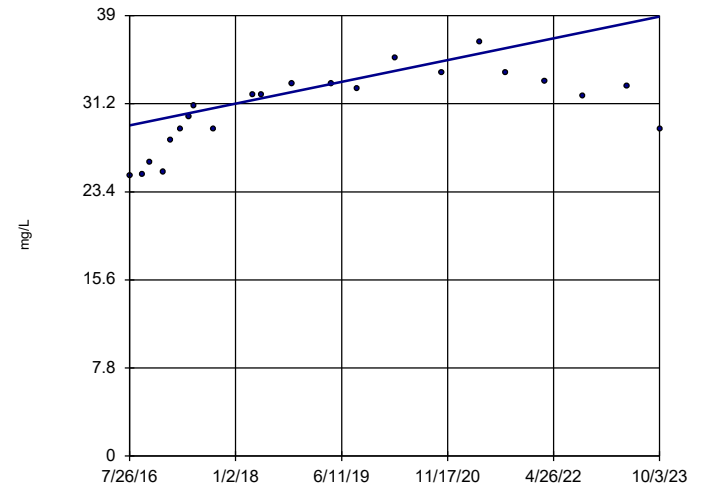


n = 22
 Slope = -3.221
 units per year.
 Mann-Kendall
 statistic = -120
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-6

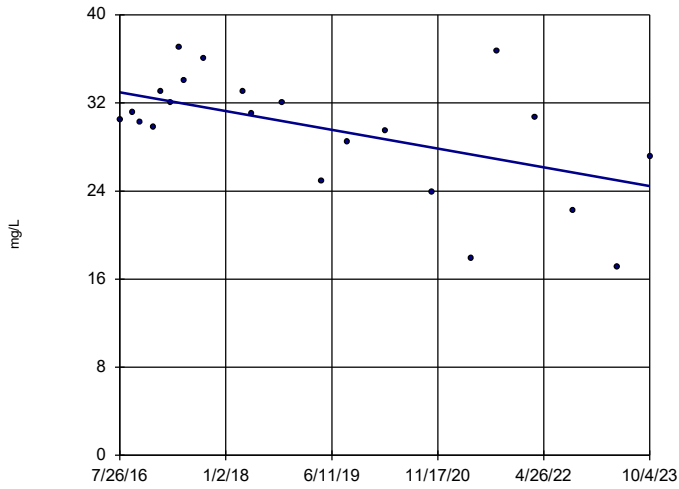


n = 22
 Slope = 1.34
 units per year.
 Mann-Kendall
 statistic = 139
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-PZ-5

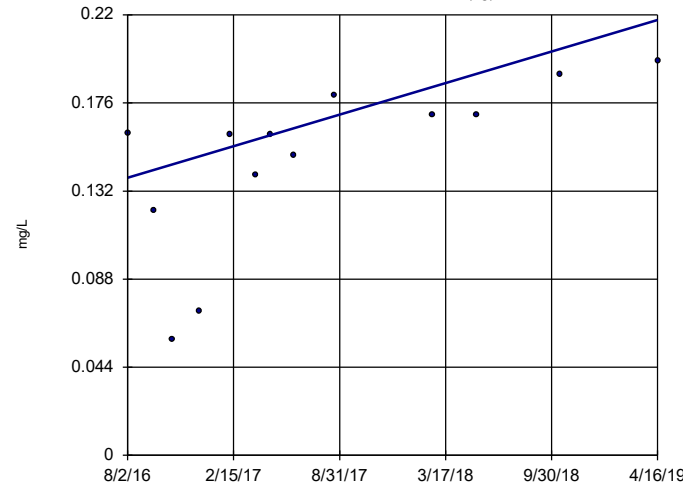


n = 22
 Slope = -1.181 units per year.
 Mann-Kendall statistic = -81
 critical = -92
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Chloride, Total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

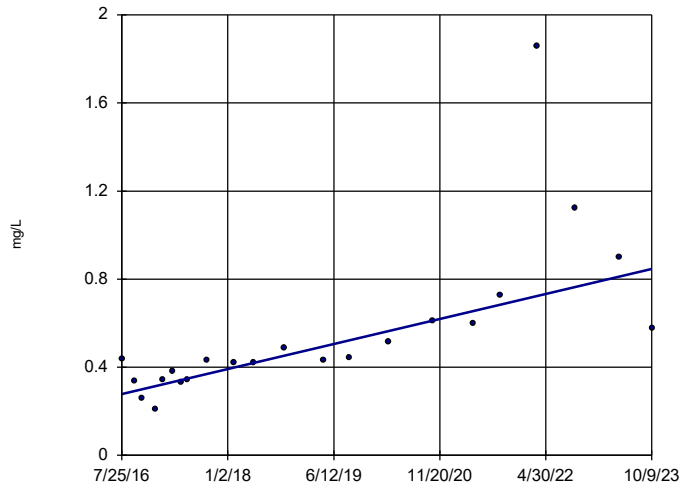
Sen's Slope Estimator

GS-AP-MW-13 (bg)



Sen's Slope Estimator

MR-AP-MW-10

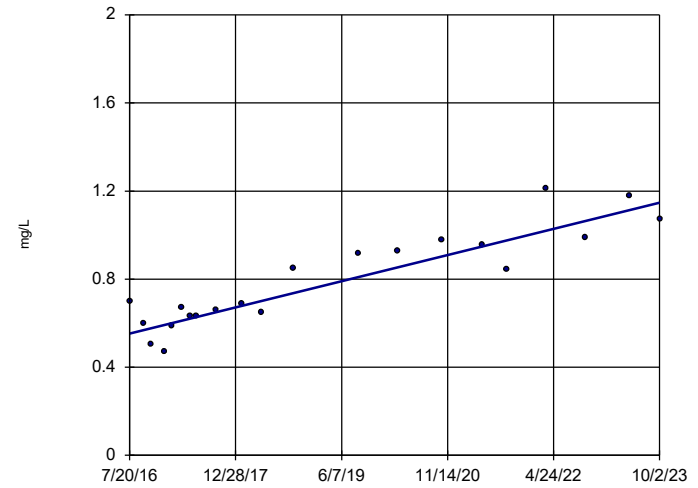


n = 22
 Slope = 0.07867
 units per year.
 Mann-Kendall
 statistic = 165
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-12

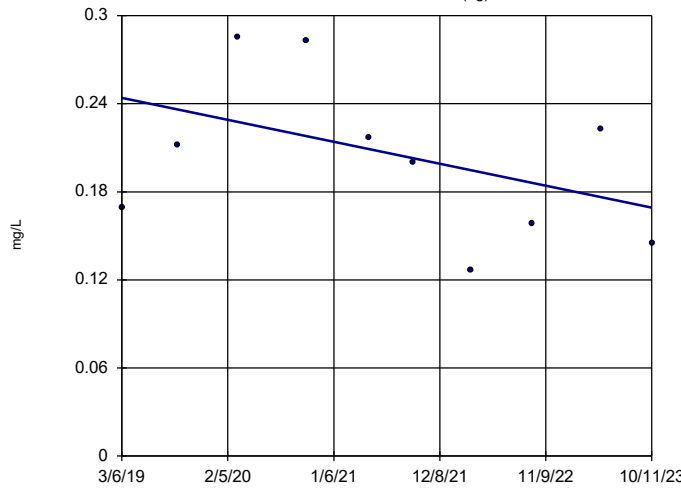


n = 21
 Slope = 0.0825
 units per year.
 Mann-Kendall
 statistic = 149
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

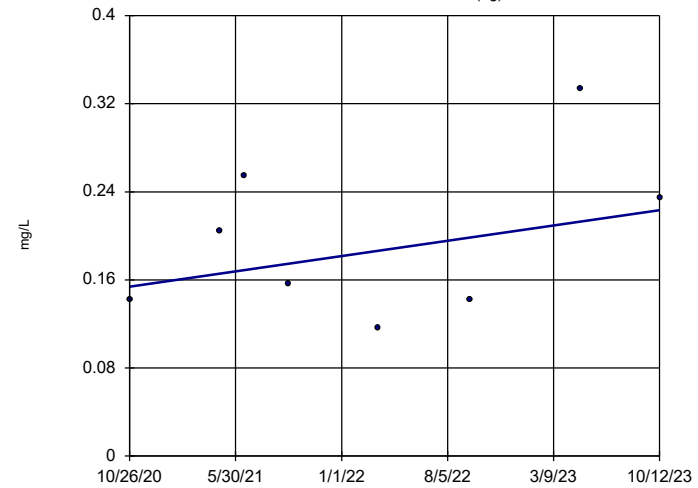


n = 10
 Slope = -0.01625
 units per year.
 Mann-Kendall
 statistic = -13
 critical = -30
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22D (bg)

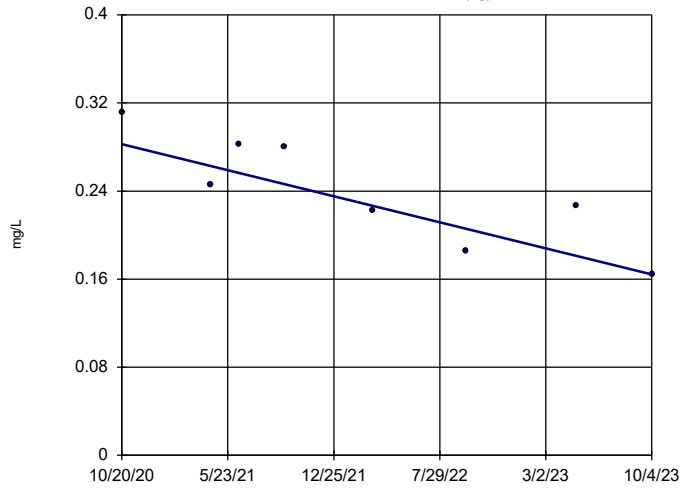


n = 8
 Slope = 0.02344
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22I (bg)

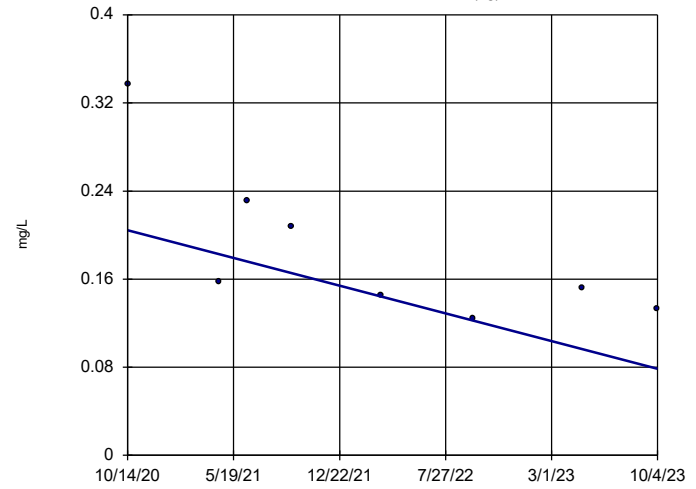


n = 8
 Slope = -0.04005
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Fluoride, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

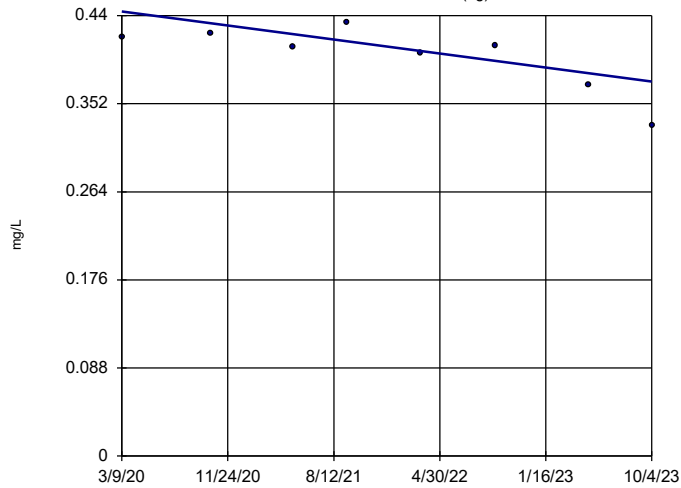


n = 8
 Slope = -0.04231
 units per year.
 Mann-Kendall
 statistic = -18
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Fluoride, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

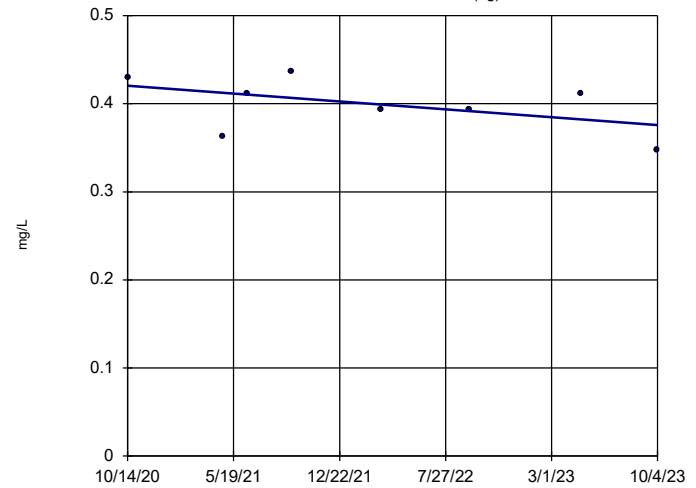


n = 8
 Slope = -0.01957
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Fluoride, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

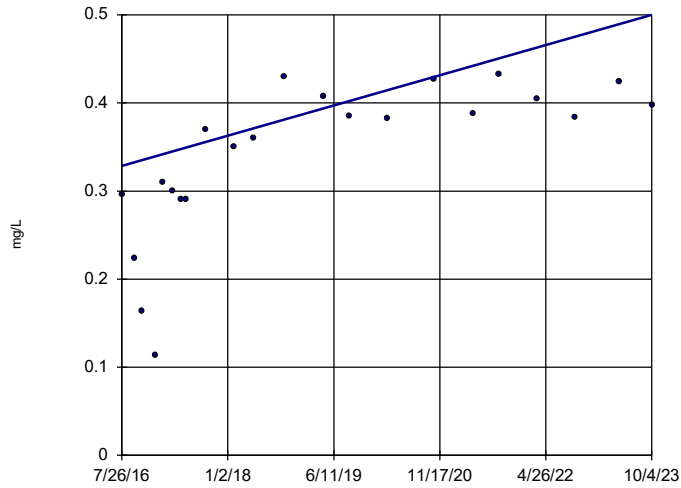


n = 8
 Slope = -0.01501
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Fluoride, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

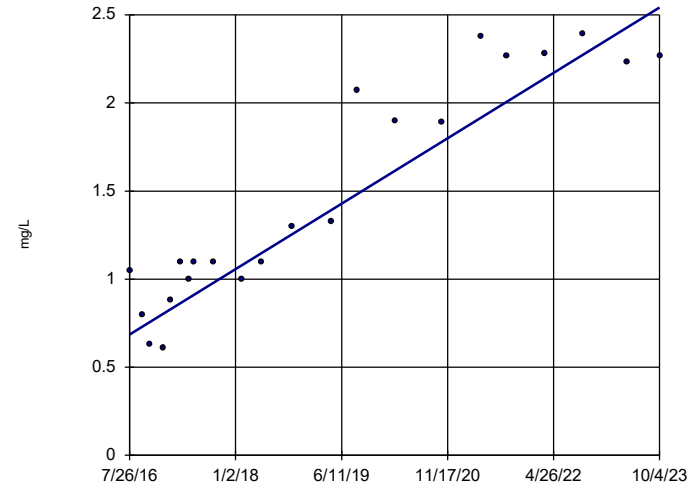


n = 22
 Slope = 0.02382
 units per year.
 Mann-Kendall
 statistic = 140
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-PZ-5

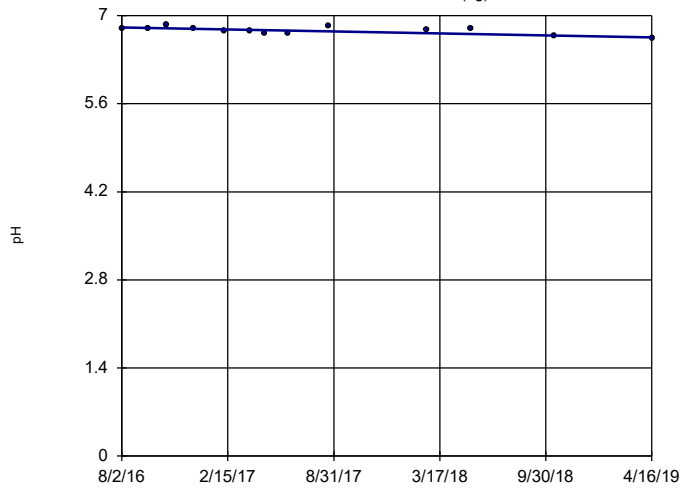


n = 22
 Slope = 0.2579
 units per year.
 Mann-Kendall
 statistic = 173
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

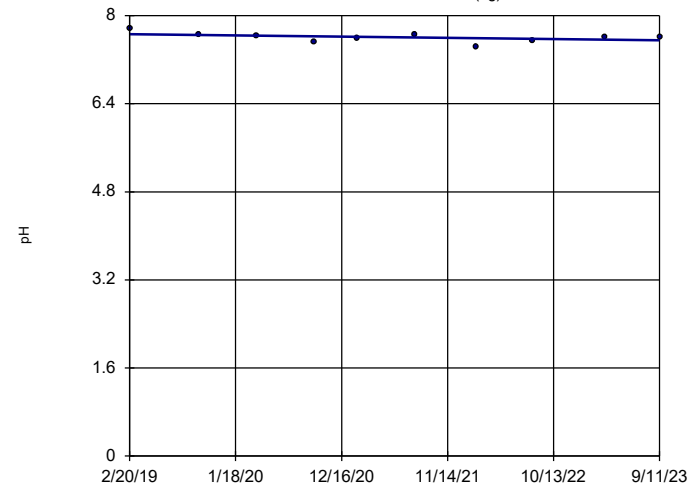


n = 13
 Slope = -0.05825
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

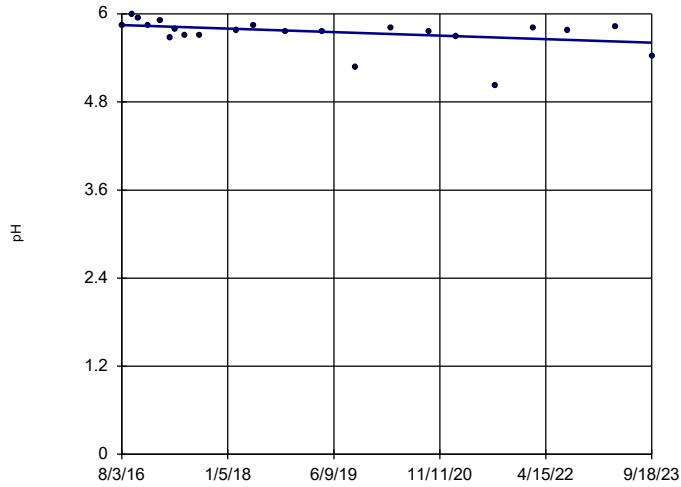


n = 10
 Slope = -0.02446
 units per year.
 Mann-Kendall
 statistic = -15
 critical = -30
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

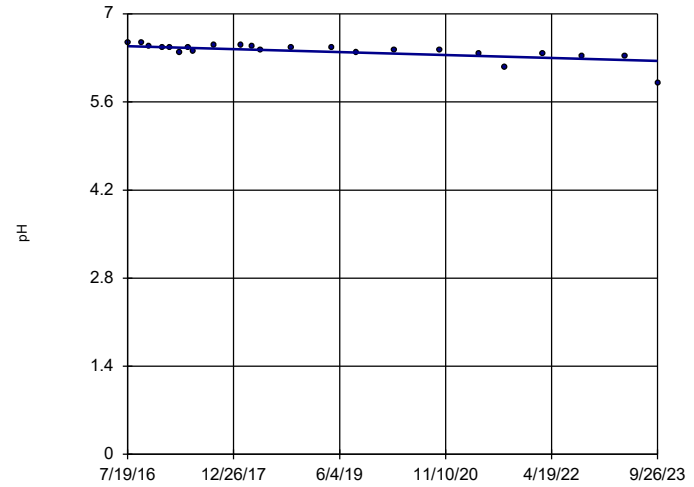


n = 22
 Slope = -0.0333
 units per year.
 Mann-Kendall
 statistic = -82
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-15

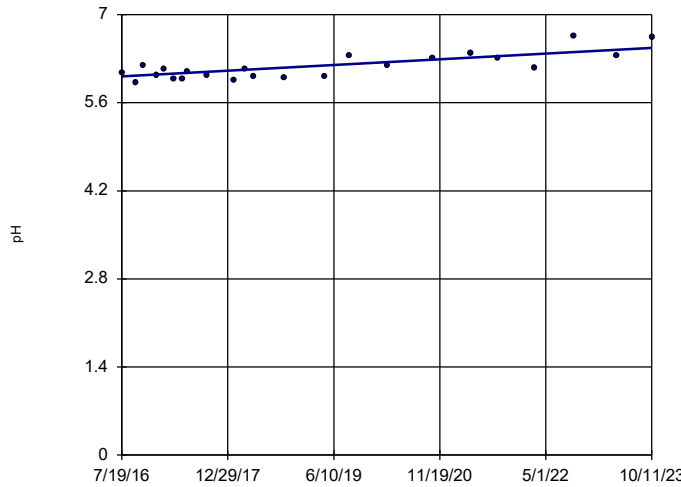


n = 23
 Slope = -0.03253
 units per year.
 Mann-Kendall
 statistic = -162
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-16

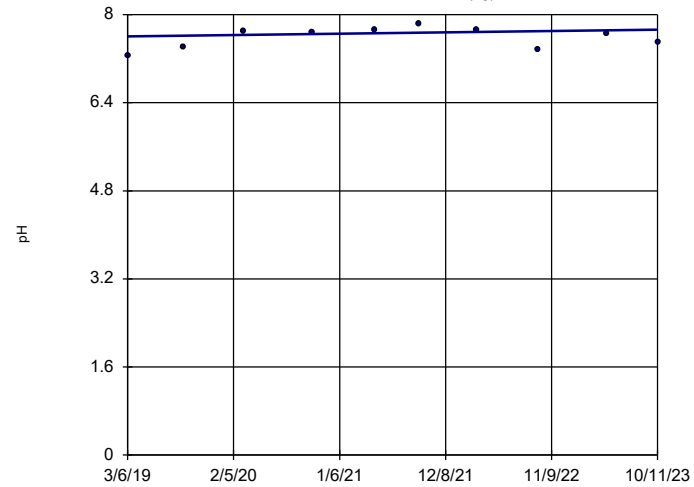


n = 23
 Slope = 0.06288
 units per year.
 Mann-Kendall
 statistic = 124
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

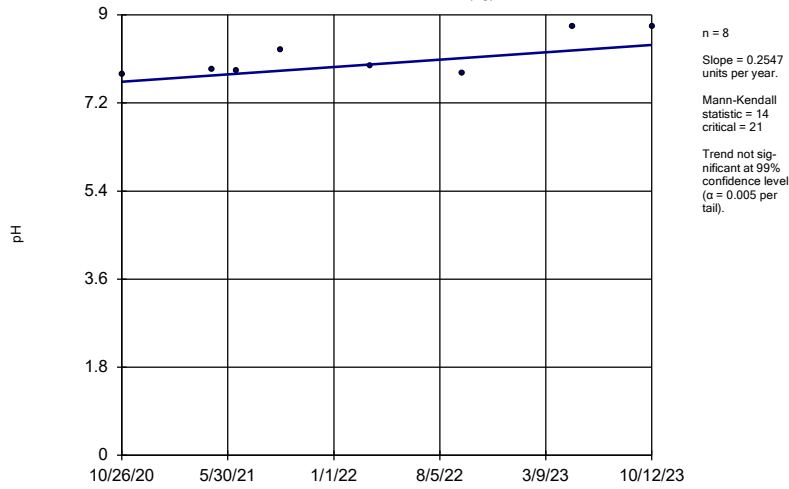


n = 10
 Slope = 0.02639
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 30
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

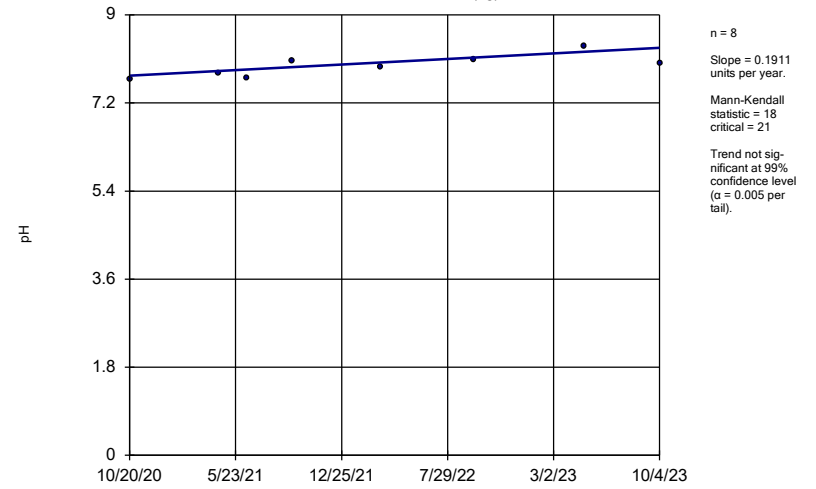
MR-AP-MW-22D (bg)



Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

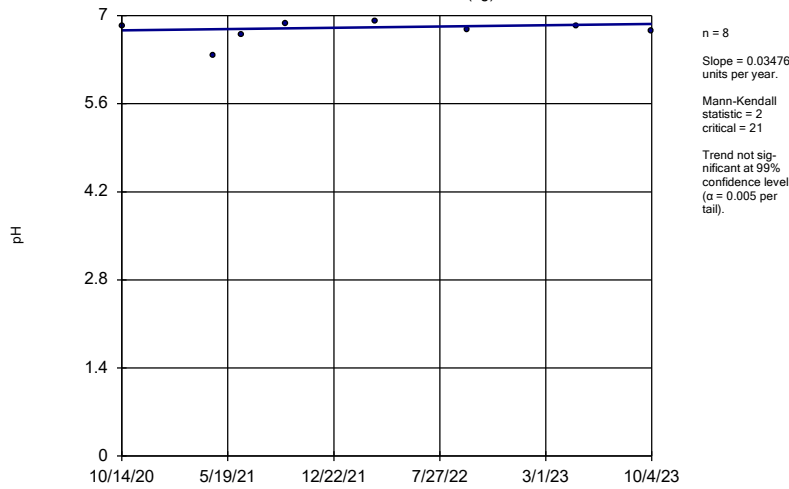
MR-AP-MW-22I (bg)



Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

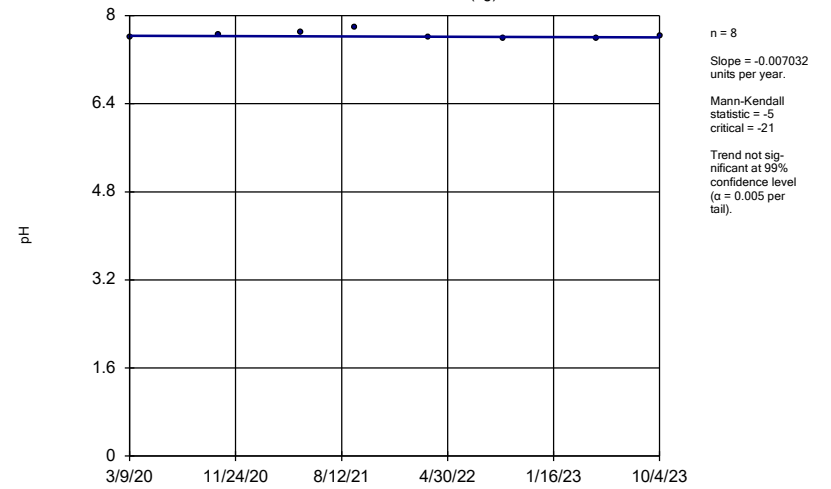
MR-AP-MW-22S (bg)



Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

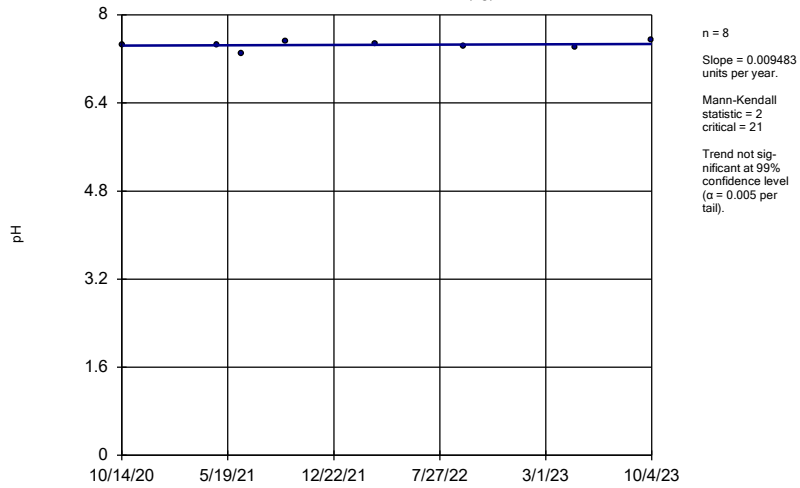
MR-AP-MW-23 (bg)



Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

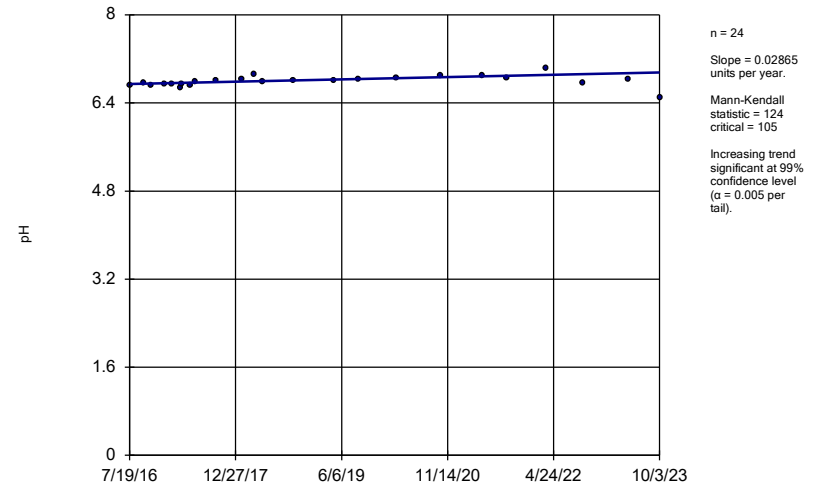
MR-AP-MW-23A (bg)



Constituent: pH, Field Analysis Run 12/21/2023 3:08 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

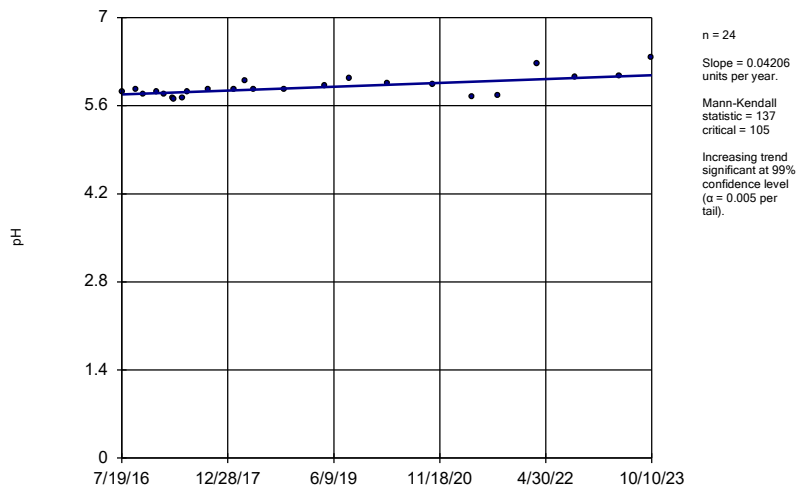
MR-AP-MW-3D



Constituent: pH, Field Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

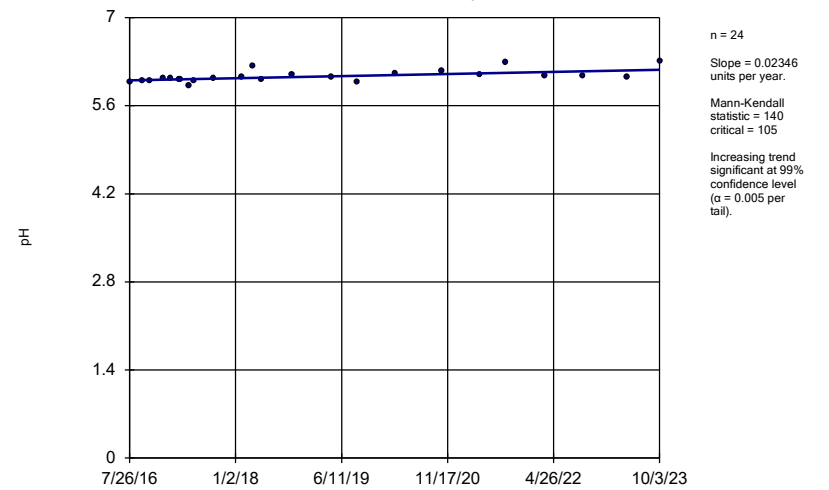
MR-AP-MW-4



Constituent: pH, Field Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

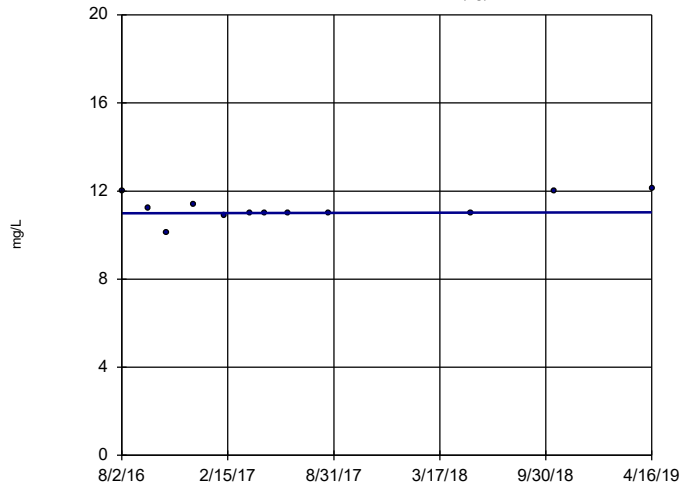
MR-AP-MW-6



Constituent: pH, Field Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

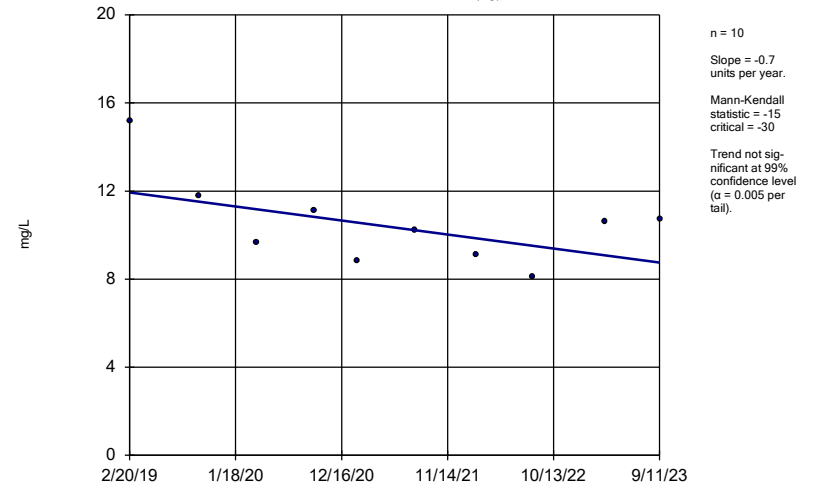
GS-AP-MW-13 (bg)



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

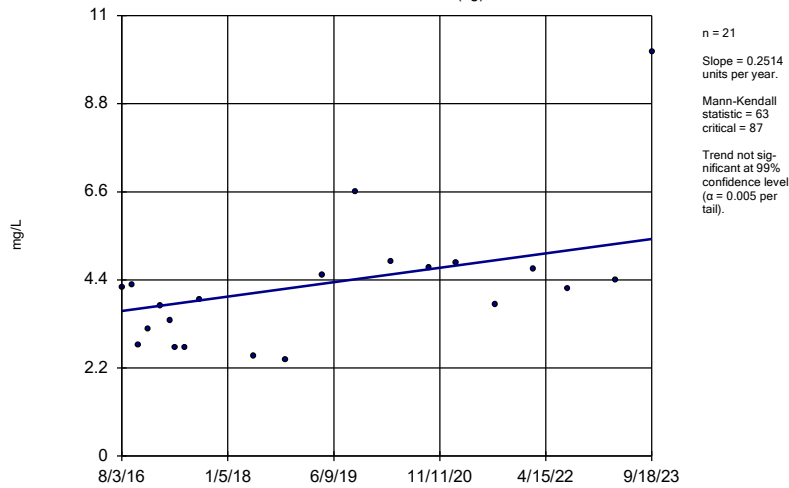
GS-AP-MW-17V (bg)



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

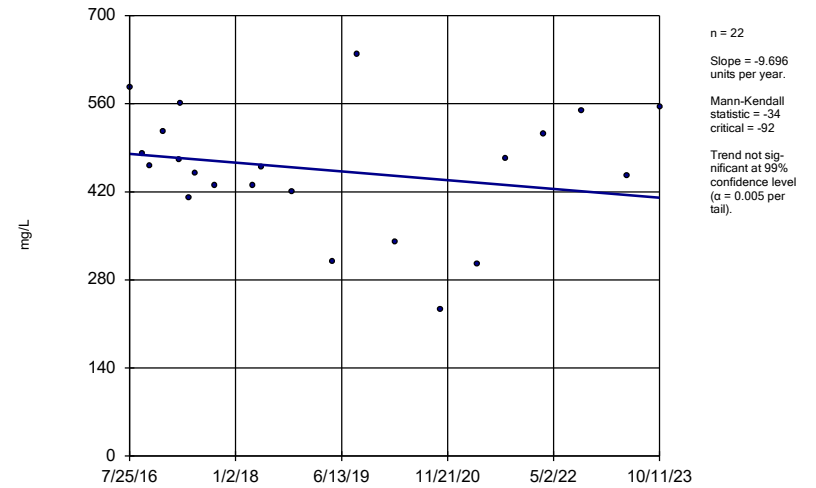
GS-AP-MW-8 (bg)



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

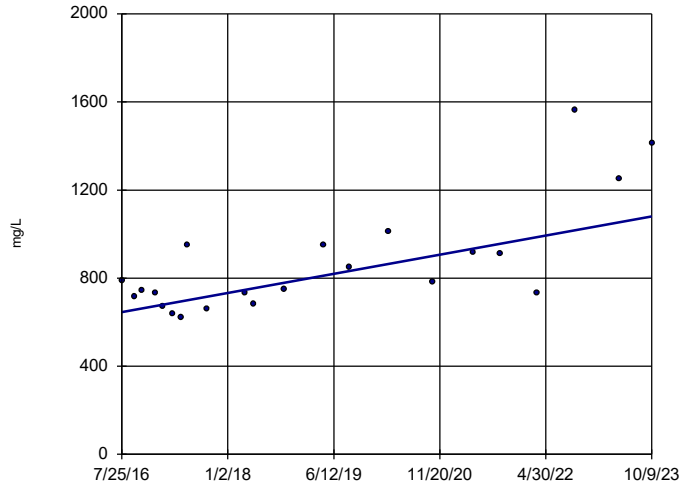
MR-AP-MW-1



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

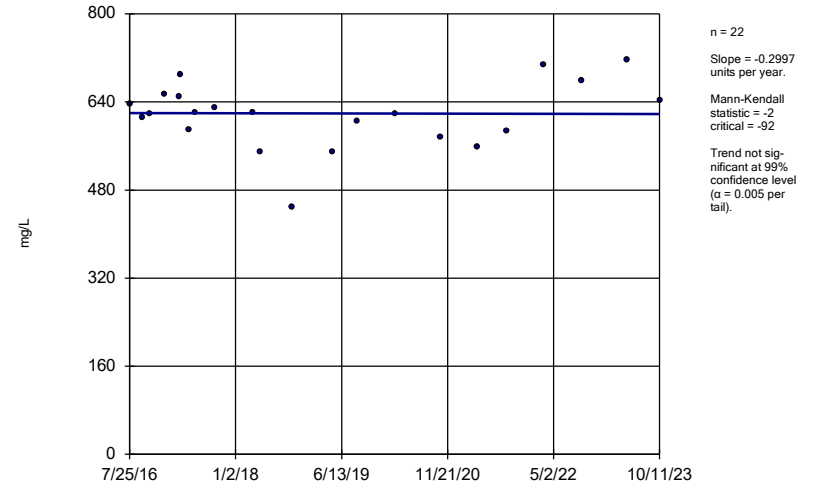
MR-AP-MW-10



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

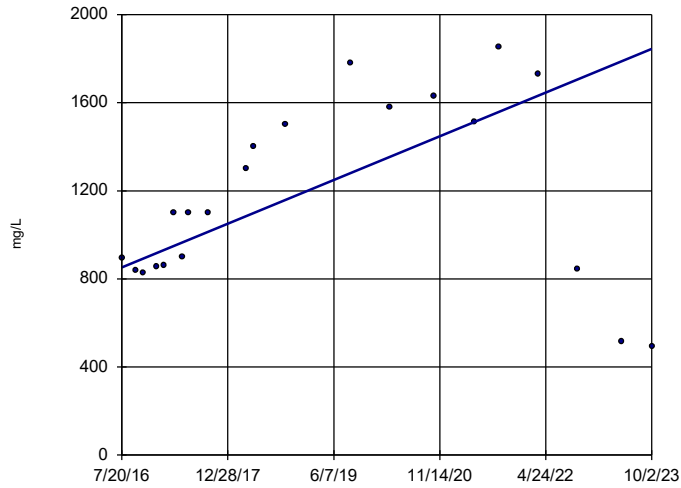
MR-AP-MW-11



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

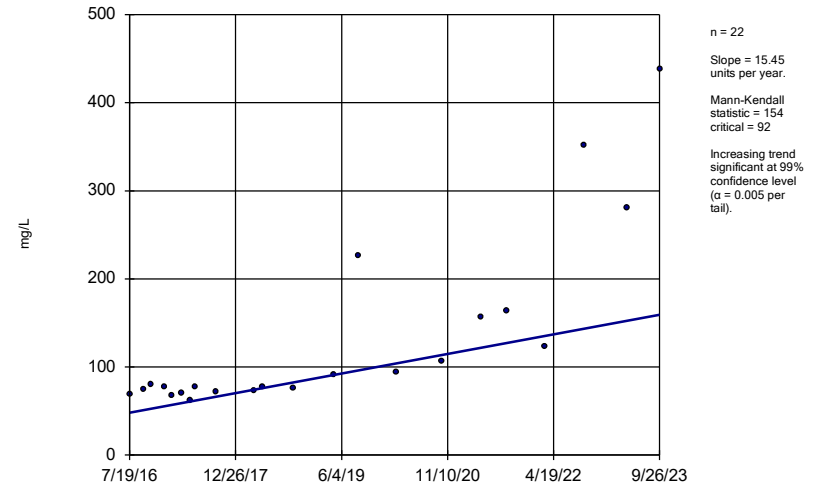
MR-AP-MW-12



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

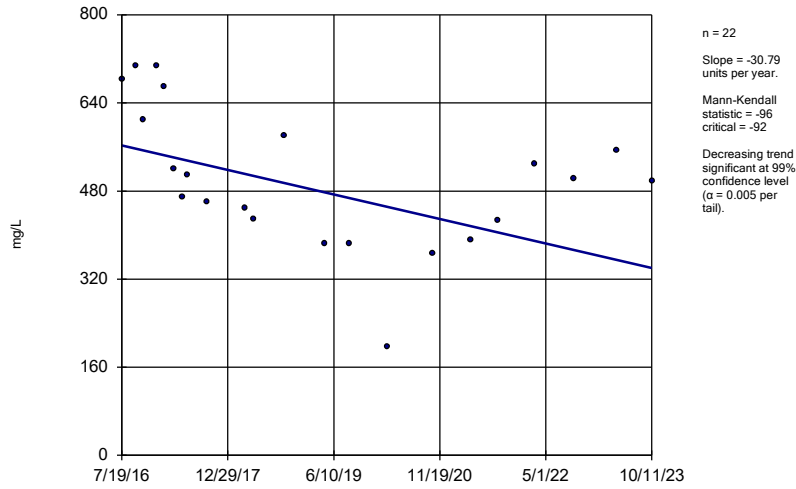
MR-AP-MW-15



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

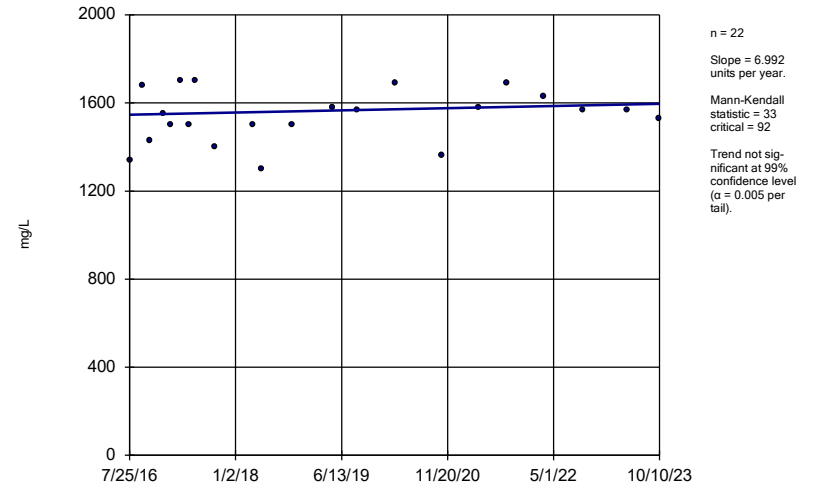
MR-AP-MW-16



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

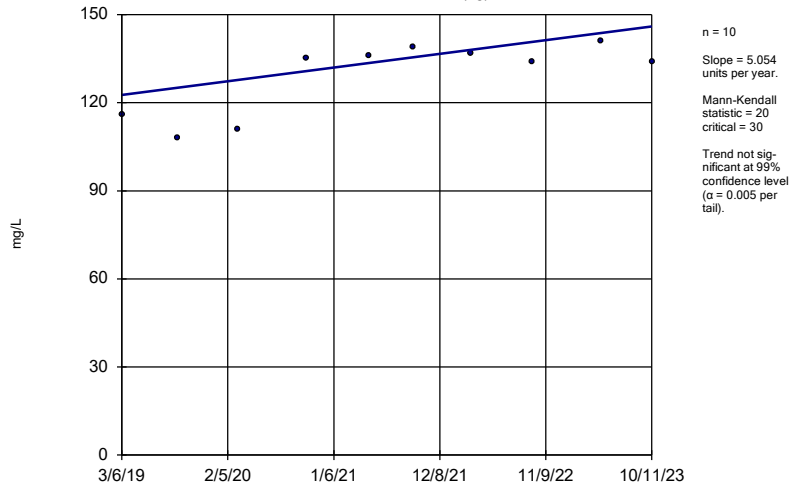
MR-AP-MW-2



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

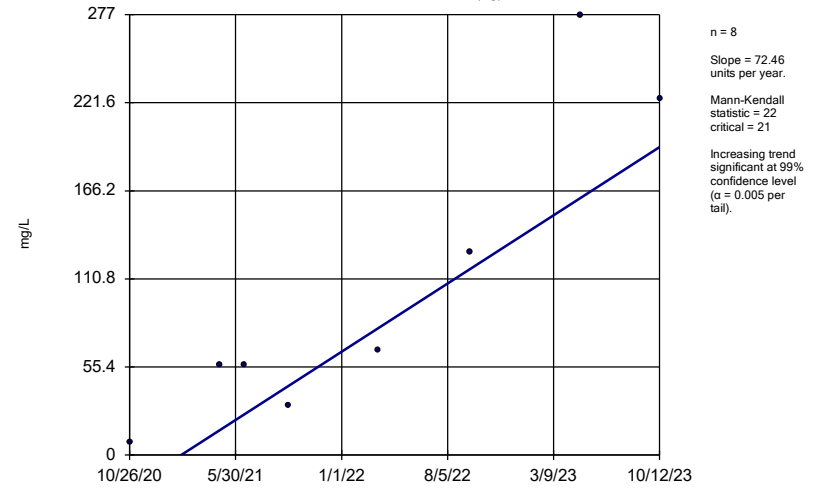
MR-AP-MW-21 (bg)



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

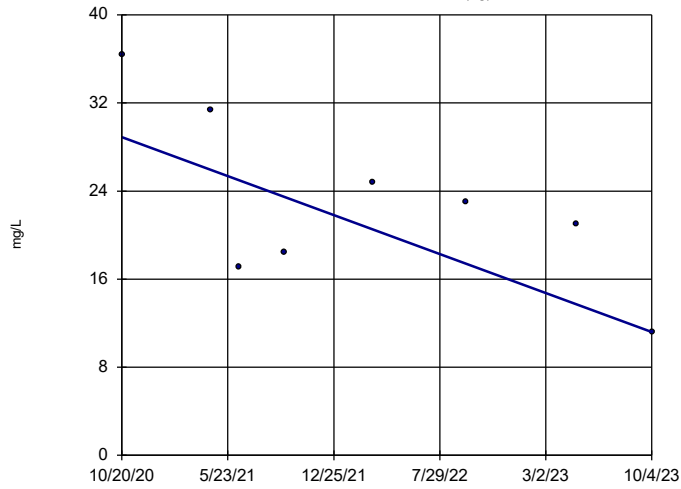
MR-AP-MW-22D (bg)



Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-221 (bg)

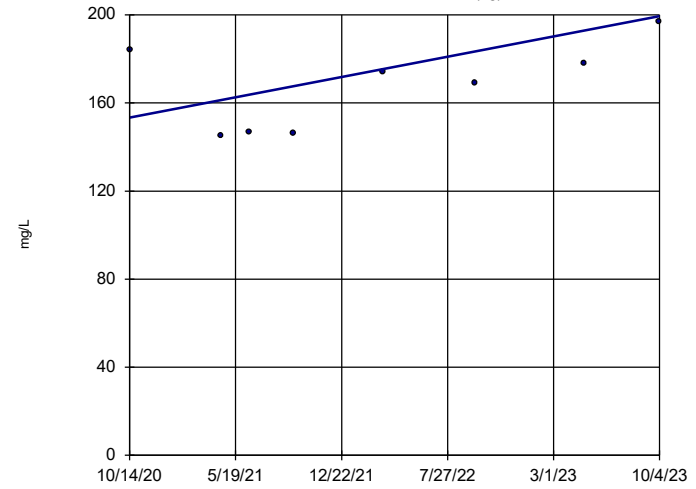


n = 8
 Slope = -5.992
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

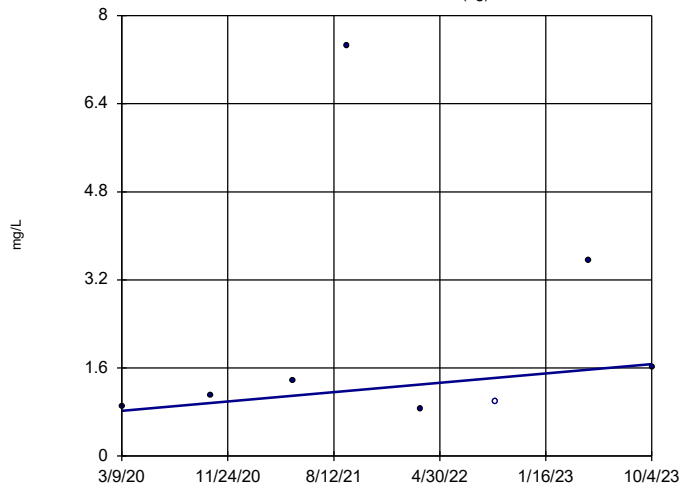


n = 8
 Slope = 15.51
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

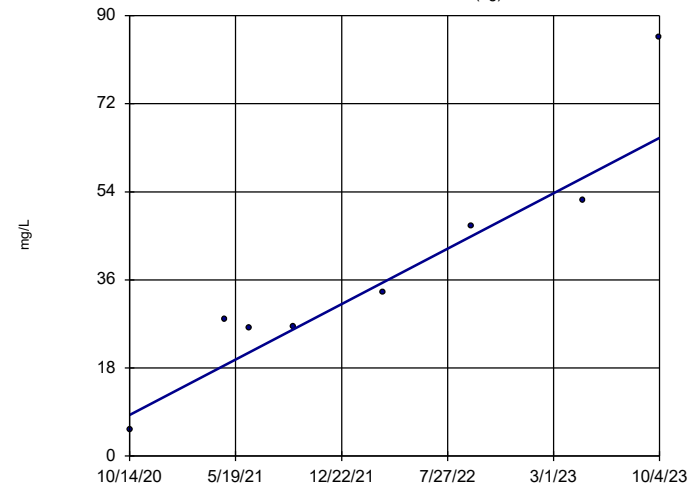


n = 8
 Slope = 0.2373
 units per year.
 Mann-Kendall
 statistic = 8
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

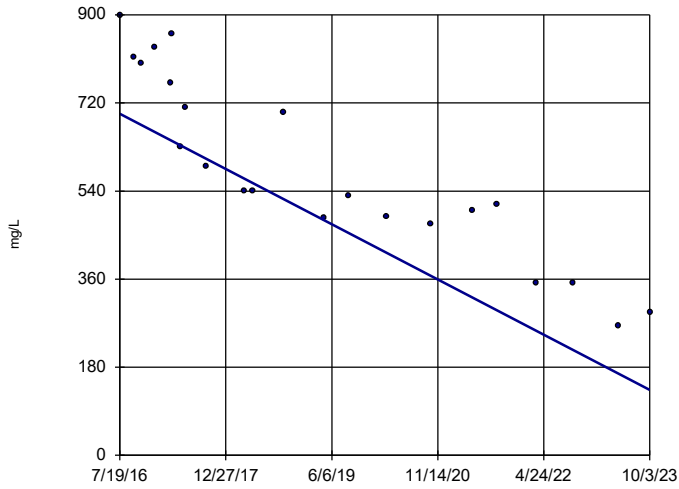


n = 8
 Slope = 19.05
 units per year.
 Mann-Kendall
 statistic = 24
 critical = 21
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

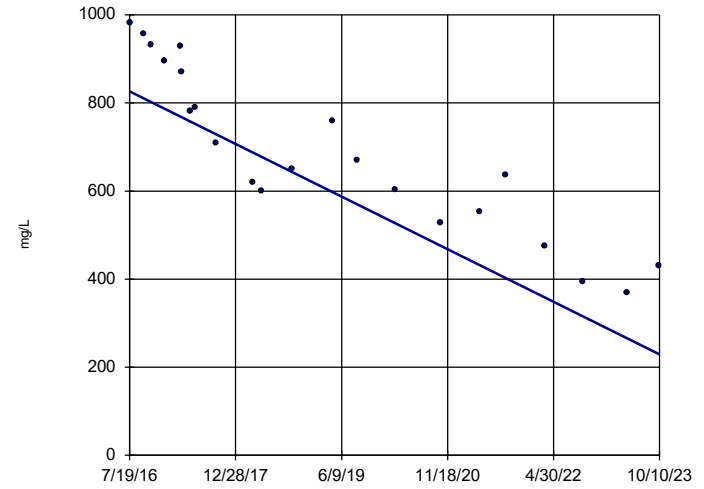


n = 22
 Slope = -78.28
 units per year.
 Mann-Kendall
 statistic = -187
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

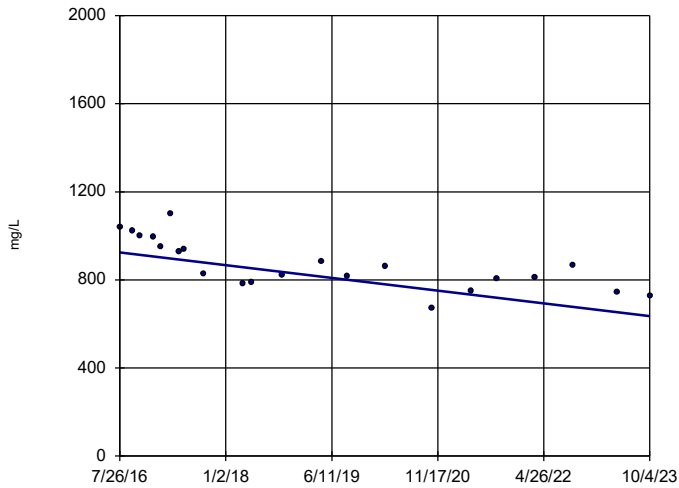


n = 22
 Slope = -82.61
 units per year.
 Mann-Kendall
 statistic = -191
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

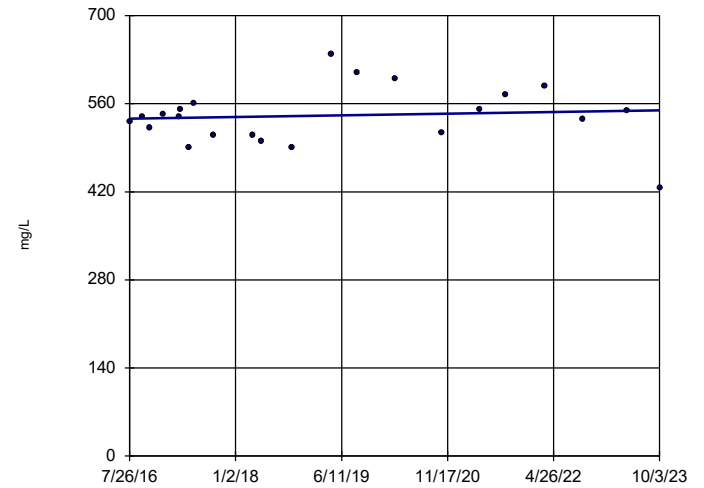


n = 22
 Slope = -40.19
 units per year.
 Mann-Kendall
 statistic = -147
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-6

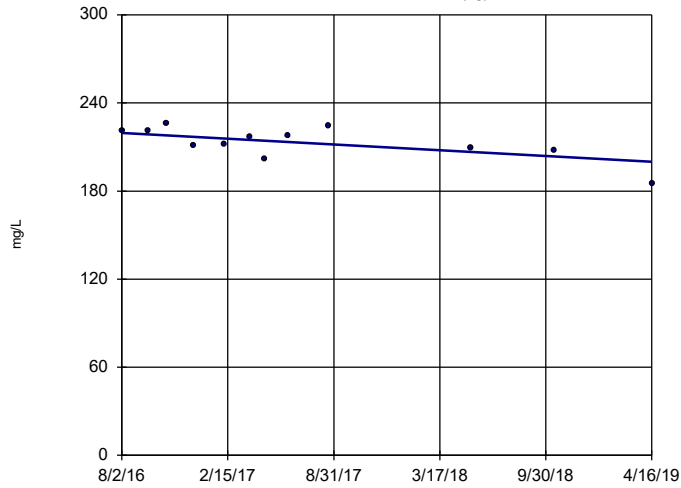


n = 22
 Slope = 1.86
 units per year.
 Mann-Kendall
 statistic = 18
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Tests
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

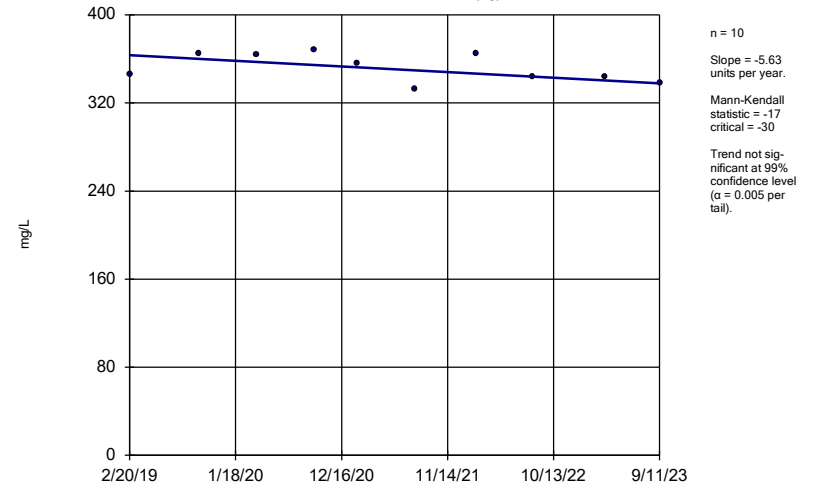
GS-AP-MW-13 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

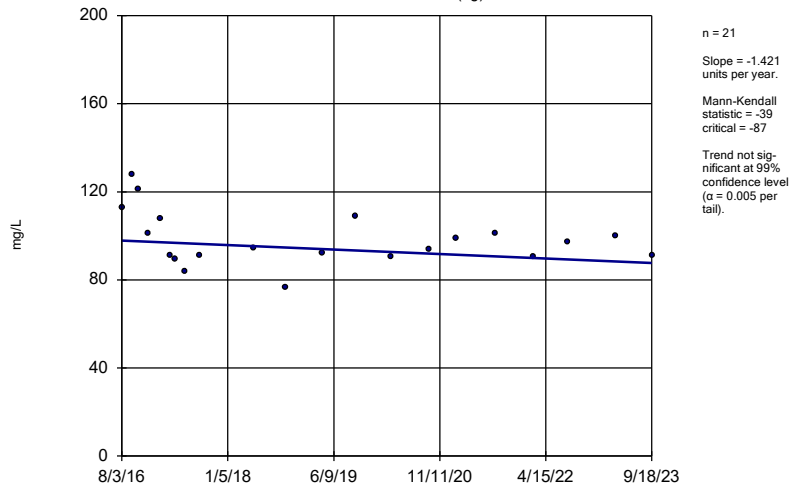
GS-AP-MW-17V (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

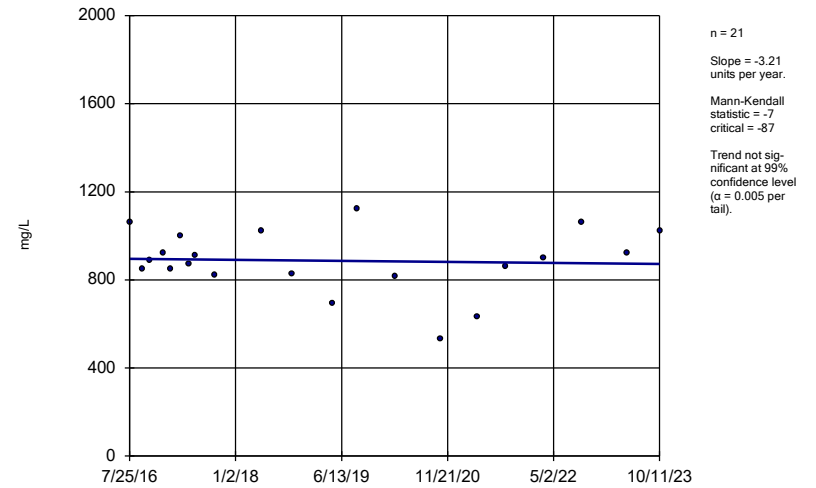
GS-AP-MW-8 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

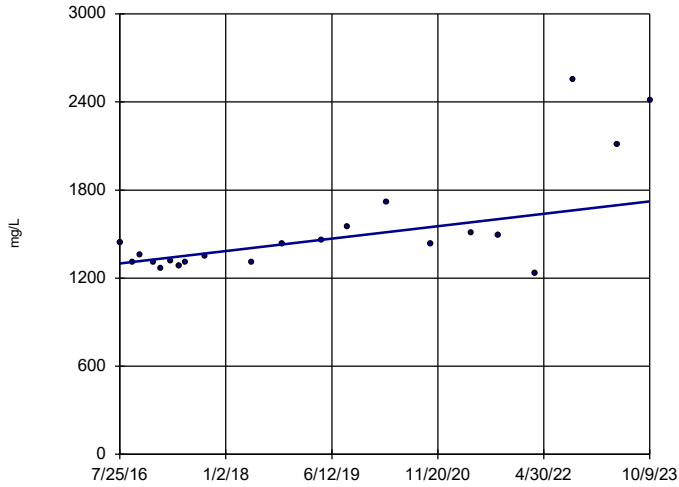
MR-AP-MW-1



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

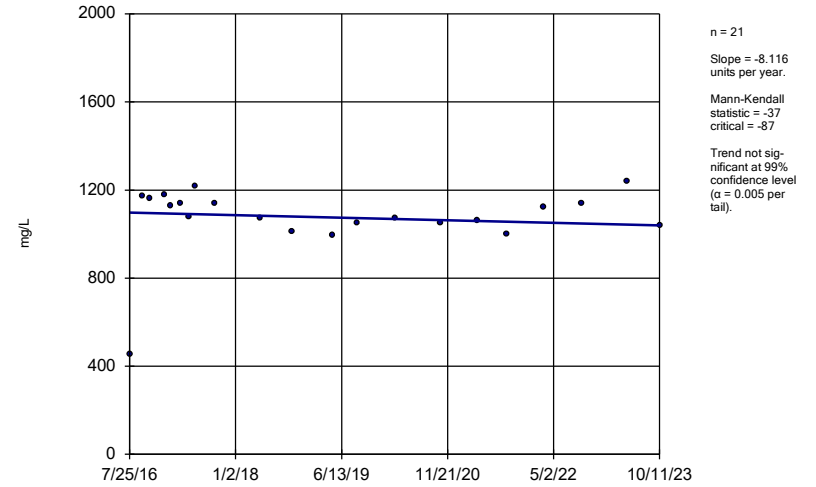
MR-AP-MW-10



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

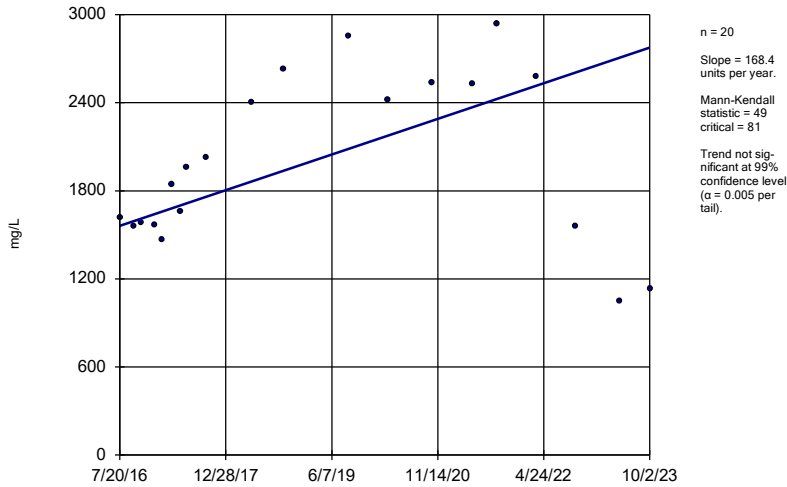
MR-AP-MW-11



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

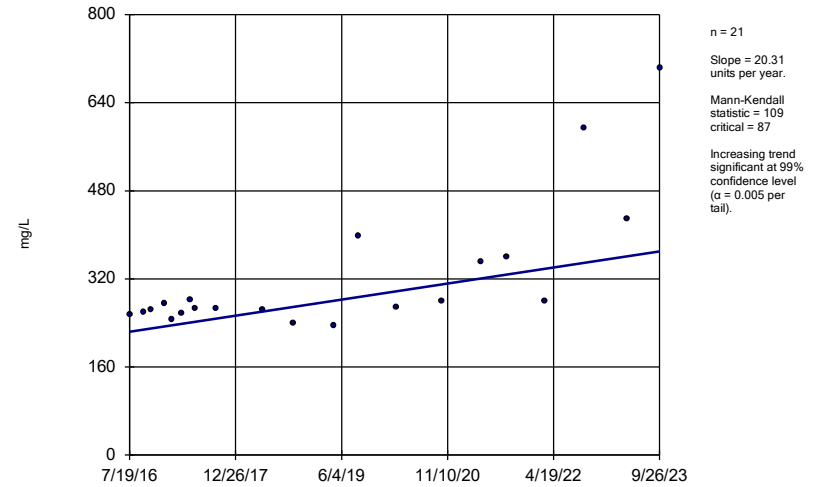
MR-AP-MW-12



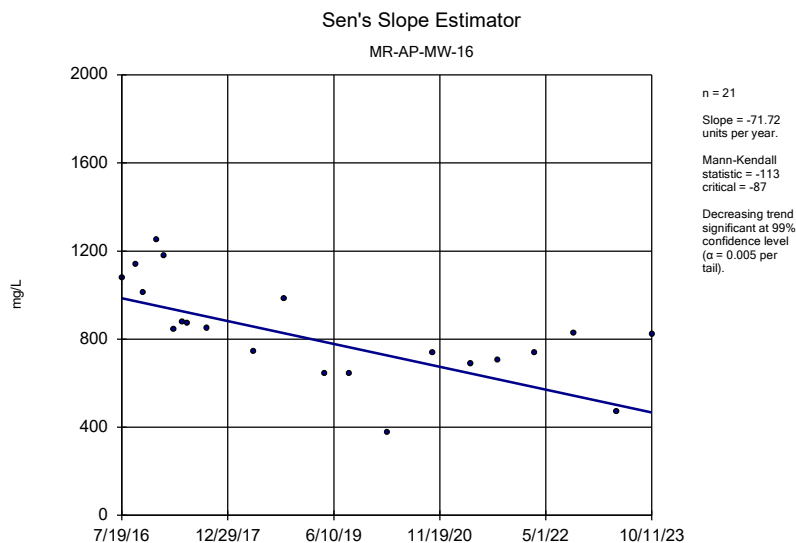
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-15

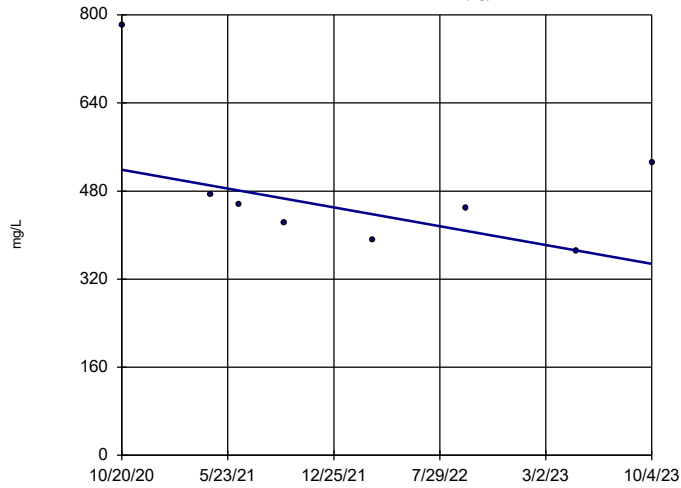


Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
Plant Miller Client: Southern Company Data: Miller Ash Pond



Sen's Slope Estimator

MR-AP-MW-22l (bg)

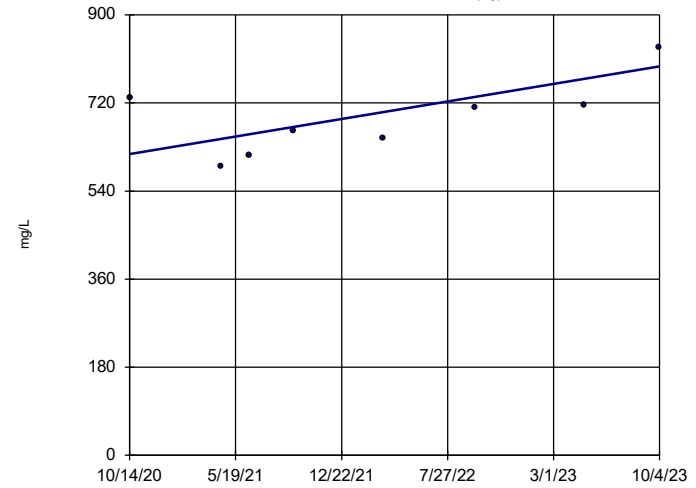


n = 8
 Slope = -57.63
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

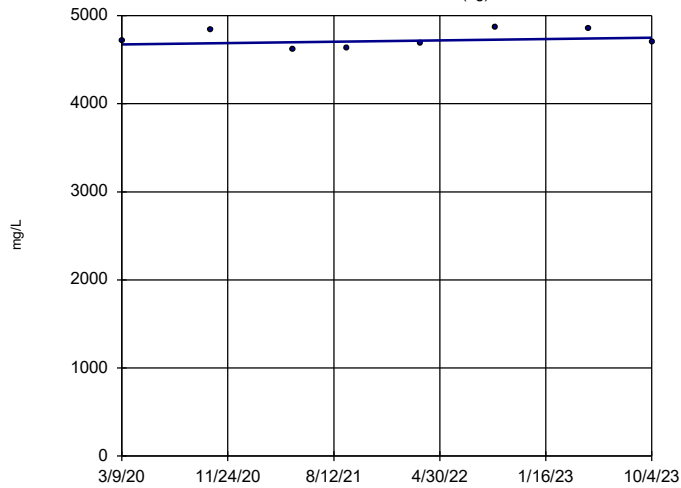


n = 8
 Slope = 60.31
 units per year.
 Mann-Kendall
 statistic = 14
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

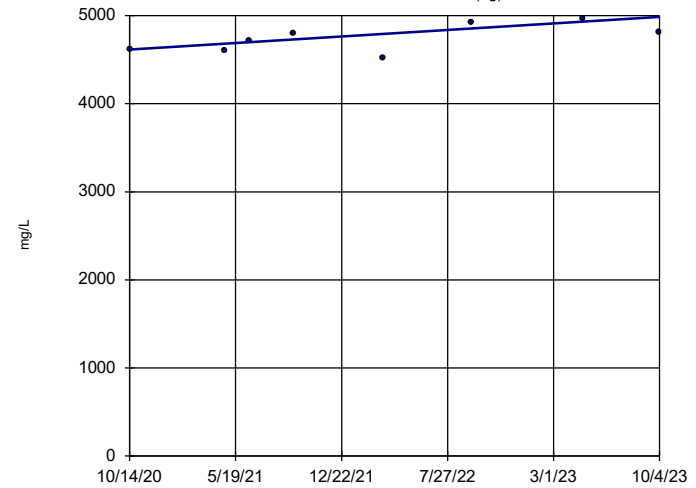


n = 8
 Slope = 21.54
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

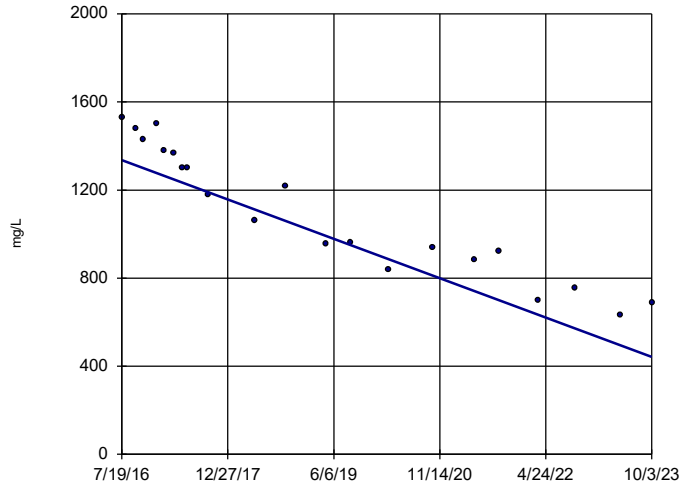


n = 8
 Slope = 124.2
 units per year.
 Mann-Kendall
 statistic = 14
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

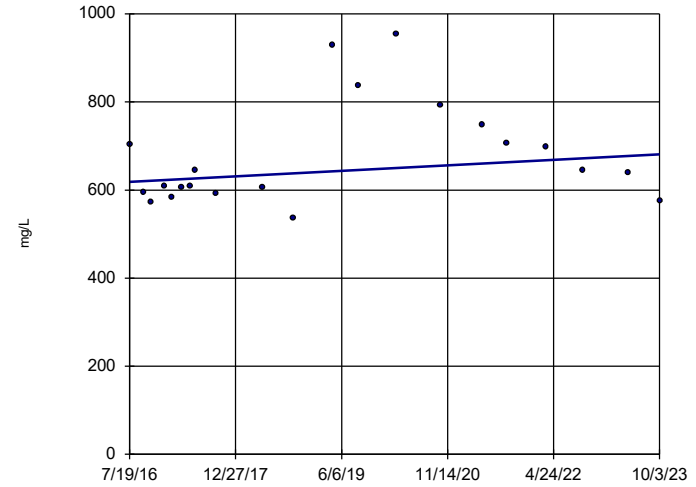


n = 21
 Slope = -124 units per year.
 Mann-Kendall statistic = -187
 critical = -87
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3S

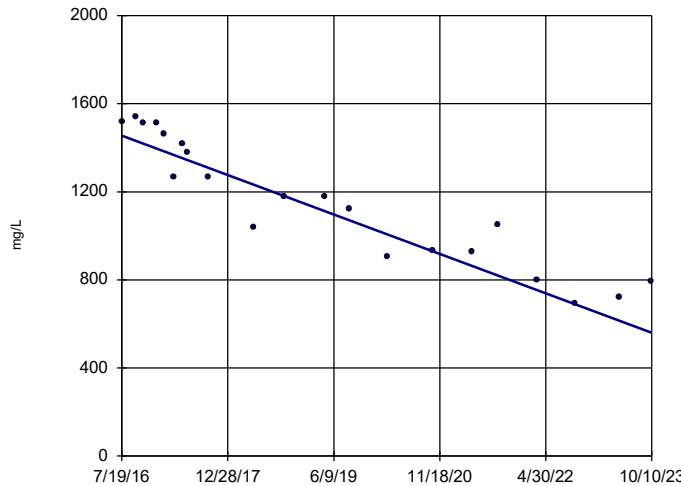


n = 21
 Slope = 8.697 units per year.
 Mann-Kendall statistic = 33
 critical = 87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
 Plant Miller Client: Southern Company Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

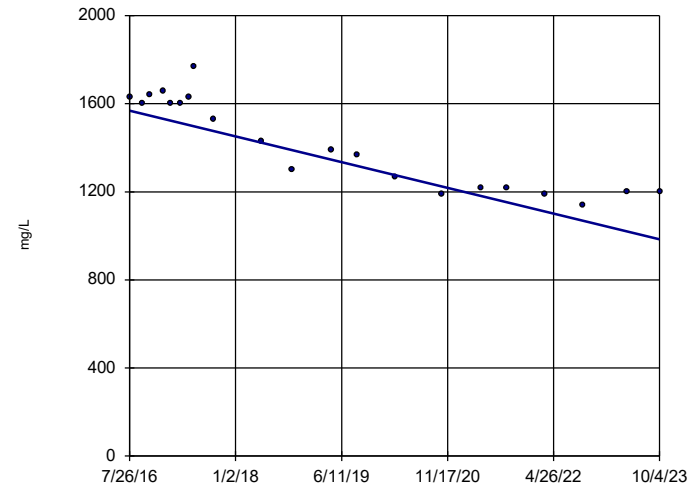


n = 21
 Slope = -123.7 units per year.
 Mann-Kendall statistic = -177
 critical = -87
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
 Plant Miller Client: Southern Company Data: Miller Ash Pond

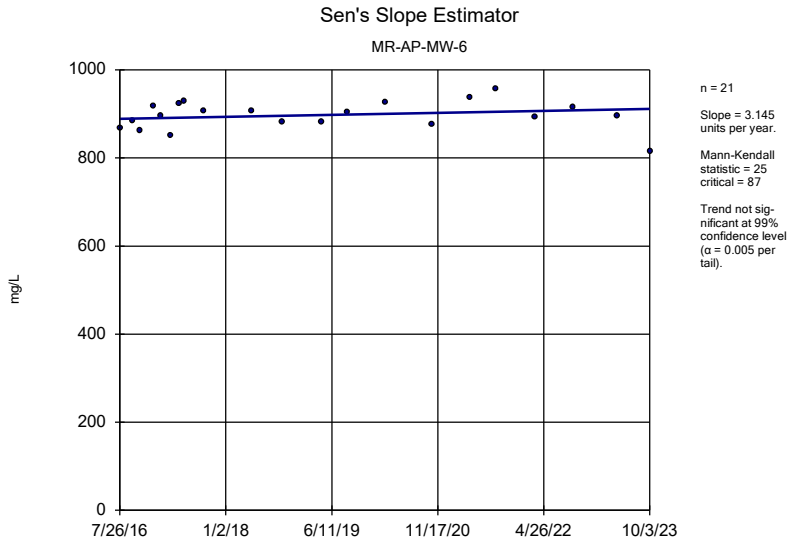
Sen's Slope Estimator

MR-AP-MW-5

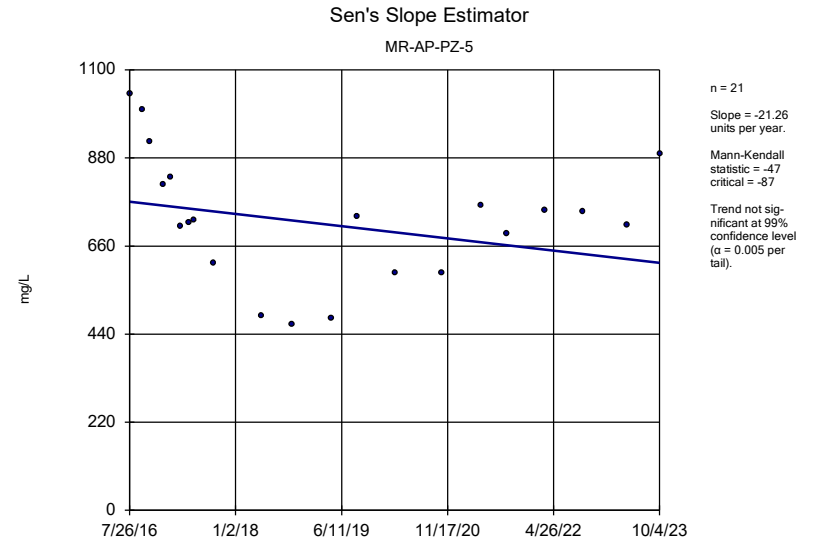


n = 21
 Slope = -81.26 units per year.
 Mann-Kendall statistic = -153
 critical = -87
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
 Plant Miller Client: Southern Company Data: Miller Ash Pond



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
 Plant Miller Client: Southern Company Data: Miller Ash Pond



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/21/2023 3:09 PM View: Appendix III - Trend Te
 Plant Miller Client: Southern Company Data: Miller Ash Pond

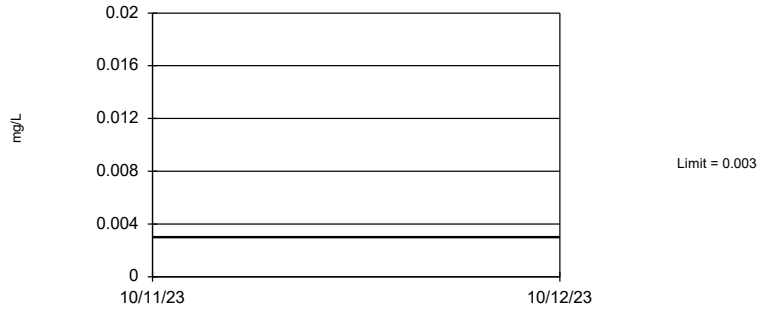
FIGURE I.

Upper Tolerance Limits Summary Table

Plant Miller Data: Miller Ash Pond Printed 12/22/2023, 12:34 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.003	n/a	n/a	n/a	93	n/a	n/a	72.04	n/a	n/a	0.008478 NP Inter
Arsenic (mg/L)	0.00645	n/a	n/a	n/a	93	n/a	n/a	18.28	n/a	n/a	0.008478 NP Inter
Barium (mg/L)	12.8	n/a	n/a	n/a	93	n/a	n/a	0	n/a	n/a	0.008478 NP Inter
Beryllium (mg/L)	0.003	n/a	n/a	n/a	93	n/a	n/a	84.95	n/a	n/a	0.008478 NP Inter
Cadmium (mg/L)	0.001	n/a	n/a	n/a	93	n/a	n/a	84.95	n/a	n/a	0.008478 NP Inter
Chromium (mg/L)	0.01	n/a	n/a	n/a	93	n/a	n/a	35.48	n/a	n/a	0.008478 NP Inter
Cobalt (mg/L)	0.00362	n/a	n/a	n/a	93	n/a	n/a	69.89	n/a	n/a	0.008478 NP Inter
Combined Radium 226 + 228 (pCi/L)	7.76	n/a	n/a	n/a	93	n/a	n/a	0	n/a	n/a	0.008478 NP Inter
Fluoride, total (mg/L)	0.436	n/a	n/a	n/a	95	n/a	n/a	0	n/a	n/a	0.007651 NP Inter
Lead (mg/L)	0.00189	n/a	n/a	n/a	93	n/a	n/a	91.4	n/a	n/a	0.008478 NP Inter
Lithium (mg/L)	1.3	n/a	n/a	n/a	93	n/a	n/a	11.83	n/a	n/a	0.008478 NP Inter
Mercury (mg/L)	0.0005	n/a	n/a	n/a	93	n/a	n/a	84.95	n/a	n/a	0.008478 NP Inter
Molybdenum (mg/L)	0.0282	n/a	n/a	n/a	93	n/a	n/a	34.41	n/a	n/a	0.008478 NP Inter
Selenium (mg/L)	0.01	n/a	n/a	n/a	93	n/a	n/a	84.95	n/a	n/a	0.008478 NP Inter
Thallium (mg/L)	0.001	n/a	n/a	n/a	93	n/a	n/a	84.95	n/a	n/a	0.008478 NP Inter

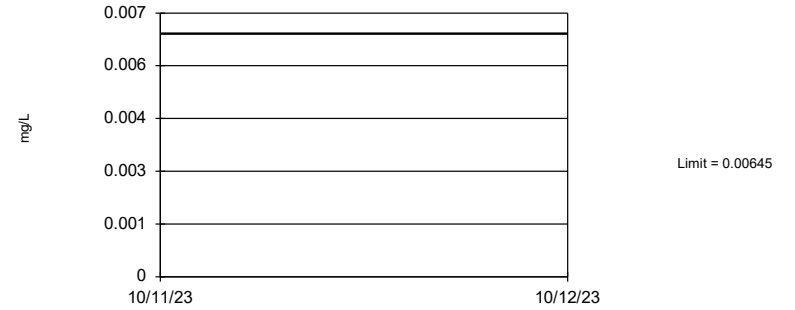
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 72.04% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Antimony Analysis Run 12/22/2023 12:32 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

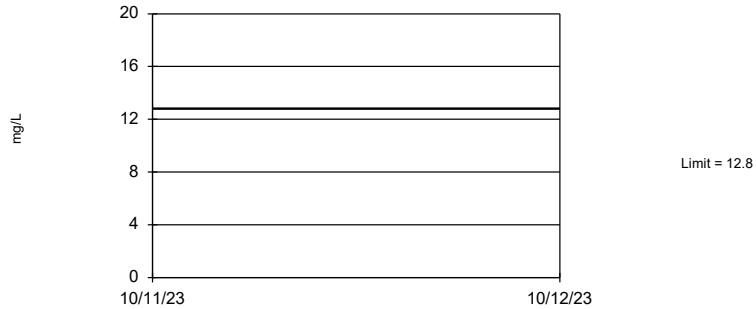
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 18.28% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Arsenic Analysis Run 12/22/2023 12:32 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

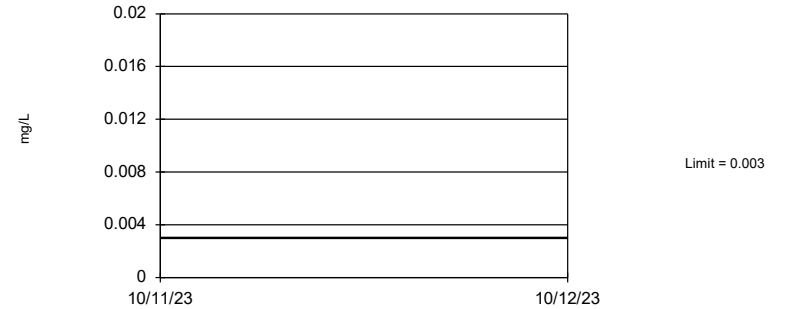
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Barium Analysis Run 12/22/2023 12:32 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

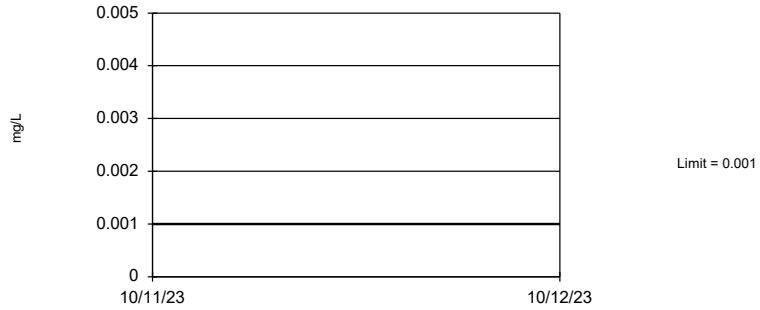
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 84.95% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Beryllium Analysis Run 12/22/2023 12:32 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 84.95% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Cadmium Analysis Run 12/22/2023 12:32 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

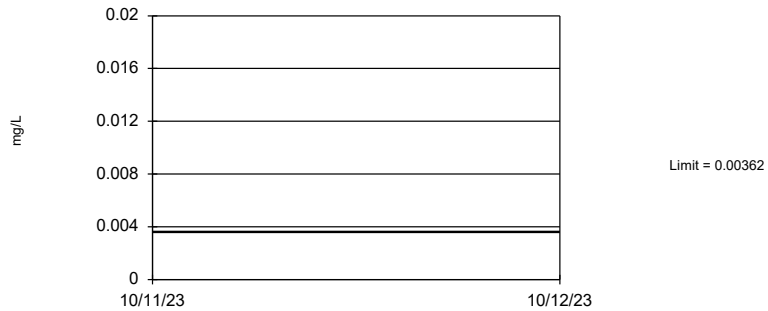
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 35.48% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Chromium Analysis Run 12/22/2023 12:32 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

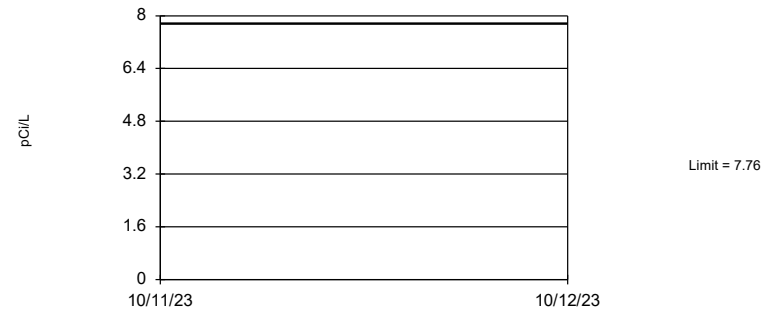
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 69.89% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Cobalt Analysis Run 12/22/2023 12:32 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

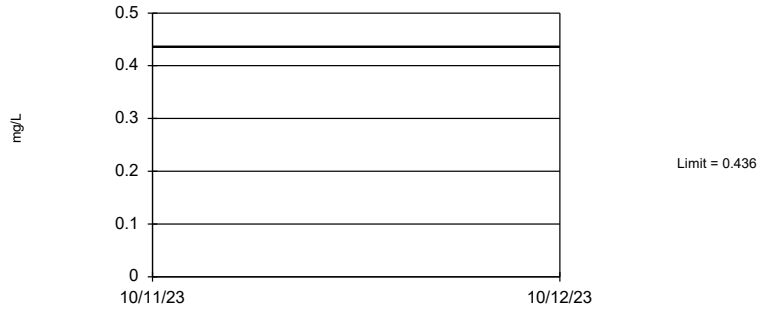
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Combined Radium 226 + 228 Analysis Run 12/22/2023 12:32 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

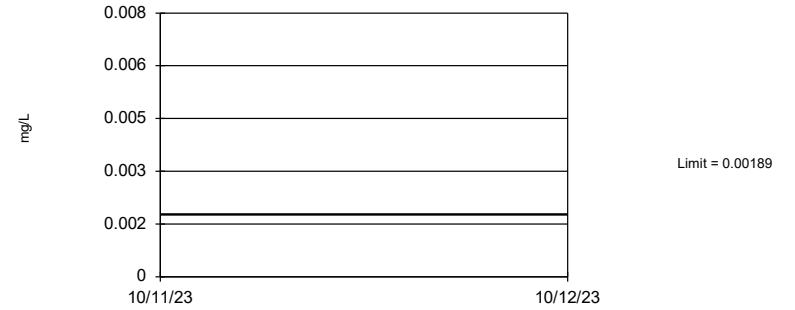
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 95 background values. 95.12% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.007651.

Constituent: Fluoride, total Analysis Run 12/22/2023 12:33 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

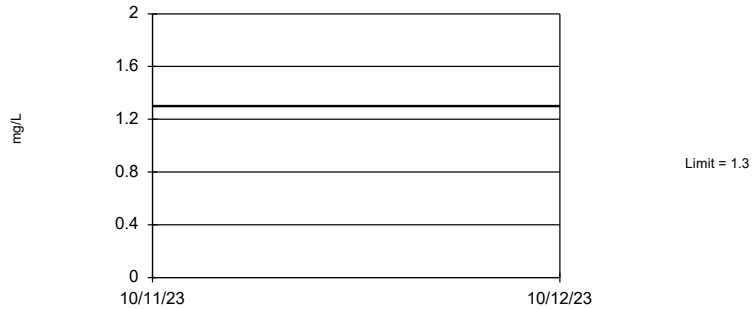
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 91.4% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Lead Analysis Run 12/22/2023 12:33 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

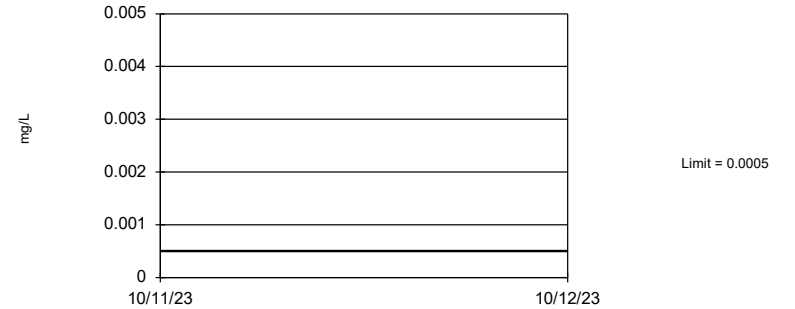
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 11.83% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Lithium Analysis Run 12/22/2023 12:33 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

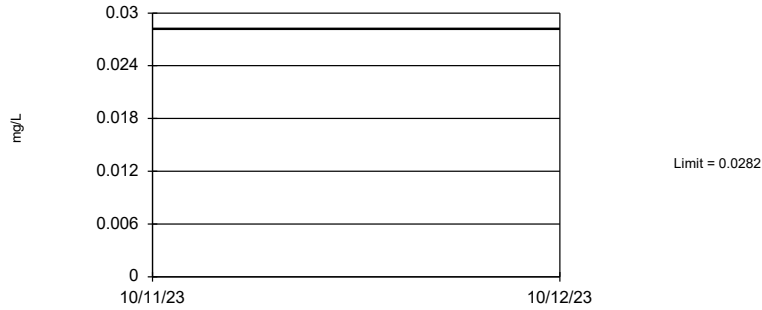
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 84.95% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Mercury Analysis Run 12/22/2023 12:33 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 34.41% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Molybdenum Analysis Run 12/22/2023 12:33 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

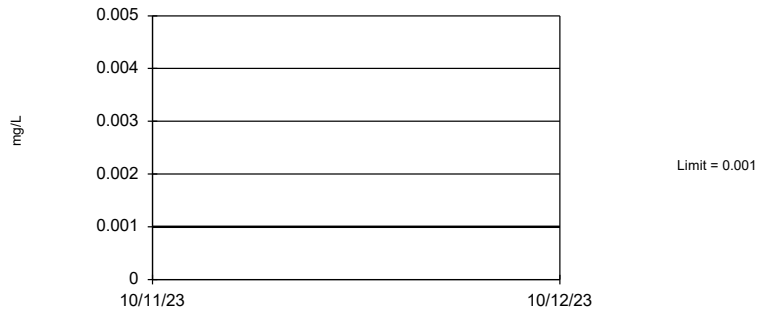
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 84.95% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Selenium Analysis Run 12/22/2023 12:33 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 93 background values. 84.95% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008478.

Constituent: Thallium Analysis Run 12/22/2023 12:33 PM View: Appendix IV UTLs
Plant Miller Data: Miller Ash Pond

FIGURE J.

MILLER AP GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.00645	0.01
Barium	mg/L	12.8	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	0.00362	0.006
Combined Radium-226/228	pCi/L	7.76	5
Fluoride	mg/L	0.436	4
Lead	mg/L	0.00189	0.015
Lithium	mg/L	1.3	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0282	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2023.

FIGURE K.

Appendix IV - Confidence Intervals - Significant Results

Plant Miller Data: Miller Ash Pond Printed 12/15/2023, 2:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MR-AP-MW-3D	0.0139	0.01088	0.01	Yes 8	0.001427	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-13SR	0.09602	0.04477	0.006	Yes 7	0.02895	0	None	x ²	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-2	0.05303	0.03864	0.006	Yes 8	0.006788	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-1	0.2063	0.1197	0.04	Yes 8	0.04086	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-10	0.2999	0.1611	0.04	Yes 8	0.06552	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.3669	0.1563	0.04	Yes 8	0.09933	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-12	0.1891	0.06972	0.04	Yes 8	0.05631	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-16	0.1659	0.05943	0.04	Yes 8	0.05021	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.273	0.211	0.04	Yes 8	0.02838	0	None	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-3D	0.1193	0.09502	0.04	Yes 8	0.01145	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3S	0.351	0.2377	0.04	Yes 8	0.05347	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.07808	0.06034	0.04	Yes 8	0.008368	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.2378	0.1915	0.04	Yes 8	0.02183	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-6	0.09	0.06693	0.04	Yes 8	0.01385	0	None	x ³	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7DR	0.1308	0.1044	0.04	Yes 7	0.0111	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7SR	0.1677	0.1412	0.04	Yes 7	0.01116	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9DR	0.08403	0.06102	0.04	Yes 7	0.009685	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9SR	0.04638	0.04022	0.04	Yes 7	0.002595	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-PZ-5	0.1682	0.128	0.04	Yes 8	0.01898	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-10	0.6893	0.2486	0.1	Yes 8	0.2185	0	None	x ^(1/3)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-12	0.9589	0.3461	0.1	Yes 8	0.2891	0	None	No	0.01	Param.

Appendix IV - Confidence Intervals - All Results

Plant Miller Data: Miller Ash Pond Printed 12/15/2023, 2:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MR-AP-MW-12	0.0255	0.00102	0.006	No	8	0.008965	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-12	0.001015	0.00056	0.006	No	8	0.0002061	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-16	0.001015	0.000768	0.006	No	8	0.00008733	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-3D	0.00447	0.001015	0.006	No	8	0.001222	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-3S	0.00289	0.001015	0.006	No	8	0.0006629	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	MR-AP-MW-6	0.00225	0.001015	0.006	No	8	0.0004366	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-1	0.004083	0.001334	0.01	No	8	0.001439	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-10	0.061	0.00142	0.01	No	8	0.02149	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-11	0.000203	0.00008	0.01	No	8	0.00005685	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-12	0.008543	0.004187	0.01	No	8	0.002055	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-13DR	0.0025	0.000396	0.01	No	7	0.0007477	14.29	None	No	0.008	NP (normality)
Arsenic (mg/L)	MR-AP-MW-13SR	0.002138	0.0009131	0.01	No	7	0.0005157	14.29	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-14R	0.0025	0.000139	0.01	No	7	0.0008706	14.29	None	No	0.008	NP (normality)
Arsenic (mg/L)	MR-AP-MW-15	0.001221	0.0005267	0.01	No	8	0.00194	25	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-16	0.002586	0.000563	0.01	No	8	0.001919	25	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-2	0.00468	0.003	0.01	No	8	0.0007926	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-3D	0.0139	0.01088	0.01	Yes	8	0.001427	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-3S	0.001776	0.0006002	0.01	No	8	0.0006936	12.5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-4	0.005	0.000146	0.01	No	8	0.002191	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	MR-AP-MW-5	0.0128	0.00877	0.01	No	8	0.0019	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-6	0.00086	0.000104	0.01	No	8	0.000245	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MR-AP-MW-7DR	0.002878	0.0003325	0.01	No	7	0.001818	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-7SR	0.002489	0.001545	0.01	No	7	0.0003973	0	None	No	0.01	Param.
Arsenic (mg/L)	MR-AP-MW-9DR	0.0025	0.00051	0.01	No	7	0.0007218	14.29	None	No	0.008	NP (normality)
Arsenic (mg/L)	MR-AP-MW-9SR	0.001314	0.0006015	0.01	No	7	0.0003255	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MR-AP-PZ-5	0.0008969	0.0001033	0.01	No	8	0.000529	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MR-AP-MW-1	0.1804	0.03474	2	No	8	0.0687	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-10	0.02025	0.01295	2	No	8	0.003446	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-11	0.0426	0.0268	2	No	8	0.007457	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-12	0.01913	0.0144	2	No	8	0.00223	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-13DR	0.1171	0.04302	2	No	7	0.03419	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MR-AP-MW-13SR	0.03726	0.01436	2	No	7	0.01057	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MR-AP-MW-14R	0.116	0.0998	2	No	7	0.006049	0	None	No	0.008	NP (normality)
Barium (mg/L)	MR-AP-MW-15	0.04864	0.02396	2	No	8	0.01164	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-16	0.02937	0.01935	2	No	8	0.004725	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-2	0.01873	0.01555	2	No	8	0.001501	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-3D	0.03317	0.025	2	No	8	0.003854	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-3S	0.347	0.13	2	No	8	0.07179	0	None	No	0.004	NP (normality)
Barium (mg/L)	MR-AP-MW-4	0.01773	0.01182	2	No	8	0.002787	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-5	0.01837	0.01556	2	No	8	0.001324	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-6	0.02544	0.02261	2	No	8	0.001338	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-7DR	0.0331	0.0261	2	No	7	0.002343	0	None	No	0.008	NP (normality)
Barium (mg/L)	MR-AP-MW-7SR	0.04469	0.038	2	No	7	0.002814	0	None	No	0.01	Param.
Barium (mg/L)	MR-AP-MW-9DR	0.0408	0.0202	2	No	7	0.009796	0	None	No	0.008	NP (normality)
Barium (mg/L)	MR-AP-MW-9SR	0.0242	0.01602	2	No	7	0.00361	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MR-AP-PZ-5	0.2564	0.1796	2	No	8	0.03621	0	None	No	0.01	Param.
Beryllium (mg/L)	MR-AP-MW-13SR	0.002429	0.001276	0.004	No	7	0.0005798	28.57	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MR-AP-MW-10	0.000203	0.00009	0.005	No	8	0.0000505	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-12	0.000203	0.0000927	0.005	No	8	0.0000446	62.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MR-AP-MW-13SR	0.0006714	0.0000163	0.005	No	7	0.0002578	42.86	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MR-AP-MW-4	0.000203	0.000073	0.005	No	8	0.00005859	75	Kaplan-Meier	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-1	0.00645	0.0008464	0.1	No	8	0.003204	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-10	0.00139	0.000411	0.1	No	8	0.0003739	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-11	0.001015	0.00027	0.1	No	8	0.0003815	50	None	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-12	0.001241	0.0003049	0.1	No	8	0.0005573	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-13DR	0.0005201	0.0001916	0.1	No	7	0.0003559	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-13SR	0.0005537	0.0002168	0.1	No	7	0.0003414	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MR-AP-MW-14R	0.001015	0.000239	0.1	No	7	0.0003628	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	MR-AP-MW-15	0.001015	0.000243	0.1	No	8	0.0003789	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-16	0.001015	0.000239	0.1	No	8	0.0002839	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-2	0.001015	0.00021	0.1	No	8	0.0003649	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-3D	0.001015	0.000259	0.1	No	8	0.0003841	50	None	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-3S	0.01	0.00034	0.1	No	8	0.004395	25	None	No	0.004	NP (normality)
Chromium (mg/L)	MR-AP-MW-4	0.001015	0.000278	0.1	No	8	0.0003658	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-5	0.001015	0.00027	0.1	No	8	0.0002634	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-6	0.001015	0.00023	0.1	No	8	0.0004001	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7DR	0.001015	0.000282	0.1	No	7	0.0003533	71.43	None	No	0.008	NP (NDs)
Chromium (mg/L)	MR-AP-MW-7SR	0.001015	0.000219	0.1	No	7	0.0004181	57.14	None	No	0.008	NP (NDs)

Appendix IV - Confidence Intervals - All Results

Plant Miller Data: Miller Ash Pond Printed 12/15/2023, 2:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	MR-AP-MW-9DR	0.001015	0.00024	0.1	No	7	0.0003927	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	MR-AP-MW-9SR	0.001015	0.0002	0.1	No	7	0.0004169	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	MR-AP-PZ-5	0.001015	0.00021	0.1	No	8	0.0003658	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-1	0.000824	0.00012	0.006	No	8	0.00213	25	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-10	0.001442	0.0003832	0.006	No	8	0.001946	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-11	0.000203	0.000077	0.006	No	8	0.00004455	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-12	0.001582	0.0008784	0.006	No	8	0.001772	25	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-13DR	0.0025	0.00066	0.006	No	7	0.0006451	14.29	None	No	0.008	NP (normality)
Cobalt (mg/L)	MR-AP-MW-13SR	0.09602	0.04477	0.006	Yes	7	0.02895	0	None	x^2	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-14R	0.000203	0.0000688	0.006	No	7	0.00005072	85.71	None	No	0.008	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-15	0.01887	0.00003806	0.006	No	8	0.01204	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-16	0.005581	0.002204	0.006	No	8	0.001593	12.5	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-2	0.05303	0.03864	0.006	Yes	8	0.006788	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-3D	0.004976	0.003664	0.006	No	8	0.0006187	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-3S	0.000203	0.00012	0.006	No	8	0.00002934	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MR-AP-MW-4	0.01035	0.002807	0.006	No	8	0.003558	0	None	No	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-6	0.01175	0.004573	0.006	No	8	0.00455	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	MR-AP-MW-7SR	0.0025	0.000604	0.006	No	7	0.0006914	14.29	None	No	0.008	NP (normality)
Cobalt (mg/L)	MR-AP-MW-9DR	0.0025	0.00009	0.006	No	7	0.0008928	14.29	None	No	0.008	NP (normality)
Cobalt (mg/L)	MR-AP-MW-9SR	0.0025	0.000115	0.006	No	7	0.0008665	14.29	None	No	0.008	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-1	1.153	0.3678	5	No	8	0.3705	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-10	1.152	0.3523	5	No	8	0.3771	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-11	0.6514	0.1597	5	No	8	0.2319	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-12	1.041	0.2774	5	No	8	0.4056	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13DR	0.8391	0.3461	5	No	7	0.2075	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-13SR	1.325	0.6861	5	No	7	0.3055	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-14R	0.795	-0.01932	5	No	7	0.3428	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-15	0.9071	0.2509	5	No	8	0.3502	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-16	0.5483	0.0995	5	No	8	0.2117	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-2	0.8244	0.3604	5	No	8	0.2189	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3D	1.054	0.06364	5	No	8	0.467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-3S	0.8435	-0.004058	5	No	8	0.3998	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-4	0.5915	0.1985	5	No	8	0.1854	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-5	1.227	0.1908	5	No	8	0.489	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-6	0.4593	0.108	5	No	8	0.1657	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7DR	1.14	0.07909	5	No	7	0.4467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-7SR	0.8432	0.2893	5	No	7	0.2332	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9DR	1.073	0.2525	5	No	7	0.3456	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-MW-9SR	0.5965	0.1589	5	No	7	0.1842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MR-AP-PZ-5	0.8597	0.09613	5	No	8	0.3602	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-1	0.1828	0.1509	4	No	8	0.01507	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-10	1.245	0.4989	4	No	8	0.4497	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-11	0.1499	0.09888	4	No	8	0.02409	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-12	1.153	0.8865	4	No	8	0.1256	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-13DR	0.2375	0.129	4	No	7	0.04568	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-13SR	0.5798	0.1747	4	No	7	0.1705	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-14R	0.215	0.166	4	No	7	0.0177	0	None	No	0.008	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-15	0.1276	0.09447	4	No	8	0.02087	12.5	None	x^3	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-16	0.1705	0.139	4	No	8	0.01486	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-2	0.3361	0.2095	4	No	8	0.06337	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-3D	0.4119	0.3111	4	No	8	0.04751	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-3S	0.3342	0.275	4	No	8	0.02793	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-4	0.2552	0.1656	4	No	8	0.04225	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-5	0.4268	0.3832	4	No	8	0.02054	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-6	0.1576	0.07805	4	No	8	0.03755	12.5	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-7DR	0.16	0.109	4	No	7	0.01625	28.57	None	No	0.008	NP (normality)
Fluoride, total (mg/L)	MR-AP-MW-7SR	0.2461	0.1759	4	No	7	0.02955	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-9DR	0.2427	0.1093	4	No	7	0.05614	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-MW-9SR	0.1541	0.09348	4	No	7	0.02551	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MR-AP-PZ-5	2.379	2.021	4	No	8	0.197	0	None	x^6	0.01	Param.
Lead (mg/L)	MR-AP-MW-12	0.000224	0.000203	0.015	No	8	0.000007425	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	MR-AP-MW-13DR	0.000203	0.000121	0.015	No	7	0.00003099	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	MR-AP-MW-13SR	0.0008006	0.00006698	0.015	No	7	0.0003312	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	MR-AP-MW-3D	0.000203	0.000084	0.015	No	8	0.00004207	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MR-AP-MW-4	0.000203	0.000069	0.015	No	8	0.00004738	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MR-AP-MW-6	0.000203	0.000107	0.015	No	8	0.00003394	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MR-AP-PZ-5	0.000355	0.000203	0.015	No	8	0.00005374	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	MR-AP-MW-1	0.2063	0.1197	0.04	Yes	8	0.04086	0	None	No	0.01	Param.

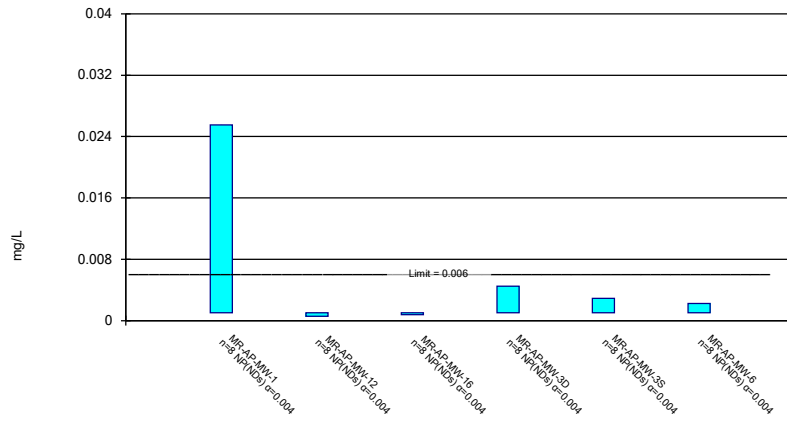
Appendix IV - Confidence Intervals - All Results

Plant Miller Data: Miller Ash Pond Printed 12/15/2023, 2:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MR-AP-MW-10	0.2999	0.1611	0.04	Yes	8	0.06552	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-11	0.3669	0.1563	0.04	Yes	8	0.09933	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-12	0.1891	0.06972	0.04	Yes	8	0.05631	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13DR	0.04104	0.03191	0.04	No	7	0.003844	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-13SR	0.0475	0.0199	0.04	No	7	0.009463	0	None	No	0.008	NP (normality)
Lithium (mg/L)	MR-AP-MW-14R	0.0212	0.0198	0.04	No	7	0.0005888	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-15	0.023	0.0177	0.04	No	8	0.00201	0	None	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-16	0.1659	0.05943	0.04	Yes	8	0.05021	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-2	0.273	0.211	0.04	Yes	8	0.02838	0	None	No	0.004	NP (normality)
Lithium (mg/L)	MR-AP-MW-3D	0.1193	0.09502	0.04	Yes	8	0.01145	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-3S	0.351	0.2377	0.04	Yes	8	0.05347	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-4	0.07808	0.06034	0.04	Yes	8	0.008368	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-5	0.2378	0.1915	0.04	Yes	8	0.02183	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-6	0.09	0.06693	0.04	Yes	8	0.01385	0	None	x^3	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7DR	0.1308	0.1044	0.04	Yes	7	0.0111	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-7SR	0.1677	0.1412	0.04	Yes	7	0.01116	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9DR	0.08403	0.06102	0.04	Yes	7	0.009685	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-MW-9SR	0.04638	0.04022	0.04	Yes	7	0.002595	0	None	No	0.01	Param.
Lithium (mg/L)	MR-AP-PZ-5	0.1682	0.128	0.04	Yes	8	0.01898	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-1	0.01109	0.004673	0.1	No	8	0.003147	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-10	0.6893	0.2486	0.1	Yes	8	0.2185	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-11	0.01015	0.00039	0.1	No	8	0.004985	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-12	0.9589	0.3461	0.1	Yes	8	0.2891	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-13DR	0.005106	0.00225	0.1	No	7	0.00338	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-13SR	0.01015	0.00011	0.1	No	7	0.004704	28.57	None	No	0.008	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-14R	0.01015	0.00009	0.1	No	7	0.00536	57.14	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-15	0.01015	0.00008	0.1	No	8	0.005133	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MR-AP-MW-16	0.07439	0.02978	0.1	No	8	0.02104	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-2	0.01015	0.00166	0.1	No	8	0.004093	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-3D	0.02791	0.02439	0.1	No	8	0.001657	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-3S	0.0668	0.0449	0.1	No	8	0.008795	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-4	0.01015	0.00007	0.1	No	8	0.00537	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-5	0.09509	0.07138	0.1	No	8	0.01119	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-6	0.01015	0.00135	0.1	No	8	0.004305	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-7DR	0.006722	0.003806	0.1	No	7	0.001227	14.29	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-7SR	0.03568	0.02903	0.1	No	7	0.002799	0	None	No	0.01	Param.
Molybdenum (mg/L)	MR-AP-MW-9DR	0.01015	0.000304	0.1	No	7	0.005145	42.86	None	No	0.008	NP (normality)
Molybdenum (mg/L)	MR-AP-MW-9SR	0.001793	0.0002408	0.1	No	7	0.004548	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	MR-AP-PZ-5	0.01015	0.000184	0.1	No	8	0.00526	50	None	No	0.004	NP (normality)
Selenium (mg/L)	MR-AP-MW-13SR	0.001015	0.000598	0.05	No	7	0.0001576	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	MR-AP-MW-16	0.004993	0.0009223	0.05	No	8	0.002228	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	MR-AP-MW-4	0.00112	0.000539	0.05	No	8	0.0001891	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Thallium (mg/L)	MR-AP-MW-13SR	0.0003279	0.00006039	0.002	No	7	0.0001459	14.29	None	x^(1/3)	0.01	Param.
Thallium (mg/L)	MR-AP-MW-16	0.000203	0.00007	0.002	No	8	0.00006115	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	MR-AP-MW-4	0.000203	0.00007	0.002	No	8	0.00004702	87.5	None	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

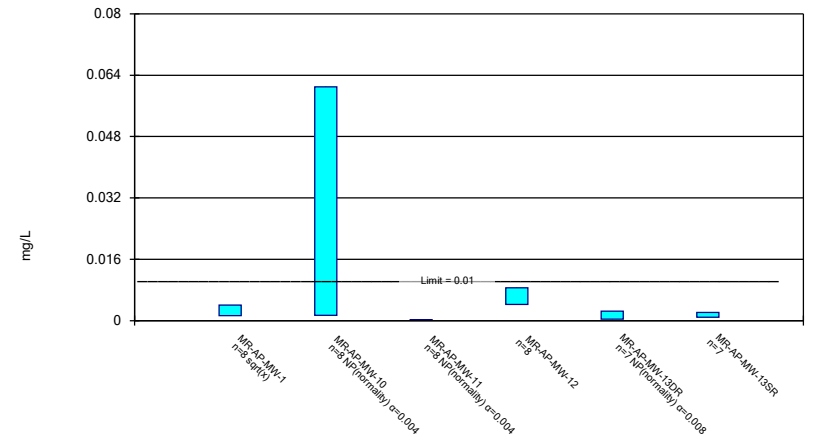
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

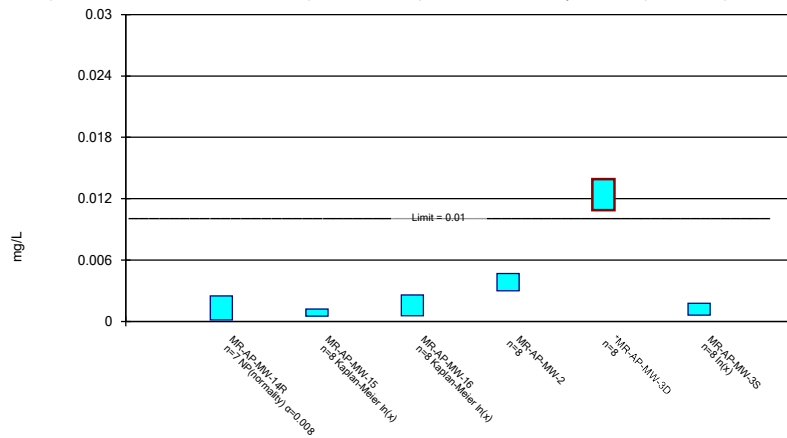
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Constituent: Arsenic Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

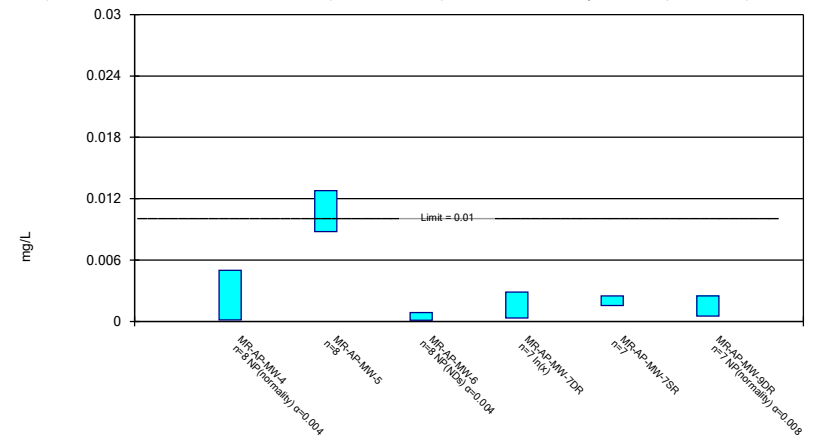
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Constituent: Arsenic Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

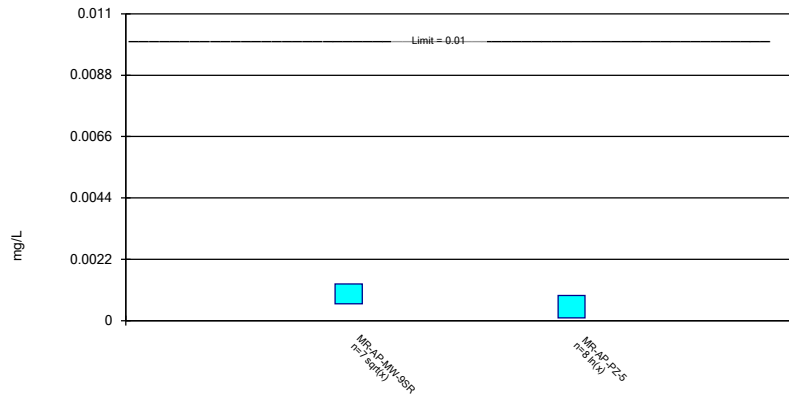
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

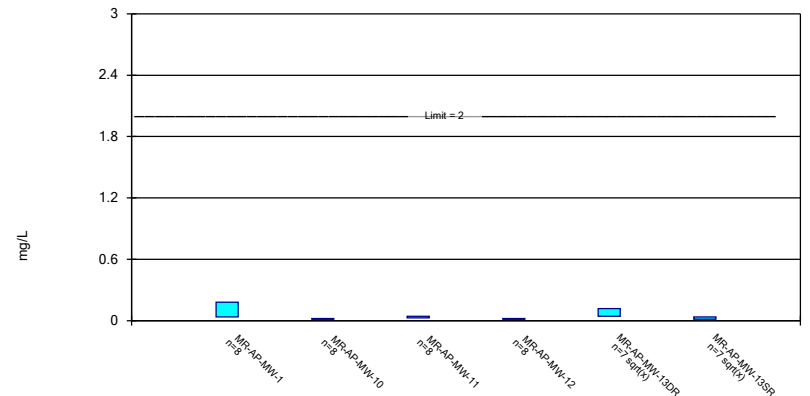
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

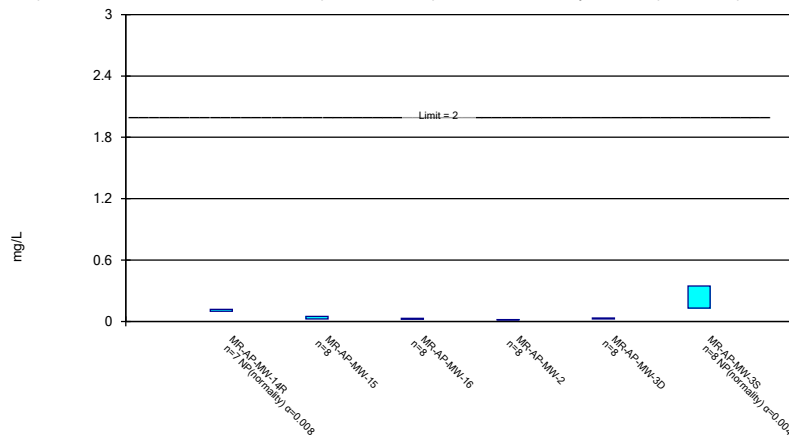
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

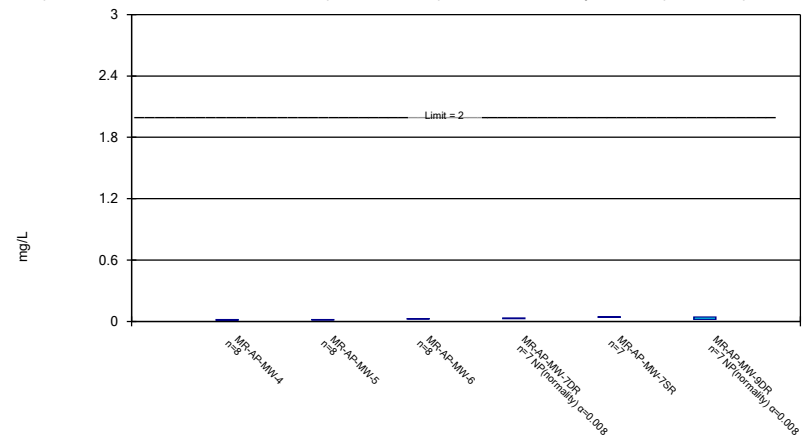
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

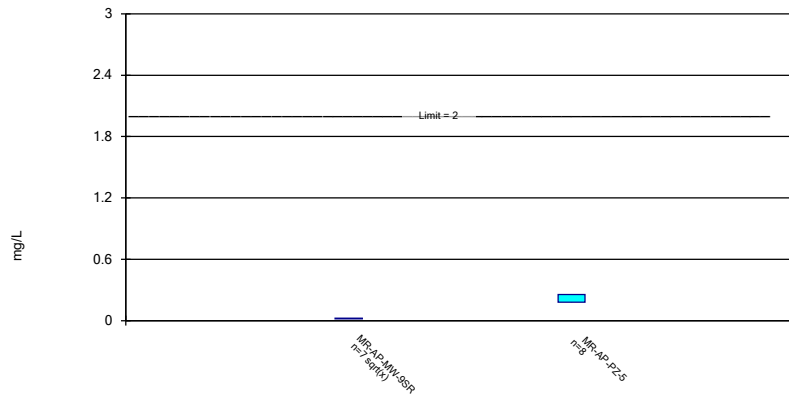
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

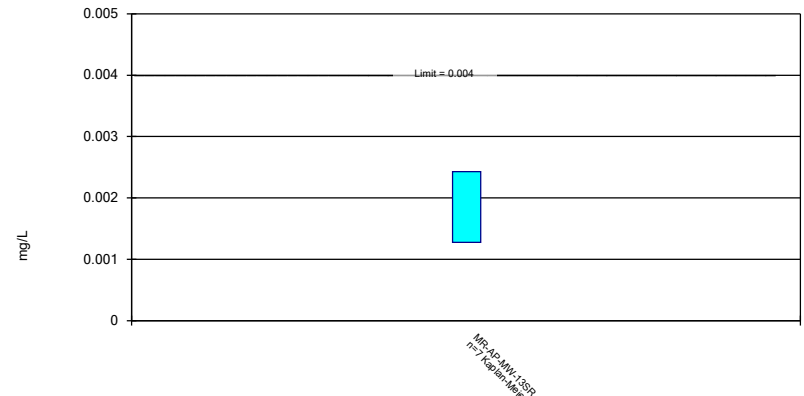
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

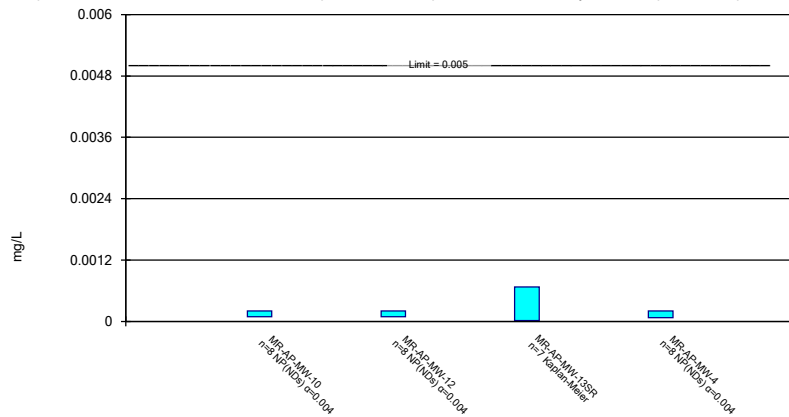
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

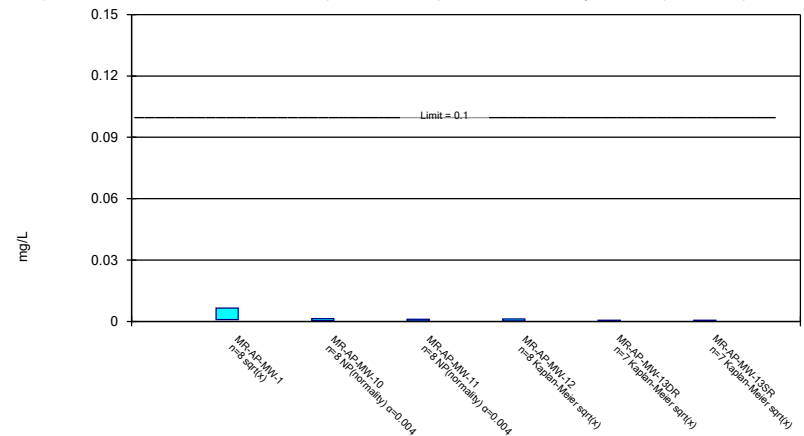
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

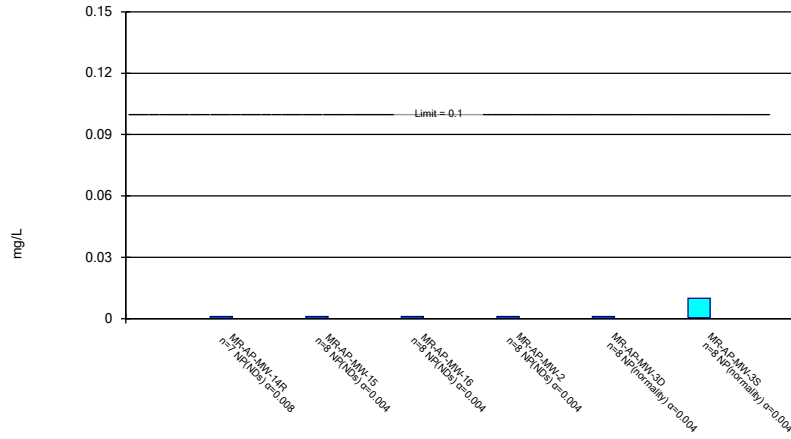
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Non-Parametric Confidence Interval

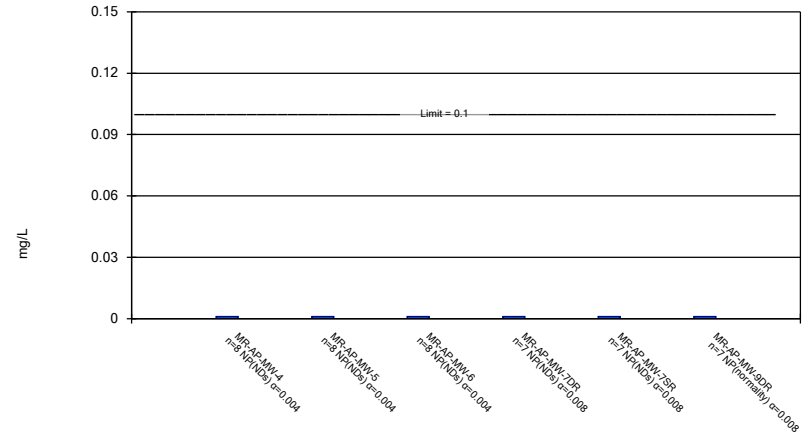
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Non-Parametric Confidence Interval

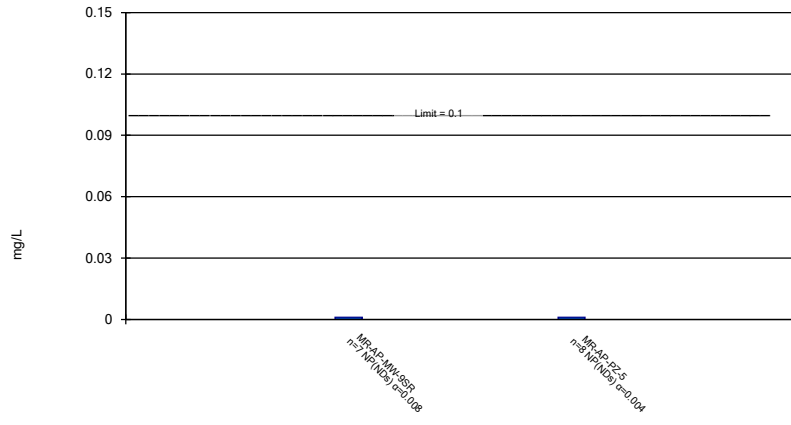
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Non-Parametric Confidence Interval

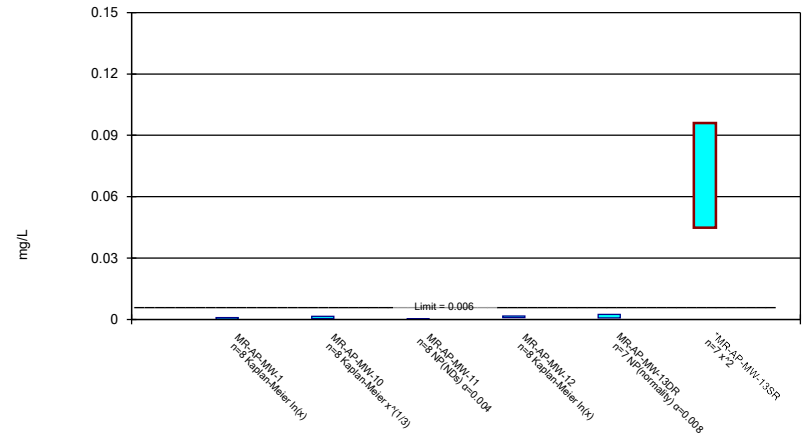
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

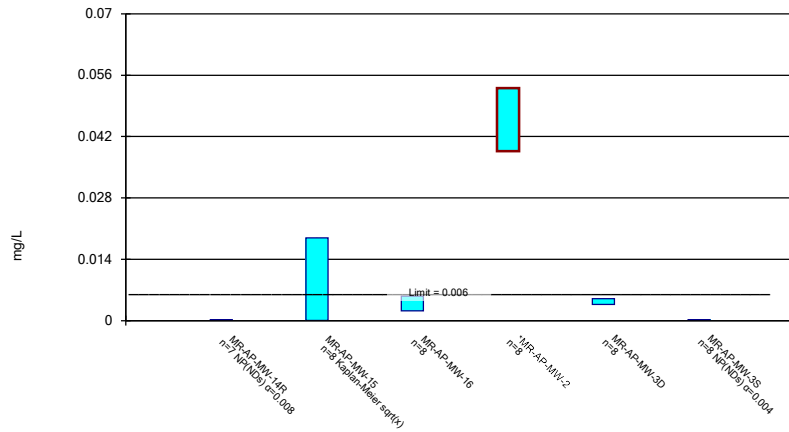
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

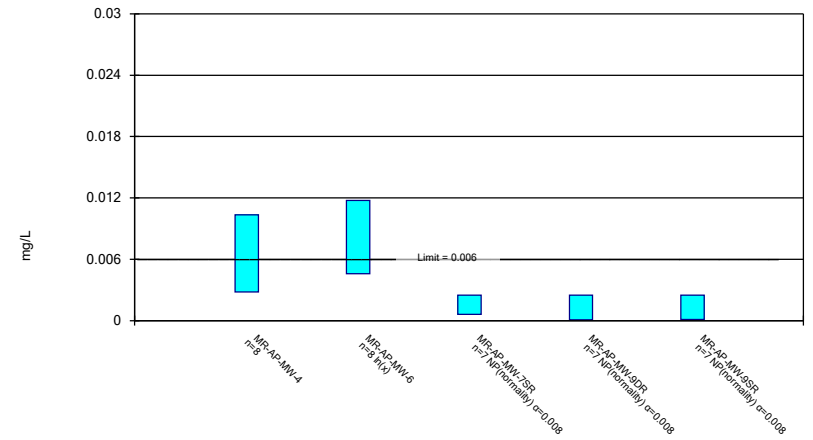
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

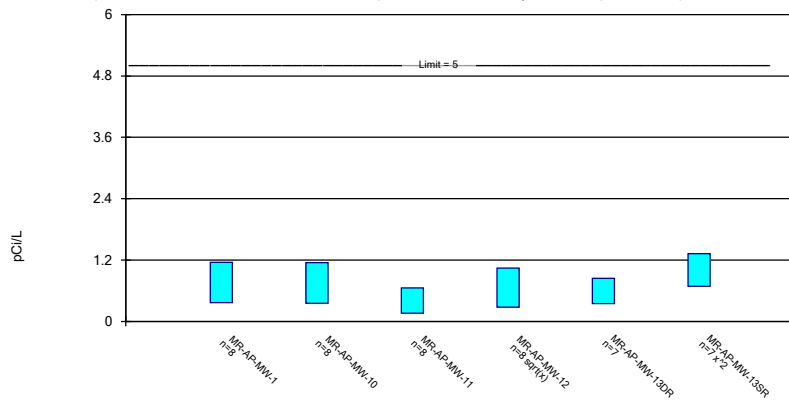
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

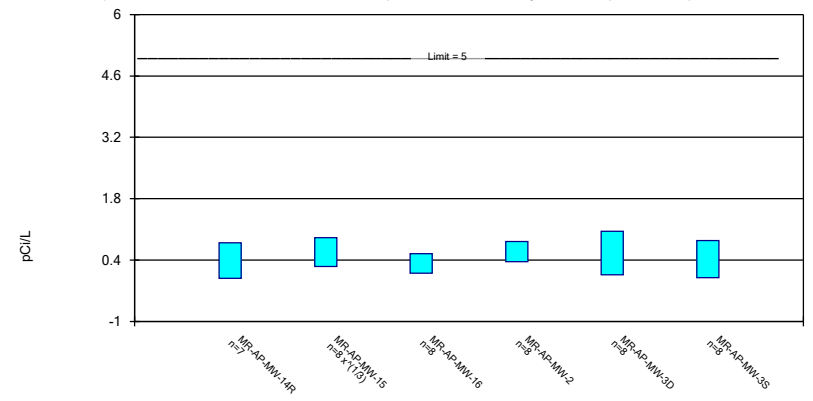
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confide
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

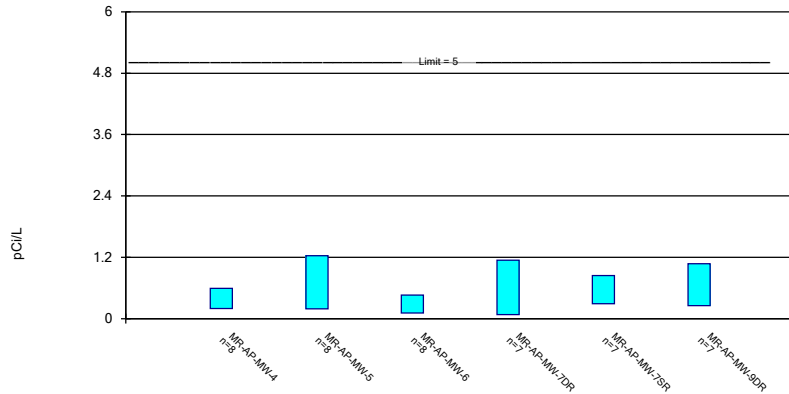
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confide
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

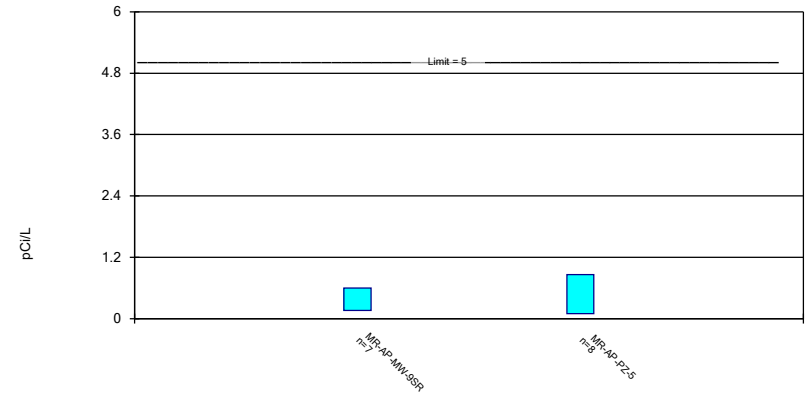
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

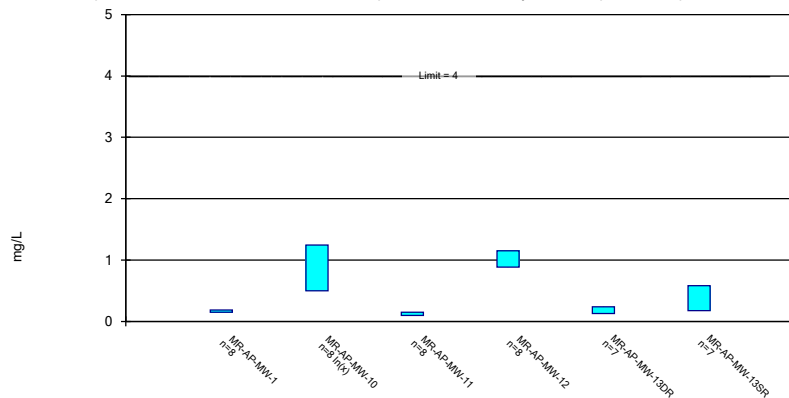
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

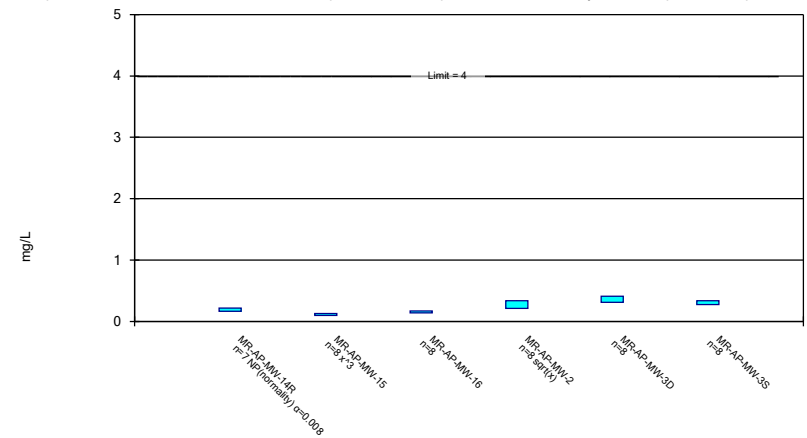
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

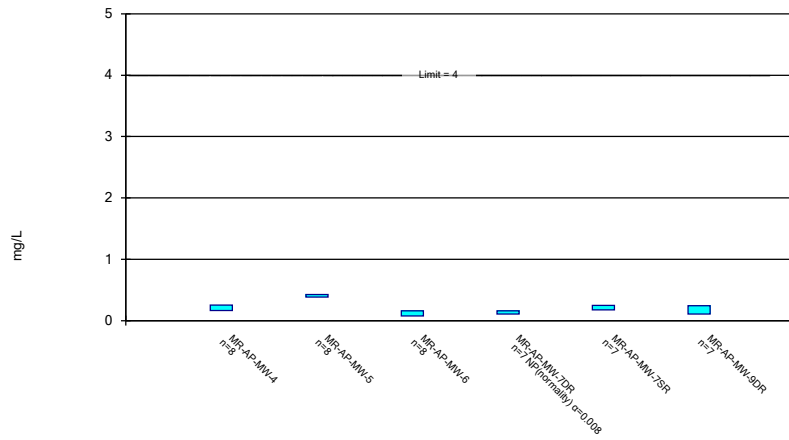
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

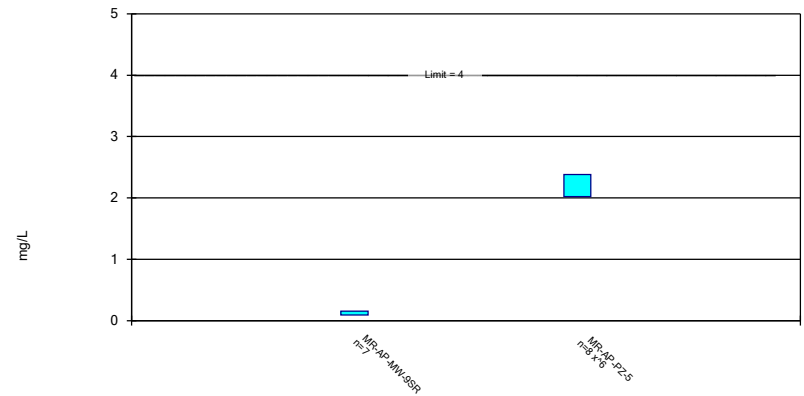
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

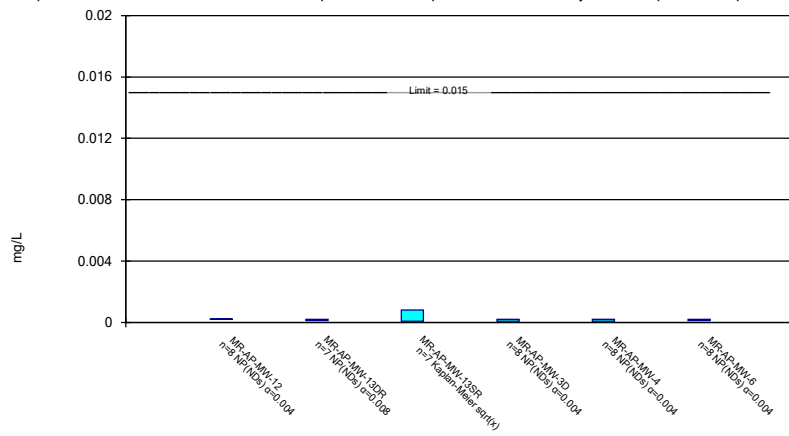
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

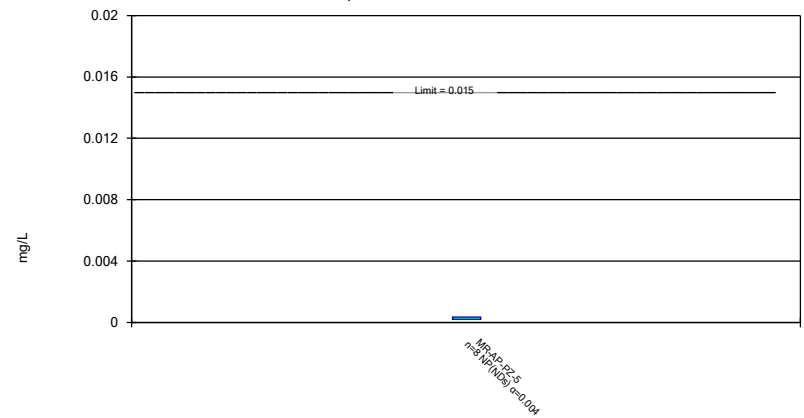
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Non-Parametric Confidence Interval

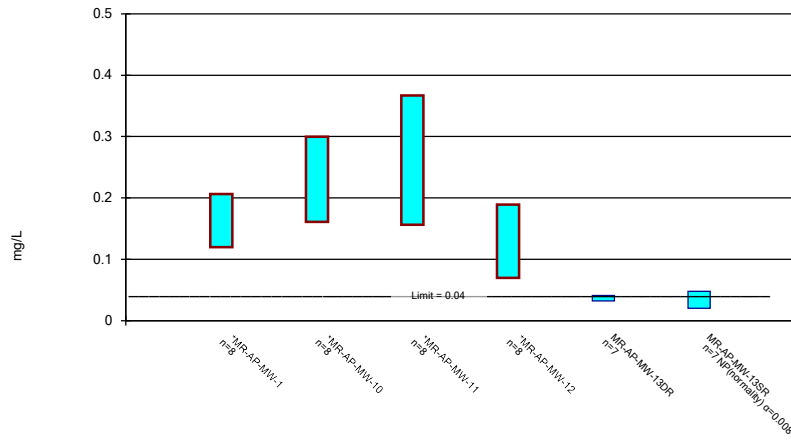
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

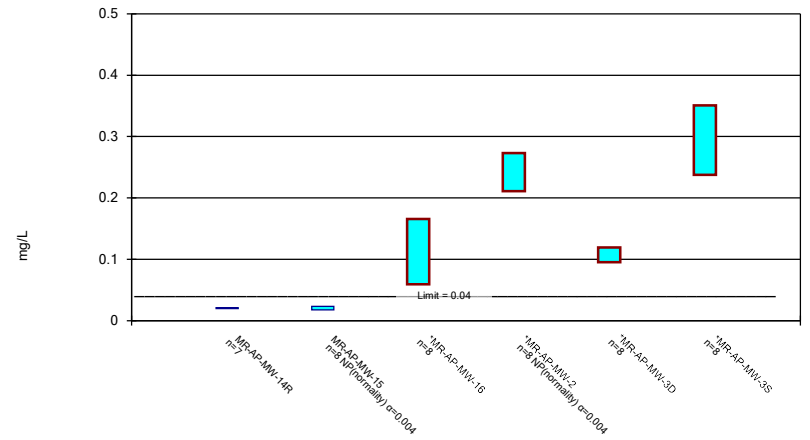
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

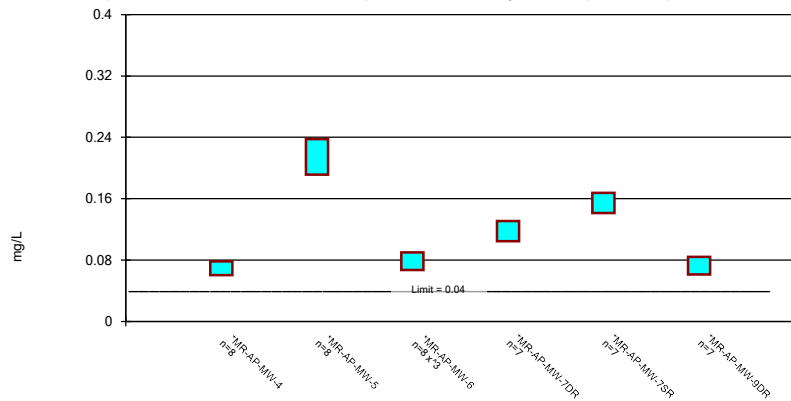
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

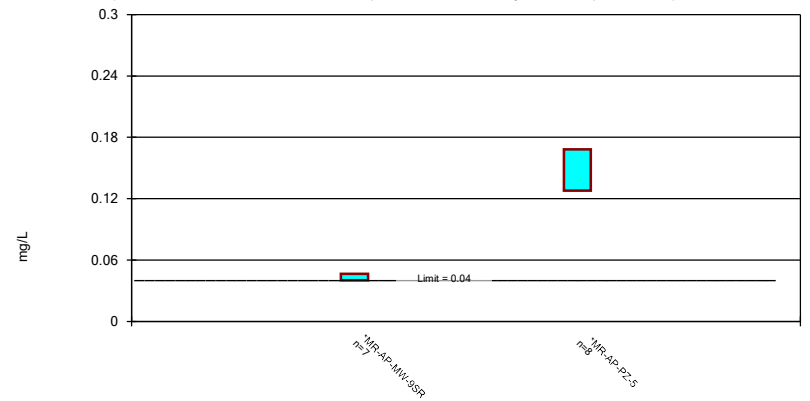
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric Confidence Interval

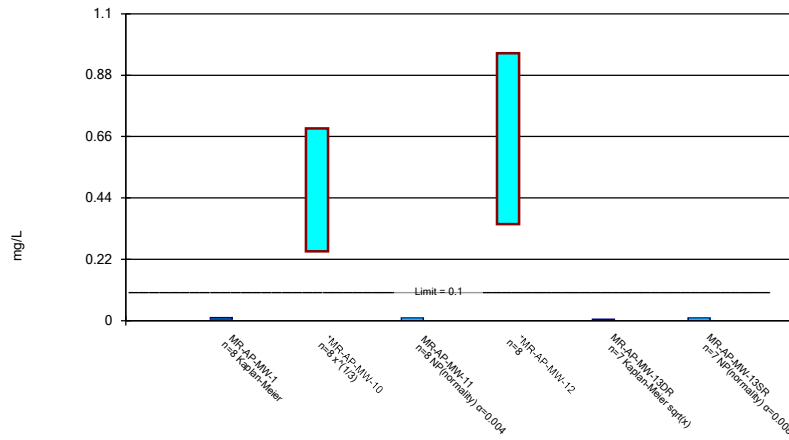
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/15/2023 2:49 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

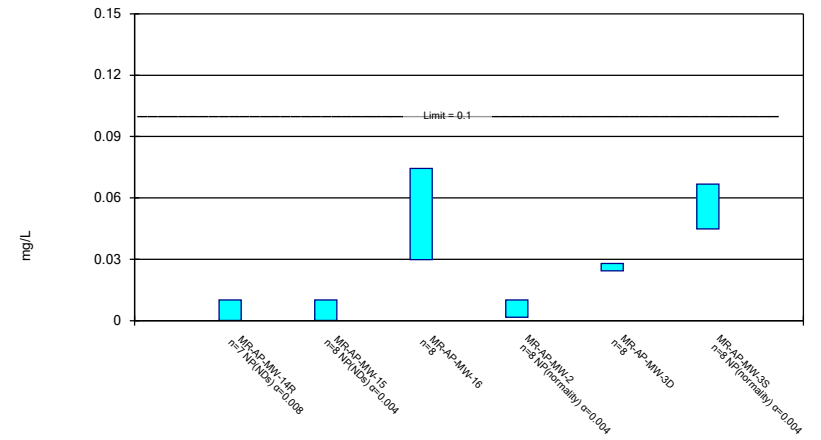
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 12/15/2023 2:50 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

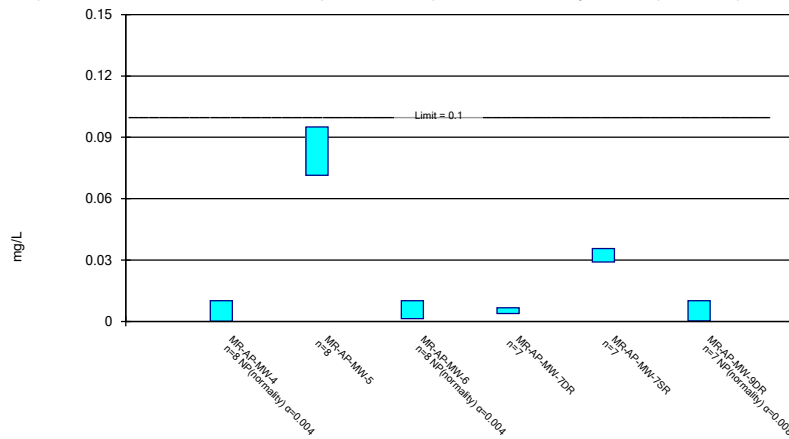
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 12/15/2023 2:50 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

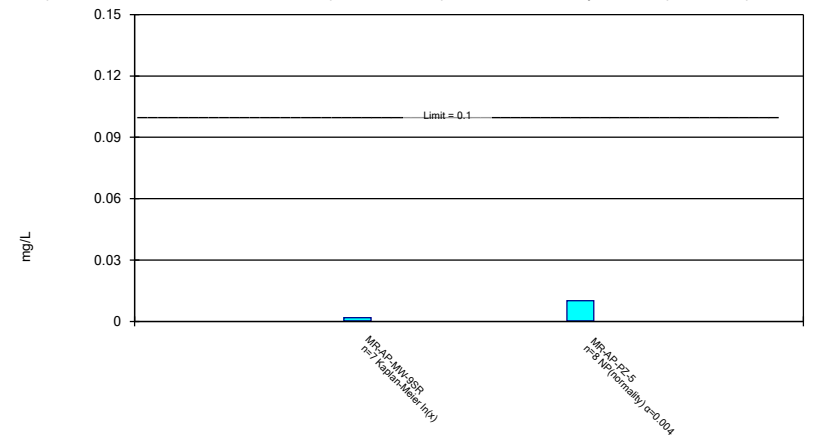
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 12/15/2023 2:50 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

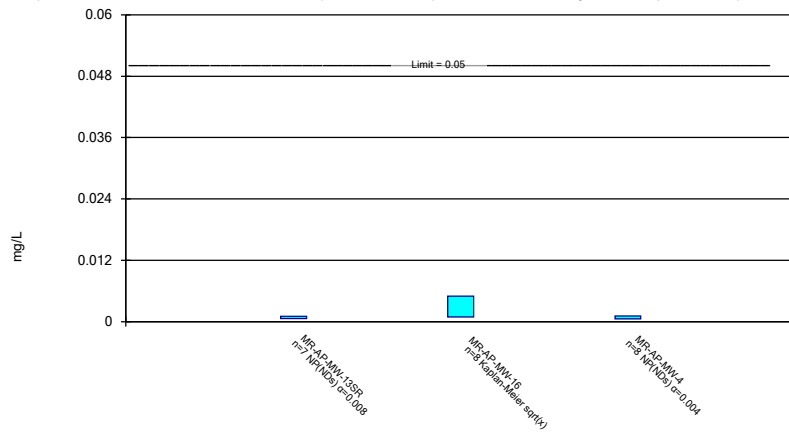
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 12/15/2023 2:50 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

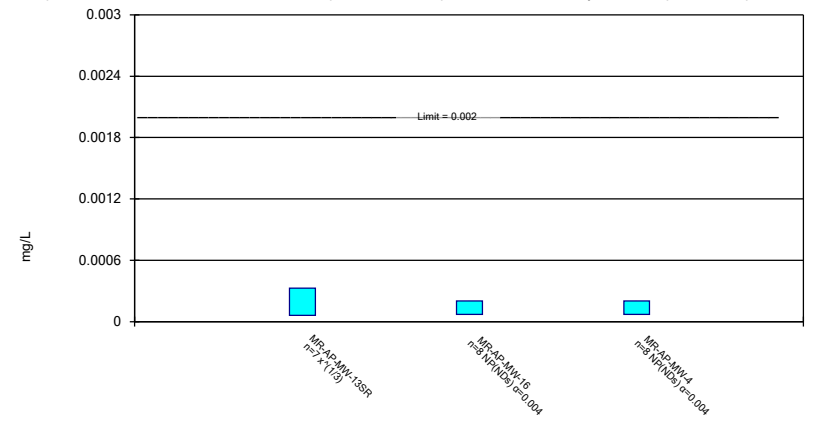
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 12/15/2023 2:50 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 12/15/2023 2:50 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-12	MR-AP-MW-16	MR-AP-MW-3D	MR-AP-MW-3S	MR-AP-MW-6
3/3/2020			<0.001015	<0.001015	<0.001015	<0.001015
3/9/2020	<0.00102					
3/10/2020		<0.001015				
10/13/2020			<0.001015	<0.001015	<0.001015	
10/19/2020	<0.00102	<0.001015				
10/20/2020						<0.001015
4/20/2021	<0.00102					
4/21/2021			0.000768 (J)			
4/28/2021						<0.001015
5/5/2021		<0.001015		<0.001015	<0.001015	
9/1/2021			<0.001015			<0.001015
9/7/2021		0.00056 (J)		<0.001015	<0.001015	
9/8/2021	<0.00102					
3/8/2022			<0.001015			
3/15/2022	<0.00102					
3/16/2022				<0.001015	<0.001015	<0.001015
3/17/2022		0.00058 (J)				
9/19/2022	<0.00102			<0.001015	<0.001015	
9/20/2022			<0.001015			
9/21/2022						<0.001015
9/26/2022		<0.001015				
4/19/2023			<0.001015			
4/25/2023						<0.001015
5/2/2023	0.0255			<0.001015	<0.001015	
5/3/2023		<0.001015				
10/2/2023		<0.001015				
10/3/2023				0.00447	0.00289	0.00225
10/11/2023	0.012		<0.001015			
Mean	0.005452	0.0009038	0.0009841	0.001447	0.001249	0.001169
Std. Dev.	0.008965	0.0002061	8.733E-05	0.001222	0.0006629	0.0004366
Upper Lim.	0.0255	0.001015	0.001015	0.00447	0.00289	0.00225
Lower Lim.	0.00102	0.00056	0.000768	0.001015	0.001015	0.001015

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
3/3/2020			<0.000203			
3/9/2020	0.0058	0.0018 (J)				
3/10/2020				0.00353 (J)		
10/19/2020	0.00351 (J)	0.00186 (J)		0.00463 (J)		
10/20/2020			<0.000203		<0.005	<0.005
4/20/2021	0.00225					
4/21/2021			8.14E-05 (J)		0.000396	0.00109
5/3/2021		0.00142				
5/5/2021				0.00514		
9/7/2021				0.00507	0.00041	0.0013
9/8/2021	0.00219					
9/14/2021			8E-05 (J)			
9/15/2021		0.0016				
3/9/2022					0.00066	0.00155
3/15/2022	0.0021					
3/16/2022			0.00012 (J)			
3/17/2022		0.061		0.0078		
9/19/2022	0.00247				0.000629	0.00187
9/20/2022			0.00012 (J)			
9/26/2022		0.0323		0.00709		
4/18/2023					0.00066	0.00135
5/2/2023	0.00202					
5/3/2023		0.0241	<0.000203	0.00828		
9/26/2023					0.00051	0.00102
10/2/2023				0.00938		
10/9/2023		0.027				
10/11/2023	0.001		<0.000203			
Mean	0.002668	0.01889	0.0001517	0.006365	0.0008236	0.001526
Std. Dev.	0.001439	0.02149	5.685E-05	0.002055	0.0007477	0.0005157
Upper Lim.	0.004083	0.061	0.000203	0.008543	0.0025	0.002138
Lower Lim.	0.001334	0.00142	8E-05	0.004187	0.000396	0.0009131

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
3/3/2020			<0.005	0.00238 (J)	0.0118	0.00199 (J)
3/4/2020		<0.005				
10/13/2020		<0.005	<0.005		0.015	<0.005
10/20/2020	<0.005					
10/21/2020				0.00346 (J)		
4/21/2021	0.000288		0.000891			
4/26/2021		0.000665		0.00346		
5/5/2021					0.0116	0.000735
9/1/2021		0.00083	0.0009			
9/7/2021					0.011	0.00088
9/13/2021	0.00023					
9/14/2021				0.0043		
3/8/2022			0.00073			
3/9/2022	0.00019 (J)	0.00042				
3/16/2022				0.00394	0.0107	0.00074
9/19/2022					0.0128	0.000783
9/20/2022		0.00153	0.0031			
9/26/2022	0.000183 (J)			0.00401		
4/19/2023		0.000728	0.000509			
5/2/2023	0.000139 (J)			0.00514	0.0126	0.00114
9/26/2023		0.00103				
10/3/2023					0.0136	0.000607
10/10/2023				0.00403		
10/11/2023	0.000171 (J)		0.00334			
Mean	0.0005287	0.0019	0.002434	0.00384	0.01239	0.001172
Std. Dev.	0.0008706	0.00194	0.001919	0.0007926	0.001427	0.0006936
Upper Lim.	0.0025	0.001221	0.002586	0.00468	0.0139	0.001776
Lower Lim.	0.000139	0.0005267	0.000563	0.003	0.01088	0.0006002

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
3/2/2020		0.0122				
3/3/2020			<0.000203			
3/4/2020	<0.005					
10/14/2020	<0.005					
10/15/2020						<0.005
10/20/2020			<0.000203	0.00547	0.00251 (J)	
10/21/2020		0.0145				
4/26/2021	0.000368					
4/27/2021				0.00188	0.00254	0.000587
4/28/2021			0.000104 (J)			
5/3/2021		0.0111				
9/1/2021	0.0004		<0.000203	0.00098	0.0022	0.00056
9/8/2021		0.0112				
3/8/2022				0.00061	0.00177	0.00086
3/14/2022		0.00987				
3/15/2022	0.0002 (J)					
3/16/2022			0.00012 (J)			
9/20/2022		0.00931		0.000694	0.00182	
9/21/2022			<0.000203			0.000632
9/26/2022	0.000331					
4/24/2023				0.000465	0.00156	
4/25/2023		0.00879	<0.000203			
5/2/2023	0.000146 (J)					
5/3/2023						0.000541
9/27/2023						0.00051
10/3/2023			0.00086	0.000432	0.00172	
10/4/2023		0.0093				
10/10/2023	0.000178 (J)					
Mean	0.001453	0.01078	0.0002624	0.001504	0.002017	0.0008843
Std. Dev.	0.002191	0.0019	0.000245	0.001818	0.0003973	0.0007218
Upper Lim.	0.005	0.0128	0.00086	0.002878	0.002489	0.0025
Lower Lim.	0.000146	0.00877	0.000104	0.0003325	0.001545	0.00051

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
3/2/2020		0.0013 (J)
10/15/2020	0.0016 (J)	
10/21/2020		0.00137 (J)
4/27/2021	0.00112	
5/3/2021		0.000109 (J)
9/1/2021	0.0009	
9/8/2021		0.00021
3/8/2022	0.00079	
3/14/2022		9E-05 (J)
9/20/2022		0.00031
9/21/2022	0.000807	
4/25/2023		0.000191 (J)
5/3/2023	0.000634	
9/27/2023	0.00076	
10/4/2023		0.000339
Mean	0.0009444	0.0004899
Std. Dev.	0.0003255	0.000529
Upper Lim.	0.001314	0.0008969
Lower Lim.	0.0006015	0.0001033

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
3/3/2020			0.029			
3/9/2020	0.0285	0.0175				
3/10/2020				0.015		
10/19/2020	0.0295	0.0168		0.0157		
10/20/2020			0.0414		0.144	0.0466
4/20/2021	0.0454					
4/21/2021			0.0401		0.104	0.0286
5/3/2021		0.0147				
5/5/2021				0.0136		
9/7/2021				0.0191	0.0749	0.0277
9/8/2021	0.101					
9/14/2021			0.0392			
9/15/2021		0.017				
3/9/2022					0.0618	0.0216
3/15/2022	0.12					
3/16/2022			0.031			
3/17/2022		0.0106		0.0149		
9/19/2022	0.199				0.0576	0.019
9/20/2022			0.0318			
9/26/2022		0.0169		0.019		
4/18/2023					0.0494	0.0163
5/2/2023	0.148					
5/3/2023		0.0162	0.0218	0.0176		
9/26/2023					0.0562	0.0172
10/2/2023				0.0192		
10/9/2023		0.0231				
10/11/2023	0.189		0.0433			
Mean	0.1076	0.0166	0.0347	0.01676	0.07827	0.02529
Std. Dev.	0.0687	0.003446	0.007457	0.00223	0.03419	0.01057
Upper Lim.	0.1804	0.02025	0.0426	0.01913	0.1171	0.03726
Lower Lim.	0.03474	0.01295	0.0268	0.0144	0.04302	0.01436

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
3/3/2020			0.03	0.0172	0.0304	0.347
3/4/2020		0.0544				
10/13/2020		0.0522	0.0322		0.0293	0.22
10/20/2020	0.116					
10/21/2020				0.0185		
4/21/2021	0.0998		0.02			
4/26/2021		0.0308		0.0167		
5/5/2021					0.0247	0.149
9/1/2021		0.0298	0.0243			
9/7/2021					0.0259	0.17
9/13/2021	0.104					
9/14/2021				0.0197		
3/8/2022			0.0206			
3/9/2022	0.101	0.0275				
3/16/2022				0.0147	0.0247	0.149
9/19/2022					0.0339	0.146
9/20/2022		0.0414	0.0243			
9/26/2022	0.1			0.0164		
4/19/2023		0.0236	0.0189			
5/2/2023	0.101			0.0175	0.0292	0.149
9/26/2023		0.0307				
10/3/2023					0.0346	0.13
10/10/2023				0.0164		
10/11/2023	0.109		0.0246			
Mean	0.1044	0.0363	0.02436	0.01714	0.02909	0.1825
Std. Dev.	0.006049	0.01164	0.004725	0.001501	0.003854	0.07179
Upper Lim.	0.116	0.04864	0.02937	0.01873	0.03317	0.347
Lower Lim.	0.0998	0.02396	0.01935	0.01555	0.025	0.13

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
3/2/2020		0.0155				
3/3/2020			0.0257			
3/4/2020	0.0137					
10/14/2020	0.0127					
10/15/2020						0.0408
10/20/2020			0.0252	0.0331	0.0466	
10/21/2020		0.0173				
4/26/2021	0.0115					
4/27/2021				0.0262	0.0421	0.0368
4/28/2021			0.0241			
5/3/2021		0.015				
9/1/2021	0.0129		0.0251	0.028	0.043	0.0394
9/8/2021		0.0175				
3/8/2022				0.0261	0.0403	0.0393
3/14/2022		0.0162				
3/15/2022	0.0137					
3/16/2022			0.0228			
9/20/2022		0.0171		0.0287	0.0384	
9/21/2022			0.0217			0.0208
9/26/2022	0.0165					
4/24/2023				0.0277	0.0394	
4/25/2023		0.0182	0.0235			
5/2/2023	0.0178					
5/3/2023						0.0217
9/27/2023						0.0202
10/3/2023			0.0241	0.0281	0.0396	
10/4/2023		0.0189				
10/10/2023	0.0194					
Mean	0.01478	0.01696	0.02403	0.02827	0.04134	0.03129
Std. Dev.	0.002787	0.001324	0.001338	0.002343	0.002814	0.009796
Upper Lim.	0.01773	0.01837	0.02544	0.0331	0.04469	0.0408
Lower Lim.	0.01182	0.01556	0.02261	0.0261	0.038	0.0202

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
3/2/2020		0.165
10/15/2020	0.0274	
10/21/2020		0.166
4/27/2021	0.0184	
5/3/2021		0.248
9/1/2021	0.0172	
9/8/2021		0.236
3/8/2022	0.0169	
3/14/2022		0.267
9/20/2022		0.222
9/21/2022	0.0186	
4/25/2023		0.217
5/3/2023	0.0209	
9/27/2023	0.0208	
10/4/2023		0.223
Mean	0.02003	0.218
Std. Dev.	0.00361	0.03621
Upper Lim.	0.0242	0.2564
Lower Lim.	0.01602	0.1796

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-13SR
10/20/2020	<0.001015
4/21/2021	<0.001015
9/7/2021	0.00166
3/9/2022	0.00171
9/19/2022	0.00241
4/18/2023	0.00244
9/26/2023	0.00188
Mean	0.001733
Std. Dev.	0.0005798
Upper Lim.	0.002429
Lower Lim.	0.001276

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-10	MR-AP-MW-12	MR-AP-MW-13SR	MR-AP-MW-4
3/4/2020				<0.000203
3/9/2020	<0.000203			
3/10/2020		<0.000203		
10/14/2020				<0.000203
10/19/2020	<0.000203	<0.000203		
10/20/2020			<0.0002	
4/21/2021			<0.0002	
4/26/2021				7.3E-05 (J)
5/3/2021	<0.000203			
5/5/2021		9.27E-05 (J)		
9/1/2021				8E-05 (J)
9/7/2021		0.00012 (J)	<0.0002	
9/15/2021	<0.000203			
3/9/2022			0.0001 (J)	
3/15/2022				<0.000203
3/17/2022	9E-05 (J)	0.00016 (J)		
9/19/2022			0.000378	
9/26/2022	9.8E-05 (J)	<0.000203		<0.000203
4/18/2023			0.000563	
5/2/2023				<0.000203
5/3/2023	<0.000203	<0.000203		
9/26/2023			0.000822	
10/2/2023		<0.000203		
10/9/2023	<0.000203			
10/10/2023				<0.000203
Mean	0.0001758	0.0001735	0.0003519	0.0001714
Std. Dev.	5.05E-05	4.46E-05	0.0002578	5.859E-05
Upper Lim.	0.000203	0.000203	0.0006714	0.000203
Lower Lim.	9E-05	9.27E-05	1.63E-05	7.3E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
3/3/2020			<0.001015			
3/9/2020	0.0105	<0.001015				
3/10/2020				<0.001015		
10/19/2020	0.00527 (J)	<0.001015		<0.001015		
10/20/2020			<0.001015		<0.00102	<0.001015
4/20/2021	0.00235					
4/21/2021			<0.001015		0.000207 (J)	0.000239 (J)
5/3/2021		<0.001015				
5/5/2021				<0.001015		
9/7/2021				0.00084 (J)	0.00031 (J)	0.00034 (J)
9/8/2021	0.00143					
9/14/2021			0.00037 (J)			
9/15/2021		0.00047 (J)				
3/9/2022					<0.00102	0.00068 (J)
3/15/2022	0.00199					
3/16/2022			0.00027 (J)			
3/17/2022		0.00139		0.00048 (J)		
9/19/2022	0.00148				0.000647 (J)	0.000275 (J)
9/20/2022			0.000272 (J)			
9/26/2022		0.000436 (J)		0.00215		
4/18/2023					0.000323 (J)	<0.001015
5/2/2023	0.0042					
5/3/2023		0.000411 (J)	<0.001015	0.00034 (J)		
9/26/2023					0.000263 (J)	0.000364 (J)
10/2/2023				0.000606 (J)		
10/9/2023		0.00048 (J)				
10/11/2023	0.000805 (J)		0.000302 (J)			
Mean	0.003503	0.000779	0.0006593	0.0009326	0.0005414	0.0005611
Std. Dev.	0.003204	0.0003739	0.0003815	0.0005573	0.0003559	0.0003414
Upper Lim.	0.00645	0.00139	0.001015	0.001241	0.0005201	0.0005537
Lower Lim.	0.0008464	0.000411	0.00027	0.0003049	0.0001916	0.0002168

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
3/3/2020			<0.001015	<0.001015	<0.001015	<0.01
3/4/2020		<0.001015				
10/13/2020		<0.001015	<0.001015		<0.001015	<0.01
10/20/2020	<0.001015					
10/21/2020				<0.001015		
4/21/2021	0.000239 (J)		<0.001015			
4/26/2021		<0.001015		0.00021 (J)		
5/5/2021					<0.001015	0.000646 (J)
9/1/2021		0.00033 (J)	0.00067 (J)			
9/7/2021					0.00027 (J)	0.00042 (J)
9/13/2021	0.00044 (J)					
9/14/2021				0.00051 (J)		
3/8/2022			<0.001015			
3/9/2022	<0.001015	0.00028 (J)				
3/16/2022				<0.001015	0.00033 (J)	0.00034 (J)
9/19/2022					0.000333 (J)	0.000343 (J)
9/20/2022		0.000243 (J)	<0.001015			
9/26/2022	0.000356 (J)			<0.001015		
4/19/2023		<0.001015	<0.001015			
5/2/2023	<0.001015			<0.001015	<0.001015	0.000885 (J)
9/26/2023		<0.001015				
10/3/2023					0.000259 (J)	0.00045 (J)
10/10/2023				0.000268 (J)		
10/11/2023	<0.001015		0.000239 (J)			
Mean	0.0007279	0.000741	0.0008749	0.0007579	0.0006565	0.002885
Std. Dev.	0.0003628	0.0003789	0.0002839	0.0003649	0.0003841	0.004395
Upper Lim.	0.001015	0.001015	0.001015	0.001015	0.001015	0.01
Lower Lim.	0.000239	0.000243	0.000239	0.00021	0.000259	0.00034

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
3/2/2020		<0.001015				
3/3/2020			<0.001015			
3/4/2020	<0.001015					
10/14/2020	<0.001015					
10/15/2020						<0.001015
10/20/2020			<0.001015	<0.001015	<0.001015	
10/21/2020		<0.001015				
4/26/2021	<0.001015					
4/27/2021				<0.001015	0.000219 (J)	0.000284 (J)
4/28/2021			<0.001015			
5/3/2021		<0.001015				
9/1/2021	0.00029 (J)		0.00025 (J)	0.0003 (J)	0.00025 (J)	0.0003 (J)
9/8/2021		0.00027 (J)				
3/8/2022				<0.001015	0.00023 (J)	0.00024 (J)
3/14/2022		<0.001015				
3/15/2022	<0.001015					
3/16/2022			0.00023 (J)			
9/20/2022		<0.001015		0.000282 (J)	<0.001015	
9/21/2022			0.000246 (J)			0.000301 (J)
9/26/2022	0.000278 (J)					
4/24/2023				<0.001015	<0.001015	
4/25/2023		<0.001015	<0.001015			
5/2/2023	<0.001015					
5/3/2023						<0.001015
9/27/2023						<0.001015
10/3/2023			<0.001015	<0.001015	<0.001015	
10/4/2023		<0.001015				
10/10/2023	0.000361 (J)					
Mean	0.0007505	0.0009219	0.0007251	0.0008081	0.0006799	0.0005957
Std. Dev.	0.0003658	0.0002634	0.0004001	0.0003533	0.0004181	0.0003927
Upper Lim.	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.000278	0.00027	0.00023	0.000282	0.000219	0.00024

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
3/2/2020		<0.001015
10/15/2020	<0.001015	
10/21/2020		<0.001015
4/27/2021	0.000204 (J)	
5/3/2021		<0.001015
9/1/2021	0.00031 (J)	
9/8/2021		0.00021 (J)
3/8/2022	0.0002 (J)	
3/14/2022		0.00024 (J)
9/20/2022		<0.001015
9/21/2022	<0.001015	
4/25/2023		<0.001015
5/3/2023	<0.001015	
9/27/2023	<0.001015	
10/4/2023		<0.001015
Mean	0.000682	0.0008175
Std. Dev.	0.0004169	0.0003658
Upper Lim.	0.001015	0.001015
Lower Lim.	0.0002	0.00021

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
3/3/2020			<0.000203			
3/9/2020	<0.005	<0.005				
3/10/2020				<0.005		
10/19/2020	<0.005	<0.005		<0.005		
10/20/2020			<0.000203		<0.005	0.0112
4/20/2021	0.000113 (J)					
4/21/2021			<0.000203		0.00086	0.0523
5/3/2021		0.0003				
5/5/2021				0.00141		
9/7/2021				0.00165	0.00072	0.0816
9/8/2021	8E-05 (J)					
9/14/2021			<0.000203			
9/15/2021		0.0003				
3/9/2022					0.00066	0.0824
3/15/2022	0.00038					
3/16/2022			<0.000203			
3/17/2022		0.00091		0.00116		
9/19/2022	0.00108				0.00092	0.0931
9/20/2022			7.7E-05 (J)			
9/26/2022		0.00137		0.00142		
4/18/2023					0.000767	0.0819
5/2/2023	0.000545					
5/3/2023		0.00107	<0.000203	0.000717		
9/26/2023					0.00101	0.0872
10/2/2023				0.000977		
10/9/2023		0.00143				
10/11/2023	0.000478		<0.000203			
Mean	0.001584	0.001922	0.0001873	0.002167	0.001062	0.06996
Std. Dev.	0.00213	0.001946	4.455E-05	0.001772	0.0006451	0.02895
Upper Lim.	0.000824	0.001442	0.000203	0.001582	0.0025	0.09602
Lower Lim.	0.00012	0.0003832	7.7E-05	0.0008784	0.00066	0.04477

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
3/3/2020			<0.005	0.0471	0.00456 (J)	<0.000203
3/4/2020		<0.005				
10/13/2020		<0.005	0.00352 (J)		0.00555	<0.000203
10/20/2020	<0.000203					
10/21/2020				0.0368		
4/21/2021	6.88E-05 (J)		0.00213			
4/26/2021		0.000703		0.0358		
5/5/2021					0.00451	<0.000203
9/1/2021		0.00066	0.00646			
9/7/2021					0.00455	<0.000203
9/13/2021	<0.000203					
9/14/2021				0.0515		
3/8/2022			0.00413			
3/9/2022	<0.000203	0.00065				
3/16/2022				0.0444	0.00378	<0.000203
9/19/2022					0.00397	<0.000203
9/20/2022		0.0247	0.00579			
9/26/2022	<0.000203			0.0522		
4/19/2023		0.0118	0.0024			
5/2/2023	<0.000203			0.0538	0.00405	0.00012 (J)
9/26/2023		0.032				
10/3/2023					0.00359	<0.000203
10/10/2023				0.0451		
10/11/2023	<0.000203		0.00421			
Mean	0.0001838	0.01006	0.003892	0.04584	0.00432	0.0001926
Std. Dev.	5.072E-05	0.01204	0.001593	0.006788	0.0006187	2.934E-05
Upper Lim.	0.000203	0.01887	0.005581	0.05303	0.004976	0.000203
Lower Lim.	6.88E-05	3.806E-05	0.002204	0.03864	0.003664	0.00012

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals
 Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-6	MR-AP-MW-7SR	MR-AP-MW-9DR	MR-AP-MW-9SR
3/3/2020		0.0186			
3/4/2020	0.0119				
10/14/2020	0.0117				
10/15/2020				<0.005	<0.005
10/20/2020		0.00675	<0.005		
4/26/2021	0.00667				
4/27/2021			0.000826	0.000206	0.000331
4/28/2021		0.00574			
9/1/2021	0.00719	0.00456	0.00078	0.00011 (J)	0.00016 (J)
3/8/2022			0.00067	0.00013 (J)	0.00022
3/15/2022	0.0039				
3/16/2022		0.00531			
9/20/2022			0.000748		
9/21/2022		0.00612		0.000147 (J)	0.000115 (J)
9/26/2022	0.00501				
4/24/2023			0.00152		
4/25/2023		0.00983			
5/2/2023	0.00283				
5/3/2023				0.000156 (J)	0.0004
9/27/2023				9E-05 (J)	0.000124 (J)
10/3/2023		0.00795	0.000604		
10/10/2023	0.00342				
Mean	0.006578	0.008108	0.001093	0.000477	0.00055
Std. Dev.	0.003558	0.00455	0.0006914	0.0008928	0.0008665
Upper Lim.	0.01035	0.01175	0.0025	0.0025	0.0025
Lower Lim.	0.002807	0.004573	0.000604	9E-05	0.000115

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
3/3/2020			0.227 (U)			
3/9/2020	0.726	0.906				
3/10/2020				1.57		
10/19/2020	0.335 (U)	0.387 (U)		0.17 (U)		
10/20/2020			0.0474 (U)		0.357 (U)	0.479 (U)
4/20/2021	0.44 (U)					
4/21/2021			0.309 (U)		0.748 (U)	1.13
5/3/2021		0.821 (U)				
5/5/2021				0.446 (U)		
9/7/2021				0.521 (U)	0.822 (U)	1.24 (U)
9/8/2021	0.396 (U)					
9/14/2021			0.279 (U)			
9/15/2021		1.43 (U)				
3/9/2022					0.284 (U)	1.28
3/15/2022	0.754 (U)					
3/16/2022			0.579 (U)			
3/17/2022		0.232 (U)		0.656 (U)		
9/19/2022	0.933 (U)				0.762 (U)	1.11 (U)
9/20/2022			0.441 (U)			
9/26/2022		0.502 (U)		0.62 (U)		
4/18/2023					0.555 (U)	0.695 (U)
5/2/2023	1.38					
5/3/2023		0.952 (U)	0.618 (U)	0.659 (U)		
9/26/2023					0.62 (U)	1.18 (U)
10/2/2023				0.524 (U)		
10/9/2023		0.786 (U)				
10/11/2023	1.12 (U)		0.744 (U)			
Mean	0.7605	0.752	0.4056	0.6458	0.5926	1.016
Std. Dev.	0.3705	0.3771	0.2319	0.4056	0.2075	0.3055
Upper Lim.	1.153	1.152	0.6514	1.041	0.8391	1.325
Lower Lim.	0.3678	0.3523	0.1597	0.2774	0.3461	0.6861

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
3/3/2020			-0.0538 (U)	0.361 (U)	0.258 (U)	0.821
3/4/2020		0.337 (U)				
10/13/2020		0.232 (U)	0.209 (U)		-0.209 (U)	-0.0678 (U)
10/20/2020	-0.128 (U)					
10/21/2020				0.448 (U)		
4/21/2021	0.164 (U)		0.319 (U)			
4/26/2021		0.643 (U)		0.378 (U)		
5/5/2021					1.06 (U)	0.195 (U)
9/1/2021		0.37 (U)	0.231 (U)			
9/7/2021					0.332 (U)	0.0456 (U)
9/13/2021	0.387 (U)					
9/14/2021				0.96 (U)		
3/8/2022			0.455 (U)			
3/9/2022	0.417 (U)	0.387 (U)				
3/16/2022				0.589 (U)	0.257 (U)	0.207 (U)
9/19/2022					0.804 (U)	0.714 (U)
9/20/2022		0.359 (U)	0.392 (U)			
9/26/2022	1 (U)			0.479 (U)		
4/19/2023		1.05 (U)	0.679 (U)			
5/2/2023	0.502 (U)			0.831 (U)	0.857 (U)	1.05 (U)
9/26/2023		1.15 (U)				
10/3/2023					1.11 (U)	0.393 (U)
10/10/2023				0.693 (U)		
10/11/2023	0.373 (U)		0.36 (U)			
Mean	0.3879	0.566	0.3239	0.5924	0.5586	0.4197
Std. Dev.	0.3428	0.3502	0.2117	0.2189	0.467	0.3998
Upper Lim.	0.795	0.9071	0.5483	0.8244	1.054	0.8435
Lower Lim.	-0.01932	0.2509	0.0995	0.3604	0.06364	-0.004058

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
3/2/2020		0.407 (U)				
3/3/2020			0.177 (U)			
3/4/2020	0.31 (U)					
10/14/2020	0.434 (U)					
10/15/2020						0.897
10/20/2020			0.321 (U)	0.197 (U)	0.398 (U)	
10/21/2020		-0.12 (U)				
4/26/2021	0.394 (U)					
4/27/2021				0.334 (U)	0.846 (U)	0.699 (U)
4/28/2021			0.156 (U)			
5/3/2021		0.646 (U)				
9/1/2021	0.238 (U)		0.132 (U)	1.4	0.627 (U)	0.667 (U)
9/8/2021		0.745 (U)				
3/8/2022				0.263 (U)	0.649 (U)	0.145 (U)
3/14/2022		0.571 (U)				
3/15/2022	0.285 (U)					
3/16/2022			0.199 (U)			
9/20/2022		0.714 (U)		0.872 (U)	0.445 (U)	
9/21/2022			0.398 (U)			1.24
9/26/2022	0.525 (U)					
4/24/2023				0.863 (U)	0.804 (U)	
4/25/2023		1.49	0.257 (U)			
5/2/2023	0.203 (U)					
5/3/2023						0.453 (U)
9/27/2023						0.54 (U)
10/3/2023			0.629 (U)	0.339 (U)	0.195 (U)	
10/4/2023		1.22 (U)				
10/10/2023	0.771 (U)					
Mean	0.395	0.7091	0.2836	0.6097	0.5663	0.663
Std. Dev.	0.1854	0.489	0.1657	0.4467	0.2332	0.3456
Upper Lim.	0.5915	1.227	0.4593	1.14	0.8432	1.073
Lower Lim.	0.1985	0.1908	0.108	0.07909	0.2893	0.2525

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
3/2/2020		0.213 (U)
10/15/2020	0.222 (U)	
10/21/2020		0.0492 (U)
4/27/2021	0.157 (U)	
5/3/2021		0.328 (U)
9/1/2021	0.272 (U)	
9/8/2021		1.16 (U)
3/8/2022	0.447 (U)	
3/14/2022		0.253 (U)
9/20/2022		0.47 (U)
9/21/2022	0.391 (U)	
4/25/2023		0.537 (U)
5/3/2023	0.709 (U)	
9/27/2023	0.446 (U)	
10/4/2023		0.813 (U)
Mean	0.3777	0.4779
Std. Dev.	0.1842	0.3602
Upper Lim.	0.5965	0.8597
Lower Lim.	0.1589	0.09613

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
3/3/2020			0.134			
3/9/2020	0.179	0.517				
3/10/2020				0.929		
10/19/2020	0.16	0.608		0.978		
10/20/2020			0.126		0.146	0.434
4/20/2021	0.165					
4/21/2021			0.111		0.134	0.402
5/3/2021		0.599				
5/5/2021				0.958		
9/7/2021				0.843	0.183	0.532
9/8/2021	0.188					
9/14/2021			0.136			
9/15/2021		0.727				
3/9/2022					0.179	0.573
3/15/2022	0.142					
3/16/2022			0.107 (J)			
3/17/2022		1.86		1.21		
9/19/2022	0.164				0.156	0.407
9/20/2022			0.0923 (J)			
9/26/2022		1.12		0.989		
4/18/2023					0.264	0.124 (J)
5/2/2023	0.181					
5/3/2023		0.902	0.172	1.18		
9/26/2023					0.221	0.169
10/2/2023				1.07		
10/9/2023		0.578				
10/11/2023	0.156		0.117 (J)			
Mean	0.1669	0.8639	0.1244	1.02	0.1833	0.3773
Std. Dev.	0.01507	0.4497	0.02409	0.1256	0.04568	0.1705
Upper Lim.	0.1828	1.245	0.1499	1.153	0.2375	0.5798
Lower Lim.	0.1509	0.4989	0.09888	0.8865	0.129	0.1747

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
3/3/2020			0.179	0.262	0.397	0.286
3/4/2020		0.111				
10/13/2020		0.125	0.145		0.362	0.311
10/20/2020	0.177					
10/21/2020				0.236		
4/21/2021	0.166		0.173			
4/26/2021		0.117		0.406		
5/5/2021					0.351	0.291
9/1/2021		0.118	0.14			
9/7/2021					0.433	0.361
9/13/2021	0.171					
9/14/2021				0.24		
3/8/2022			0.155			
3/9/2022	0.188	0.103 (J)				
3/16/2022				0.268	0.388	0.309
9/19/2022					0.341	0.304
9/20/2022		<0.125	0.145			
9/26/2022	0.215			0.211		
4/19/2023		0.119 (J)	0.16			
5/2/2023	0.167			0.321	0.348	0.311
9/26/2023		0.128				
10/3/2023					0.272	0.264
10/10/2023				0.232		
10/11/2023	0.168		0.141			
Mean	0.1789	0.1104	0.1548	0.272	0.3615	0.3046
Std. Dev.	0.0177	0.02087	0.01486	0.06337	0.04751	0.02793
Upper Lim.	0.215	0.1276	0.1705	0.3361	0.4119	0.3342
Lower Lim.	0.166	0.09447	0.139	0.2095	0.3111	0.275

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
3/2/2020		0.382				
3/3/2020			0.121			
3/4/2020	0.221					
10/14/2020	0.251					
10/15/2020						0.129
10/20/2020			0.109	0.122	0.222	
10/21/2020		0.427				
4/26/2021	0.204					
4/27/2021				0.126	0.242	0.149
4/28/2021			0.183			
5/3/2021		0.388				
9/1/2021	0.281		0.118	0.16	0.245	0.197
9/8/2021		0.433				
3/8/2022				<0.125	0.223	0.11 (J)
3/14/2022		0.405				
3/15/2022	0.154					
3/16/2022			0.155			
9/20/2022		0.384		<0.125	0.177	
9/21/2022			<0.125			0.178
9/26/2022	0.22					
4/24/2023				0.115 (J)	0.195	
4/25/2023		0.424	0.0863 (J)			
5/2/2023	0.17					
5/3/2023						0.281
9/27/2023						0.188
10/3/2023			0.108 (J)	0.109 (J)	0.173	
10/4/2023		0.397				
10/10/2023	0.182					
Mean	0.2104	0.405	0.1179	0.126	0.211	0.176
Std. Dev.	0.04225	0.02054	0.03755	0.01625	0.02955	0.05614
Upper Lim.	0.2552	0.4268	0.1576	0.16	0.2461	0.2427
Lower Lim.	0.1656	0.3832	0.07805	0.109	0.1759	0.1093

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
3/2/2020		1.9
10/15/2020	0.114	
10/21/2020		1.89
4/27/2021	0.125	
5/3/2021		2.38
9/1/2021	0.162	
9/8/2021		2.27
3/8/2022	0.125	
3/14/2022		2.28
9/20/2022		2.39
9/21/2022	0.0775 (J)	
4/25/2023		2.23
5/3/2023	0.138	
9/27/2023	0.125	
10/4/2023		2.27
Mean	0.1238	2.201
Std. Dev.	0.02551	0.197
Upper Lim.	0.1541	2.379
Lower Lim.	0.09348	2.021

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR	MR-AP-MW-3D	MR-AP-MW-4	MR-AP-MW-6
3/3/2020				<0.000203		<0.000203
3/4/2020					<0.000203	
3/10/2020	<0.000203					
10/13/2020				<0.000203		
10/14/2020					<0.000203	
10/19/2020	<0.000203					
10/20/2020		<0.000203	<0.0002			<0.000203
4/21/2021		0.000121 (J)	<0.0002			
4/26/2021					<0.000203	
4/28/2021						<0.000203
5/5/2021	<0.000203			8.4E-05 (J)		
9/1/2021					<0.000203	<0.000203
9/7/2021	<0.000203	<0.000203	<0.0002	<0.000203		
3/9/2022		<0.000203	0.00011 (J)			
3/15/2022					<0.000203	
3/16/2022				<0.000203		<0.000203
3/17/2022	<0.000203					
9/19/2022		<0.000203	0.0004	<0.000203		
9/21/2022						<0.000203
9/26/2022	<0.000203				<0.000203	
4/18/2023		<0.000203	0.00101			
4/25/2023						<0.000203
5/2/2023				<0.000203	<0.000203	
5/3/2023	<0.000203					
9/26/2023		<0.000203	0.000686			
10/2/2023	0.000224					
10/3/2023				<0.000203		0.000107 (J)
10/10/2023					6.9E-05 (J)	
Mean	0.0002056	0.0001913	0.0004009	0.0001881	0.0001863	0.000191
Std. Dev.	7.425E-06	3.099E-05	0.0003312	4.207E-05	4.738E-05	3.394E-05
Upper Lim.	0.000224	0.000203	0.0008006	0.000203	0.000203	0.000203
Lower Lim.	0.000203	0.000121	6.698E-05	8.4E-05	6.9E-05	0.000107

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

	MR-AP-PZ-5
3/2/2020	<0.000203
10/21/2020	<0.000203
5/3/2021	<0.000203
9/8/2021	<0.000203
3/14/2022	<0.000203
9/20/2022	<0.000203
4/25/2023	<0.000203
10/4/2023	0.000355
Mean	0.000222
Std. Dev.	5.374E-05
Upper Lim.	0.000355
Lower Lim.	0.000203

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
3/3/2020			0.255			
3/9/2020	0.123	0.225				
3/10/2020				0.146		
10/19/2020	0.09	0.166		0.12		
10/20/2020			0.297		0.0343	0.0475
4/20/2021	0.154					
4/21/2021			0.421		0.0356	0.0237
5/3/2021		0.19				
5/5/2021				0.124 (R)		
9/7/2021				0.176	0.0357	0.0258
9/8/2021	0.179					
9/14/2021			0.374			
9/15/2021		0.187				
3/9/2022					0.031	0.0215
3/15/2022	0.156					
3/16/2022			0.172			
3/17/2022		0.174		0.104		
9/19/2022	0.204				0.037	0.028
9/20/2022			0.173			
9/26/2022		0.267		0.233		
4/18/2023					0.0382	0.0199 (J)
5/2/2023	0.206					
5/3/2023		0.354	0.144	0.077		
9/26/2023					0.0435	0.0222
10/2/2023				0.0552		
10/9/2023		0.281				
10/11/2023	0.192		0.257			
Mean	0.163	0.2305	0.2616	0.1294	0.03647	0.02694
Std. Dev.	0.04086	0.06552	0.09933	0.05631	0.003844	0.009463
Upper Lim.	0.2063	0.2999	0.3669	0.1891	0.04104	0.0475
Lower Lim.	0.1197	0.1611	0.1563	0.06972	0.03191	0.0199

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
3/3/2020			0.0278	0.269	0.11	0.294
3/4/2020		0.0195 (J)				
10/13/2020		0.0195 (J)	0.132		0.121	0.347
10/20/2020	0.0207					
10/21/2020				0.217		
4/21/2021	0.0211		0.128			
4/26/2021		0.0194 (J)		0.268		
5/5/2021					0.116	0.358
9/1/2021		0.0196 (J)	0.104			
9/7/2021					0.12	0.347
9/13/2021	0.0212					
9/14/2021				0.27		
3/8/2022			0.0901			
3/9/2022	0.0196 (J)	0.0177 (J)				
3/16/2022				0.211	0.0914	0.271
9/19/2022					0.101	0.261
9/20/2022		0.023	0.177			
9/26/2022	0.0204			0.221		
4/19/2023		0.0226	0.0713			
5/2/2023	0.0206			0.273	0.104	0.274
9/26/2023		0.0229				
10/3/2023					0.0938	0.203
10/10/2023				0.22		
10/11/2023	0.0199 (J)		0.171			
Mean	0.0205	0.02053	0.1127	0.2436	0.1072	0.2944
Std. Dev.	0.0005888	0.00201	0.05021	0.02838	0.01145	0.05347
Upper Lim.	0.0212	0.023	0.1659	0.273	0.1193	0.351
Lower Lim.	0.0198	0.0177	0.05943	0.211	0.09502	0.2377

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
3/2/2020		0.237				
3/3/2020			0.0877			
3/4/2020	0.0851					
10/14/2020	0.0651					
10/15/2020						0.0815
10/20/2020			0.0785	0.12	0.143	
10/21/2020		0.193				
4/26/2021	0.0758					
4/27/2021				0.13	0.156	0.0818
4/28/2021			0.0865			
5/3/2021		0.228				
9/1/2021	0.0716		0.0856	0.13	0.16	0.0827
9/8/2021		0.229				
3/8/2022				0.105	0.139	0.0682
3/14/2022		0.189				
3/15/2022	0.0575					
3/16/2022			0.0731			
9/20/2022		0.195		0.108	0.155	
9/21/2022			0.0774			0.0642
9/26/2022	0.0674					
4/24/2023				0.124	0.173	
4/25/2023		0.243	0.0898			
5/2/2023	0.064					
5/3/2023						0.071
9/27/2023						0.0583
10/3/2023			0.0471	0.106	0.155	
10/4/2023		0.203				
10/10/2023	0.0672					
Mean	0.06921	0.2146	0.07821	0.1176	0.1544	0.07253
Std. Dev.	0.008368	0.02183	0.01385	0.0111	0.01116	0.009685
Upper Lim.	0.07808	0.2378	0.09	0.1308	0.1677	0.08403
Lower Lim.	0.06034	0.1915	0.06693	0.1044	0.1412	0.06102

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
3/2/2020		0.147
10/15/2020	0.0413	
10/21/2020		0.127
4/27/2021	0.045	
5/3/2021		0.177
9/1/2021	0.0464	
9/8/2021		0.17
3/8/2022	0.04	
3/14/2022		0.143
9/20/2022		0.138
9/21/2022	0.0421	
4/25/2023		0.158
5/3/2023	0.0464	
9/27/2023	0.0419	
10/4/2023		0.125
Mean	0.0433	0.1481
Std. Dev.	0.002595	0.01898
Upper Lim.	0.04638	0.1682
Lower Lim.	0.04022	0.128

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-1	MR-AP-MW-10	MR-AP-MW-11	MR-AP-MW-12	MR-AP-MW-13DR	MR-AP-MW-13SR
3/3/2020			<0.01015			
3/9/2020	0.0142	0.223				
3/10/2020				0.49		
10/19/2020	0.0116	0.305		0.858		
10/20/2020			<0.01015		0.00206 (J)	0.00311 (J)
4/20/2021	0.0072					
4/21/2021			0.000741		0.00592	0.00029
5/3/2021		0.296				
5/5/2021				0.662		
9/7/2021				0.821	0.00355	0.00017 (J)
9/8/2021	0.00649					
9/14/2021			0.00075			
9/15/2021		0.352				
3/9/2022					0.00325	0.00014 (J)
3/15/2022	0.00568					
3/16/2022			0.00039			
3/17/2022		0.751		1.17		
9/19/2022	0.00547				0.0034	0.00011 (J)
9/20/2022			0.00148			
9/26/2022		0.74		0.555		
4/18/2023					<0.01015	<0.01015
5/2/2023	<0.01015					
5/3/2023		0.665	<0.01015	0.383		
9/26/2023					<0.01015	<0.01015
10/2/2023				0.281		
10/9/2023		0.358				
10/11/2023	<0.01015		<0.01015			
Mean	0.008868	0.4613	0.005495	0.6525	0.005497	0.003446
Std. Dev.	0.003147	0.2185	0.004985	0.2891	0.00338	0.004704
Upper Lim.	0.01109	0.6893	0.01015	0.9589	0.005106	0.01015
Lower Lim.	0.004673	0.2486	0.00039	0.3461	0.00225	0.00011

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-14R	MR-AP-MW-15	MR-AP-MW-16	MR-AP-MW-2	MR-AP-MW-3D	MR-AP-MW-3S
3/3/2020			0.025	<0.01015	0.024	0.0648
3/4/2020		<0.01015				
10/13/2020		<0.01015	0.0494		0.0265	0.0517
10/20/2020	<0.01015					
10/21/2020				0.00458 (J)		
4/21/2021	0.000157 (J)		0.0515			
4/26/2021		<0.01015		0.0018		
5/5/2021					0.0243	0.0449
9/1/2021		8E-05 (J)	0.0336			
9/7/2021					0.0254	0.0511
9/13/2021	9E-05 (J)					
9/14/2021				0.0021		
3/8/2022			0.0418			
3/9/2022	0.00012 (J)	0.00011 (J)				
3/16/2022				0.00207	0.0266	0.0488
9/19/2022					0.0264	0.0506
9/20/2022		0.000518	0.0863			
9/26/2022	<0.01015			0.00166		
4/19/2023		<0.01015	0.0499			
5/2/2023	<0.01015			<0.01015	0.0293	0.0661
9/26/2023		<0.01015				
10/3/2023					0.0267	0.0668
10/10/2023				<0.01015		
10/11/2023	<0.01015		0.0792			
Mean	0.005852	0.006432	0.05209	0.005333	0.02615	0.0556
Std. Dev.	0.00536	0.005133	0.02104	0.004093	0.001657	0.008795
Upper Lim.	0.01015	0.01015	0.07439	0.01015	0.02791	0.0668
Lower Lim.	9E-05	8E-05	0.02978	0.00166	0.02439	0.0449

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals

Plant Miller Data: Miller Ash Pond

	MR-AP-MW-4	MR-AP-MW-5	MR-AP-MW-6	MR-AP-MW-7DR	MR-AP-MW-7SR	MR-AP-MW-9DR
3/2/2020		0.0725				
3/3/2020			0.00282 (J)			
3/4/2020	<0.01015					
10/14/2020	<0.01015					
10/15/2020						<0.01015
10/20/2020			<0.01015	0.00424 (J)	0.0356	
10/21/2020		0.0877				
4/26/2021	8.18E-05 (J)					
4/27/2021				0.00393	0.0324	0.00031
4/28/2021			0.00135			
5/3/2021		0.0726				
9/1/2021	7E-05 (J)		0.00174	0.00458	0.0351	0.00035
9/8/2021		0.0733				
3/8/2022				0.00515	0.0333	0.00121
3/14/2022		0.0753				
3/15/2022	0.00011 (J)					
3/16/2022			0.00145			
9/20/2022		0.0901		0.00717	0.0328	
9/21/2022			0.00202			0.000304
9/26/2022	0.000153 (J)					
4/24/2023				<0.01015	0.0282	
4/25/2023		0.0934	<0.01015			
5/2/2023	<0.01015					
5/3/2023						<0.01015
9/27/2023						<0.01015
10/3/2023			<0.01015	0.0067 (J)	0.0291	
10/4/2023		0.101				
10/10/2023	<0.01015					
Mean	0.005127	0.08324	0.004979	0.005264	0.03236	0.004661
Std. Dev.	0.00537	0.01119	0.004305	0.001227	0.002799	0.005145
Upper Lim.	0.01015	0.09509	0.01015	0.006722	0.03568	0.01015
Lower Lim.	7E-05	0.07138	0.00135	0.003806	0.02903	0.000304

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-9SR	MR-AP-PZ-5
3/2/2020		<0.01015
10/15/2020	0.00213 (J)	
10/21/2020		<0.01015
4/27/2021	0.0015	
5/3/2021		0.000438
9/1/2021	0.00047	
9/8/2021		0.00029
3/8/2022	0.00027	
3/14/2022		0.00033
9/20/2022		0.000184 (J)
9/21/2022	0.000302	
4/25/2023		<0.01015
5/3/2023	<0.01015	
9/27/2023	<0.01015	
10/4/2023		<0.01015
Mean	0.003567	0.00523
Std. Dev.	0.004548	0.00526
Upper Lim.	0.001793	0.01015
Lower Lim.	0.0002408	0.000184

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-13SR	MR-AP-MW-16	MR-AP-MW-4
3/3/2020		0.00271 (J)	
3/4/2020			<0.001015
10/13/2020		0.00351 (J)	
10/14/2020			<0.001015
10/20/2020	<0.001015		
4/21/2021	<0.001015	0.000975 (J)	
4/26/2021			0.00112
9/1/2021		0.00629	0.00077 (J)
9/7/2021	<0.001015		
3/8/2022		0.00171	
3/9/2022	<0.001015		
3/15/2022			<0.001015
9/19/2022	0.000598 (J)		
9/20/2022		<0.001015	
9/26/2022			<0.001015
4/18/2023	<0.001015		
4/19/2023		0.00616	
5/2/2023			0.000539 (J)
9/26/2023	<0.001015		
10/10/2023			<0.001015
10/11/2023		<0.001015	
Mean	0.0009554	0.002923	0.000938
Std. Dev.	0.0001576	0.002228	0.0001891
Upper Lim.	0.001015	0.004993	0.00112
Lower Lim.	0.000598	0.0009223	0.000539

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/15/2023 2:51 PM View: Appendix IV - Confidence Intervals
Plant Miller Data: Miller Ash Pond

	MR-AP-MW-13SR	MR-AP-MW-16	MR-AP-MW-4
3/3/2020		<0.000203	
3/4/2020			<0.000203
10/13/2020		<0.000203	
10/14/2020			<0.000203
10/20/2020	<0.001		
4/21/2021	7.01E-05 (J)	7.18E-05 (J)	
4/26/2021			<0.000203
9/1/2021		<0.000203	<0.000203
9/7/2021	8E-05 (J)		
3/8/2022		7E-05 (J)	
3/9/2022	0.00013 (J)		
3/15/2022			7E-05 (J)
9/19/2022	0.000159 (J)		
9/20/2022		<0.000203	
9/26/2022			<0.000203
4/18/2023	0.000165 (J)		
4/19/2023		<0.000203	
5/2/2023			<0.000203
9/26/2023	0.000169 (J)		
10/10/2023			<0.000203
10/11/2023		<0.000203	
Mean	0.0001819	0.00017	0.0001864
Std. Dev.	0.0001459	6.115E-05	4.702E-05
Upper Lim.	0.0003279	0.000203	0.000203
Lower Lim.	6.039E-05	7E-05	7E-05

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Appendix IV - Trend Tests Summary - Significant Results

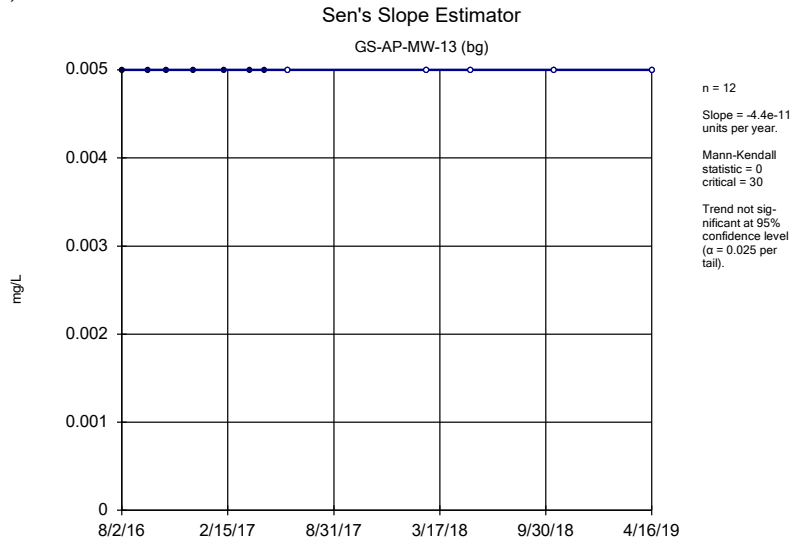
Plant Miller Data: Miller Ash Pond Printed 12/21/2023, 2:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MR-AP-MW-22I (bg)	-0.0003967	-28	-17	Yes	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-22S (bg)	-0.0001277	-18	-17	Yes	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-23A (bg)	0.001344	20	17	Yes	8	0	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-2	-0.006949	-130	-66	Yes	21	0	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-21 (bg)	-0.001176	-27	-23	Yes	10	40	n/a	0.05	NP
Lithium (mg/L)	GS-AP-MW-17V (bg)	-0.004015	-33	-23	Yes	10	0	n/a	0.05	NP
Lithium (mg/L)	GS-AP-MW-8 (bg)	-0.005893	-139	-66	Yes	21	38.1	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-10	0.006512	71	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-11	0.03469	102	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-12	-0.02092	-109	-62	Yes	20	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-3D	-0.004373	-116	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-3S	0.01871	103	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-4	-0.006514	-156	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-PZ-5	-0.006839	-84	-66	Yes	21	0	n/a	0.05	NP
Molybdenum (mg/L)	GS-AP-MW-8 (bg)	0	77	66	Yes	21	61.9	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-10	0.0486	112	66	Yes	21	0	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-12	0.09188	128	62	Yes	20	0	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-22D (bg)	0.006308	18	17	Yes	8	0	n/a	0.05	NP

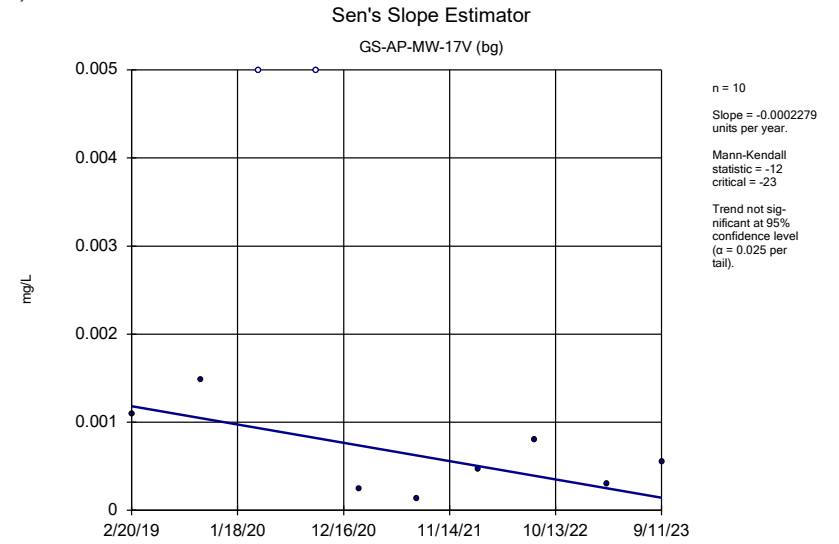
Appendix IV - Trend Tests Summary - All Results

Plant Miller Data: Miller Ash Pond Printed 12/21/2023, 2:51 PM

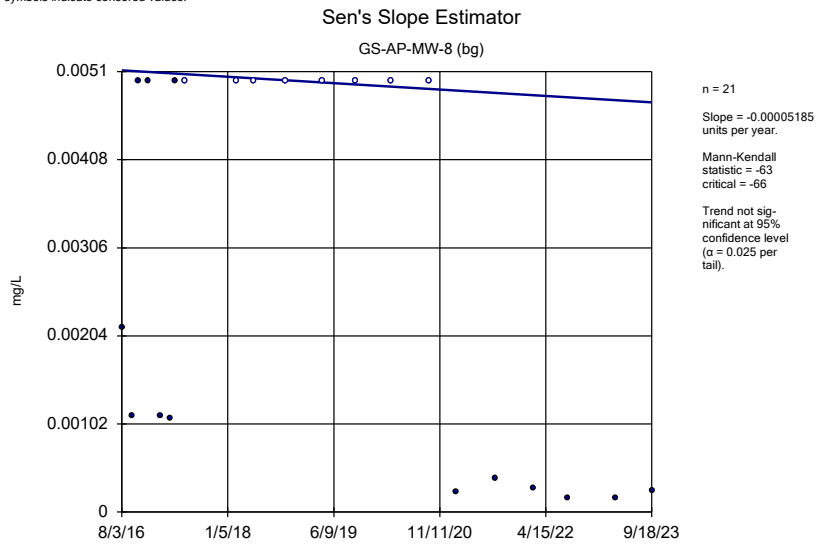
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	GS-AP-MW-13 (bg)	-4.4e-11	0	30	No	12	41.67	n/a	0.05	NP
Arsenic (mg/L)	GS-AP-MW-17V (bg)	-0.0002279	-12	-23	No	10	20	n/a	0.05	NP
Arsenic (mg/L)	GS-AP-MW-8 (bg)	-0.00005185	-63	-66	No	21	38.1	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-21 (bg)	-0.00008149	-9	-23	No	10	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-22D (bg)	-0.0002927	-4	-17	No	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-22I (bg)	-0.0003967	-28	-17	Yes	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-22S (bg)	-0.0001277	-18	-17	Yes	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-23 (bg)	-0.0002921	-9	-17	No	8	25	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-23A (bg)	0.001344	20	17	Yes	8	0	n/a	0.05	NP
Arsenic (mg/L)	MR-AP-MW-3D	0.0002139	61	66	No	21	0	n/a	0.05	NP
Cobalt (mg/L)	GS-AP-MW-13 (bg)	0	0	30	No	12	100	n/a	0.05	NP
Cobalt (mg/L)	GS-AP-MW-17V (bg)	0	0	23	No	10	100	n/a	0.05	NP
Cobalt (mg/L)	GS-AP-MW-8 (bg)	-0.00008049	-53	-66	No	21	47.62	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-13SR	0.01486	15	15	No	7	0	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-2	-0.006949	-130	-66	Yes	21	0	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-21 (bg)	-0.001176	-27	-23	Yes	10	40	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-22D (bg)	0	0	17	No	8	100	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-22I (bg)	0	0	17	No	8	100	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-22S (bg)	0	0	17	No	8	100	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-23 (bg)	-0.00002902	-10	-17	No	8	50	n/a	0.05	NP
Cobalt (mg/L)	MR-AP-MW-23A (bg)	-0.0001647	-6	-17	No	8	12.5	n/a	0.05	NP
Lithium (mg/L)	GS-AP-MW-13 (bg)	0	4	30	No	12	25	n/a	0.05	NP
Lithium (mg/L)	GS-AP-MW-17V (bg)	-0.004015	-33	-23	Yes	10	0	n/a	0.05	NP
Lithium (mg/L)	GS-AP-MW-8 (bg)	-0.005893	-139	-66	Yes	21	38.1	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-1	0.003422	28	66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-10	0.006512	71	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-11	0.03469	102	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-12	-0.02092	-109	-62	Yes	20	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-16	0.008542	58	66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-2	0.005303	43	66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-21 (bg)	0.001841	15	23	No	10	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-22D (bg)	-0.07471	-10	-17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-22I (bg)	-0.01279	-16	-17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-22S (bg)	-0.000713	0	17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-23 (bg)	-0.08875	-12	-17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-23A (bg)	-0.09422	-12	-17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-3D	-0.004373	-116	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-3S	0.01871	103	66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-4	-0.006514	-156	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-5	-0.004737	-66	-66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-6	-0.001049	-32	-66	No	21	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-7DR	-0.00365	-6	-15	No	7	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-7SR	0.006257	4	15	No	7	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-9DR	-0.007411	-11	-15	No	7	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-MW-9SR	0.0002033	2	15	No	7	0	n/a	0.05	NP
Lithium (mg/L)	MR-AP-PZ-5	-0.006839	-84	-66	Yes	21	0	n/a	0.05	NP
Molybdenum (mg/L)	GS-AP-MW-13 (bg)	-8.9e-11	0	30	No	12	41.67	n/a	0.05	NP
Molybdenum (mg/L)	GS-AP-MW-17V (bg)	0.0002748	4	23	No	10	20	n/a	0.05	NP
Molybdenum (mg/L)	GS-AP-MW-8 (bg)	0	77	66	Yes	21	61.9	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-10	0.0486	112	66	Yes	21	0	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-12	0.09188	128	62	Yes	20	0	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-21 (bg)	0	-5	-23	No	10	40	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-22D (bg)	0.006308	18	17	Yes	8	0	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-22I (bg)	0.0005682	5	17	No	8	25	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-22S (bg)	-0.00001545	-3	-17	No	8	37.5	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-23 (bg)	-0.0006445	-3	-17	No	8	25	n/a	0.05	NP
Molybdenum (mg/L)	MR-AP-MW-23A (bg)	0.0007452	8	17	No	8	12.5	n/a	0.05	NP



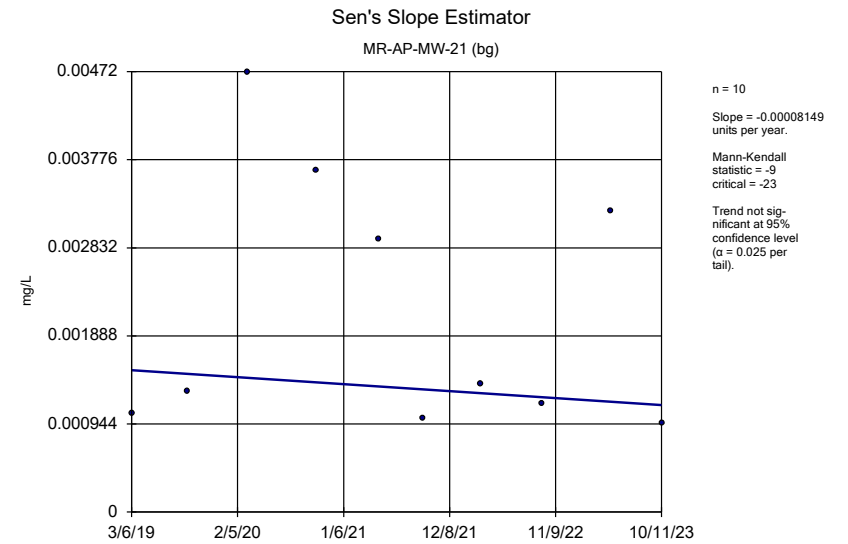
Constituent: Arsenic Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond



Constituent: Arsenic Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond



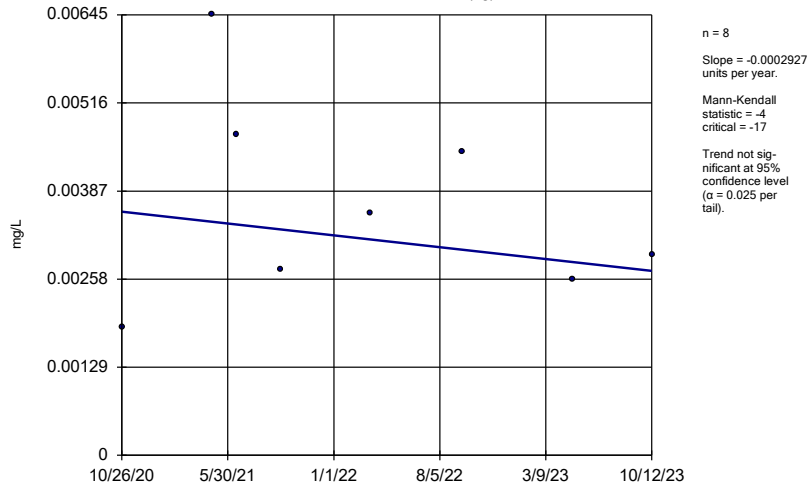
Constituent: Arsenic Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond



Constituent: Arsenic Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

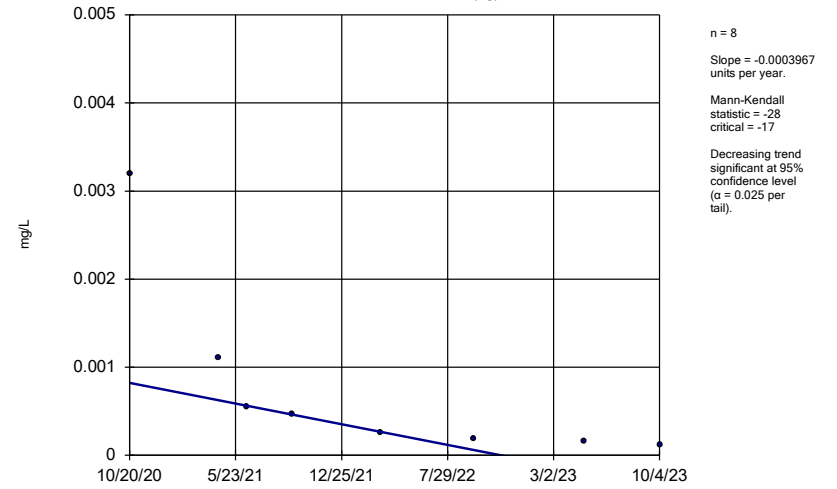
MR-AP-MW-22D (bg)



Constituent: Arsenic Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

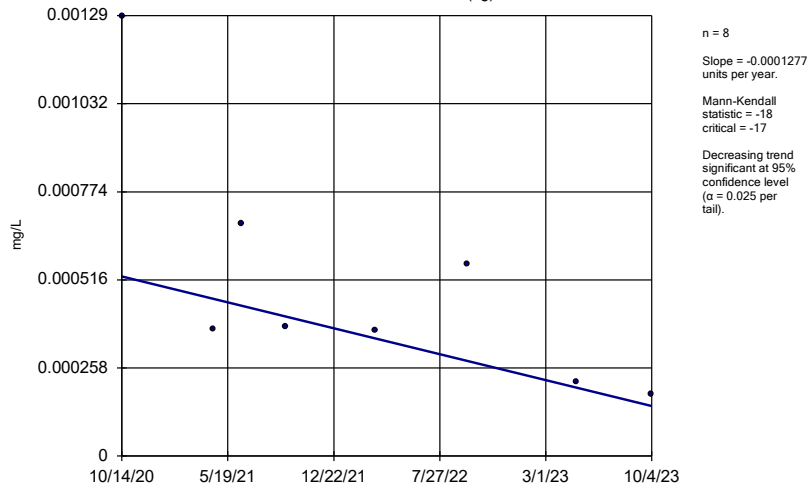
MR-AP-MW-22I (bg)



Constituent: Arsenic Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

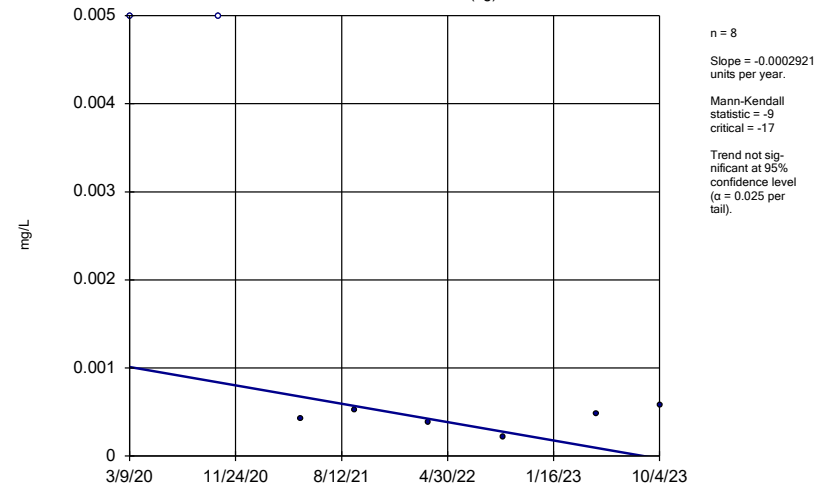


Constituent: Arsenic Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

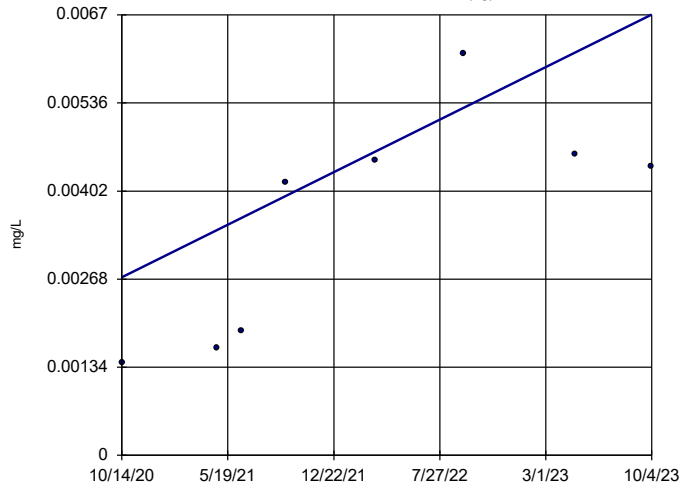
MR-AP-MW-23 (bg)



Constituent: Arsenic Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

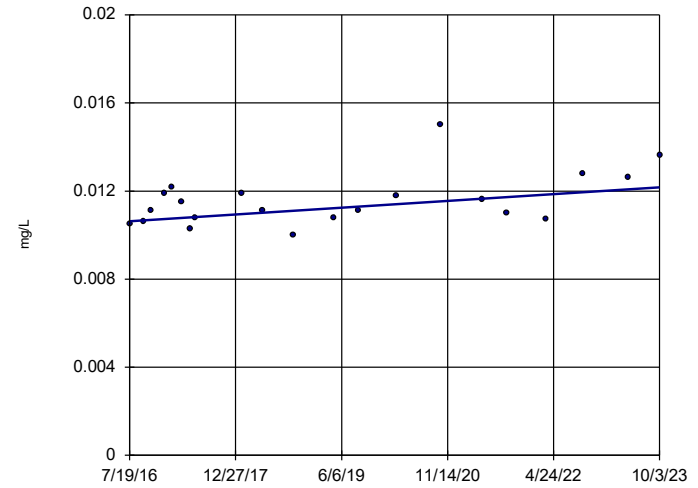


n = 8
 Slope = 0.001344 units per year.
 Mann-Kendall statistic = 20
 critical = 17
 Increasing trend significant at 95% confidence level ($\alpha = 0.025$ per tail).

Constituent: Arsenic Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

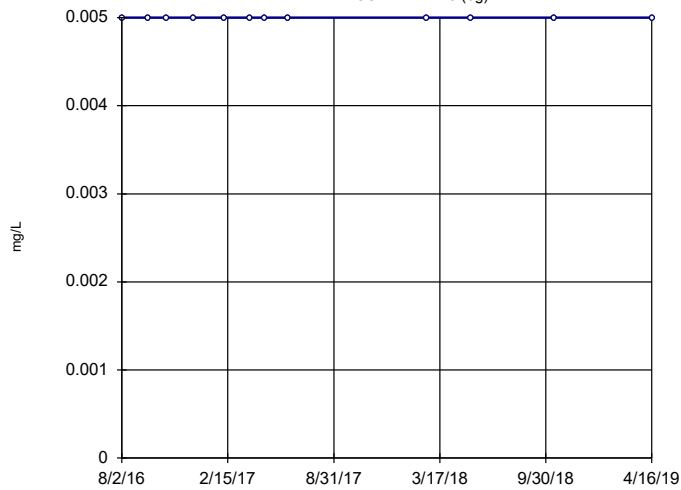


n = 21
 Slope = 0.0002139 units per year.
 Mann-Kendall statistic = 61
 critical = 66
 Trend not significant at 95% confidence level ($\alpha = 0.025$ per tail).

Constituent: Arsenic Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

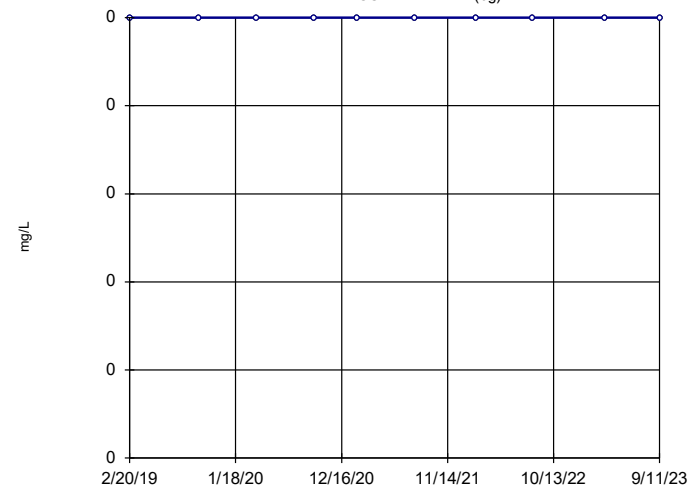


n = 12
 Slope = 0 units per year.
 Mann-Kendall statistic = 0
 critical = 30
 Trend not significant at 95% confidence level ($\alpha = 0.025$ per tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

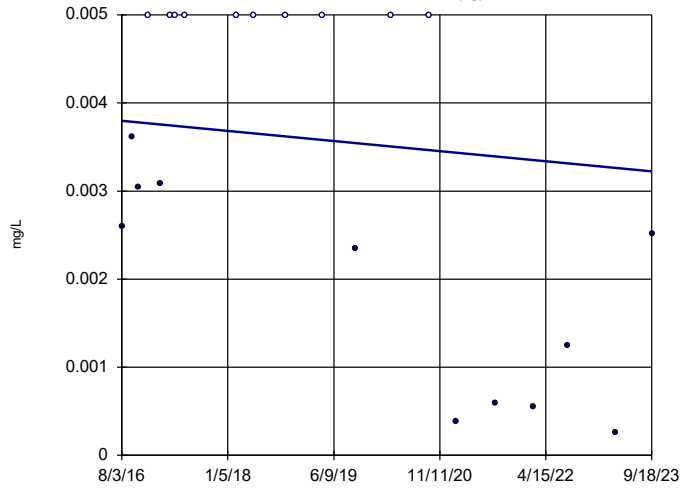


n = 10
 Slope = 0 units per year.
 Mann-Kendall statistic = 0
 critical = 23
 Trend not significant at 95% confidence level ($\alpha = 0.025$ per tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

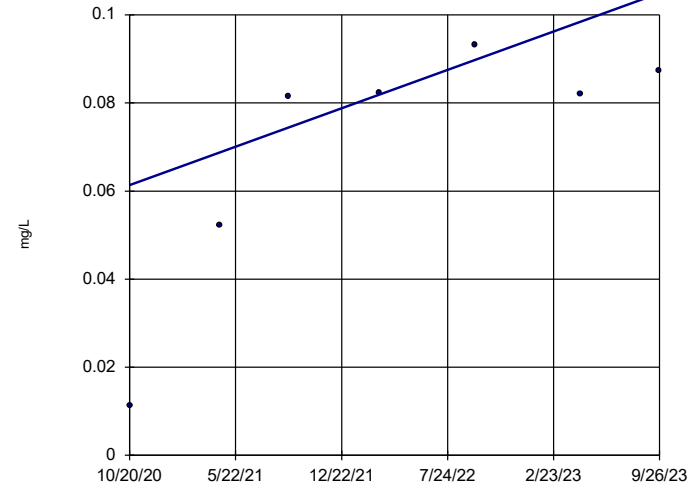


n = 21
Slope = -0.0008049
units per year.
Mann-Kendall
statistic = -53
critical = -66
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-13SR

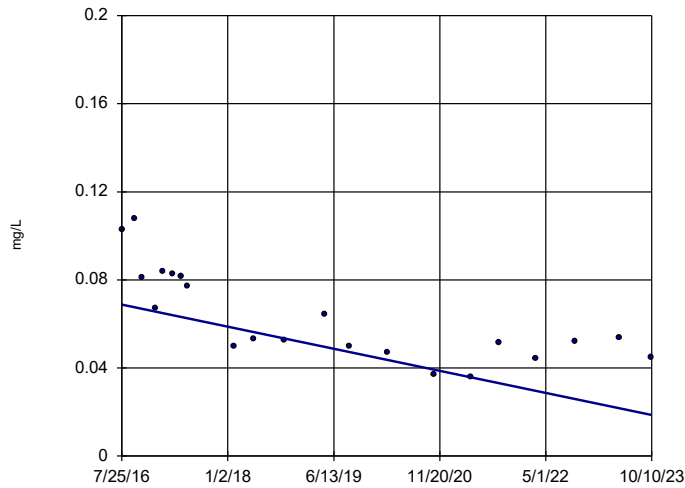


n = 7
Slope = 0.01486
units per year.
Mann-Kendall
statistic = 15
critical = 15
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-2

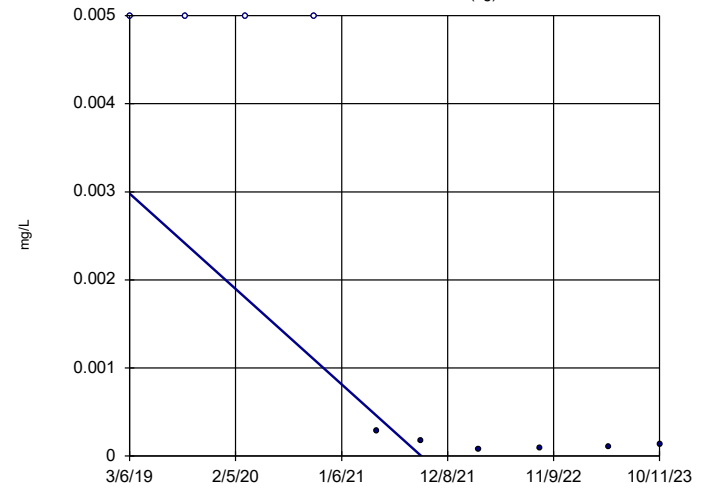


n = 21
Slope = -0.006949
units per year.
Mann-Kendall
statistic = -130
critical = -66
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

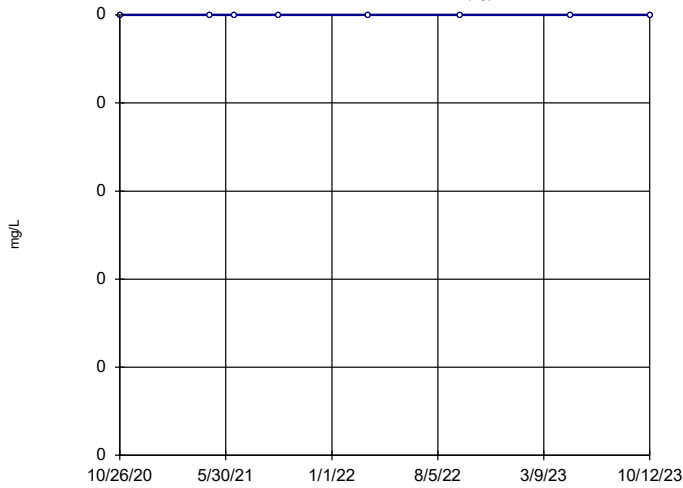


n = 10
Slope = -0.001176
units per year.
Mann-Kendall
statistic = -27
critical = -23
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22D (bg)

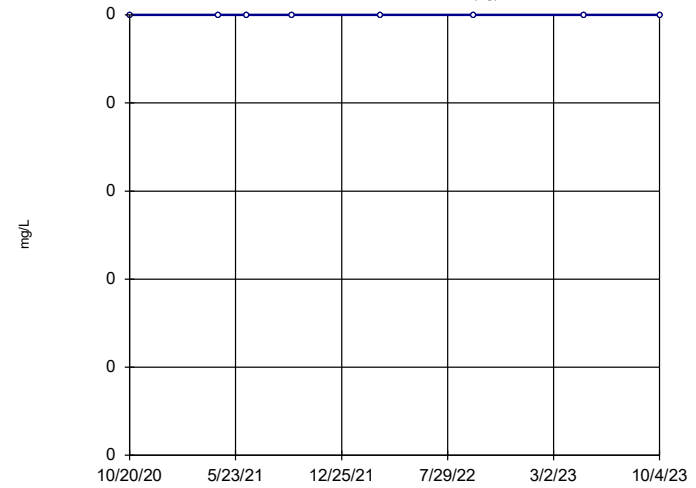


n = 8
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 17
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22I (bg)

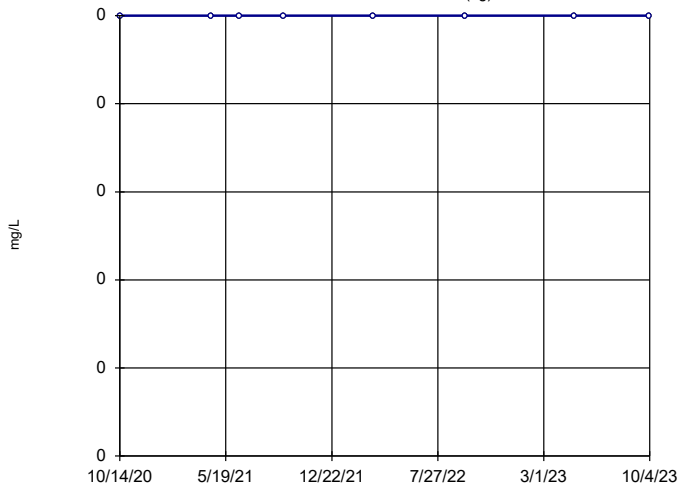


n = 8
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 17
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

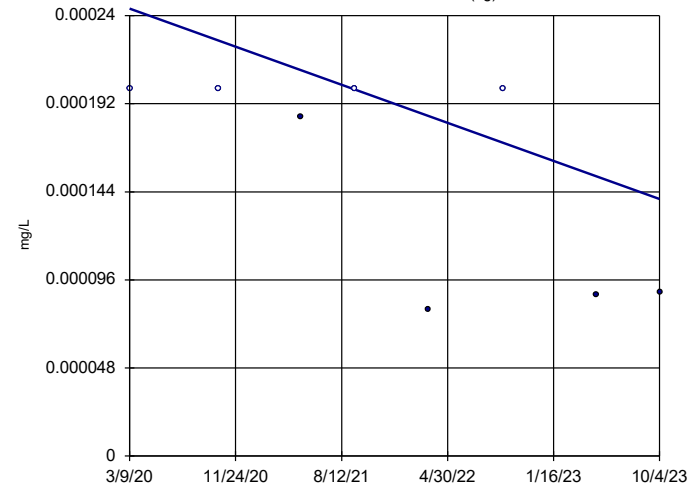


n = 8
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 17
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

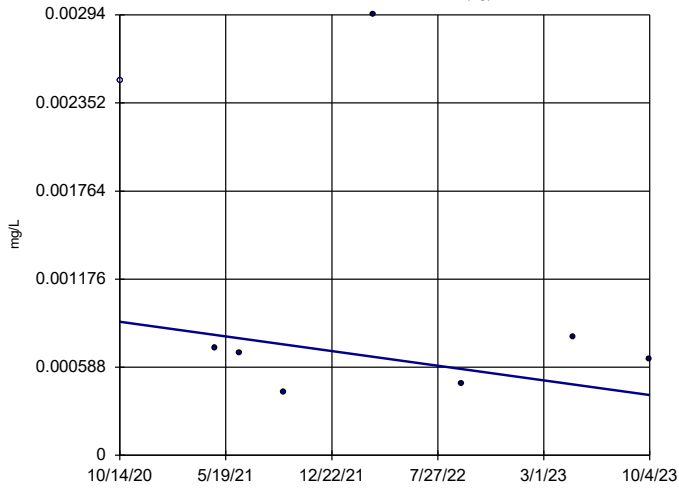


n = 8
Slope = -0.00002902
units per year.
Mann-Kendall
statistic = -10
critical = -17
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

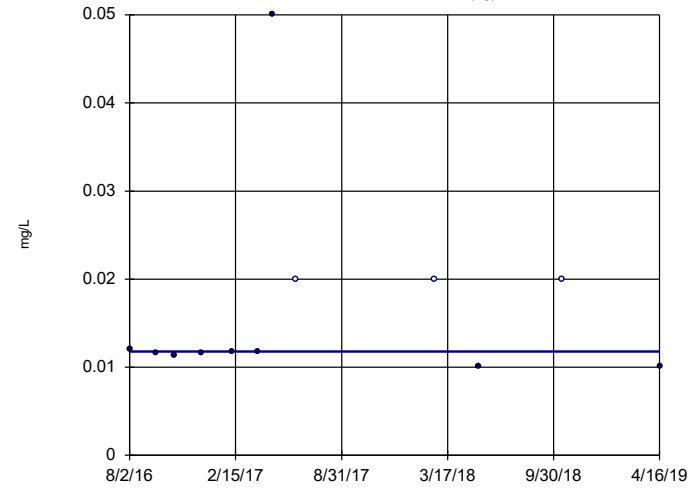


n = 8
Slope = -0.0001647
units per year.
Mann-Kendall
statistic = -6
critical = -17
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

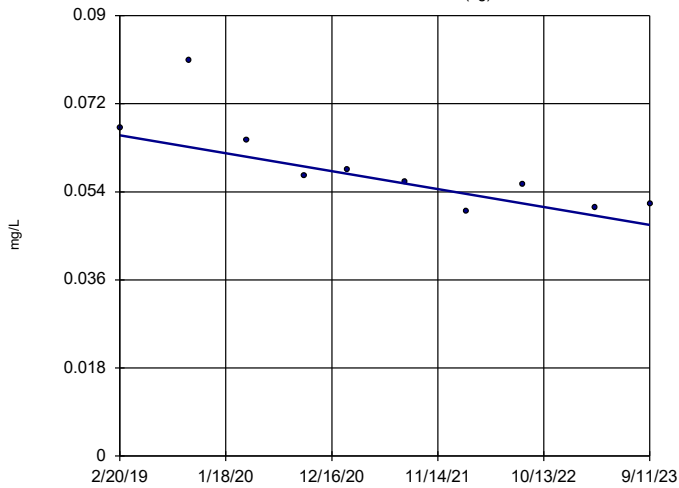


n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = 4
critical = 30
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

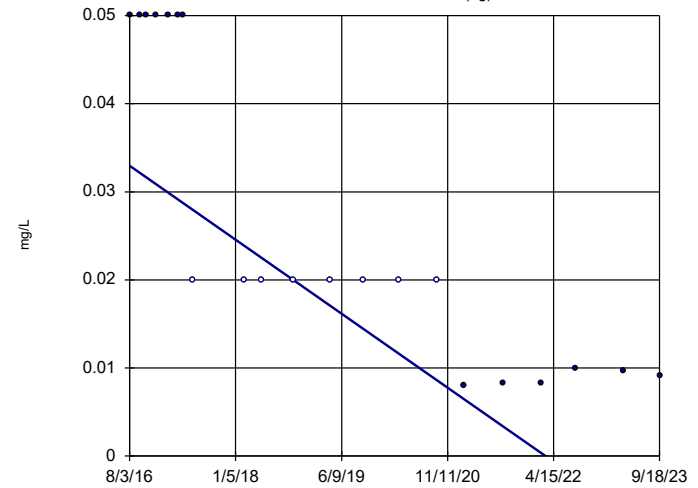


n = 10
Slope = -0.004015
units per year.
Mann-Kendall
statistic = -33
critical = -23
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

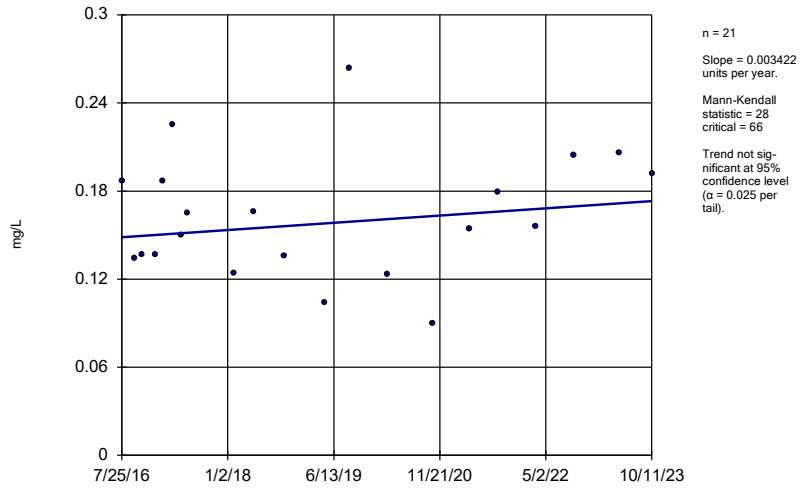


n = 21
Slope = -0.005893
units per year.
Mann-Kendall
statistic = -139
critical = -66
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

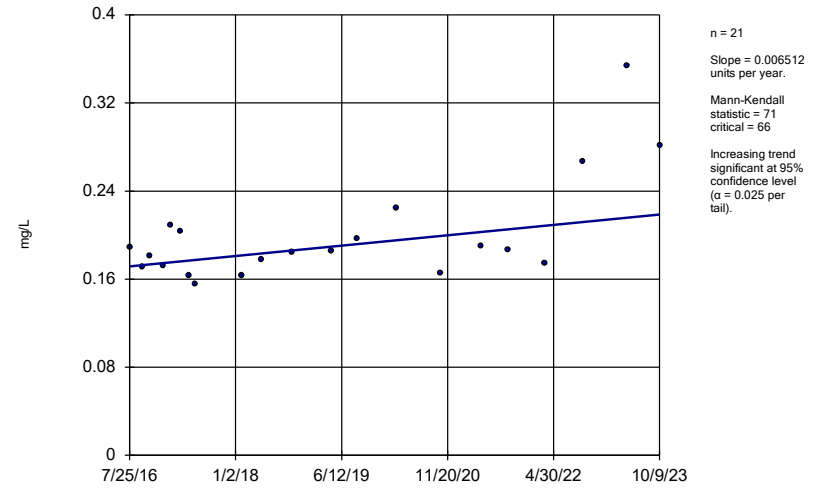
MR-AP-MW-1



Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

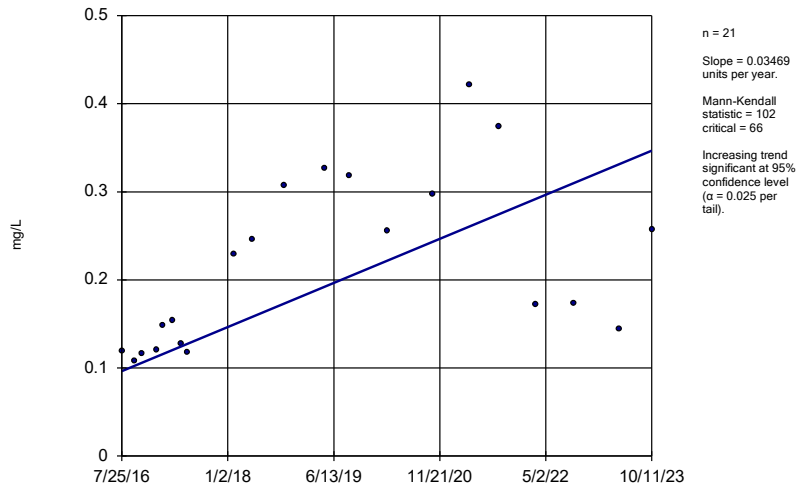
MR-AP-MW-10



Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

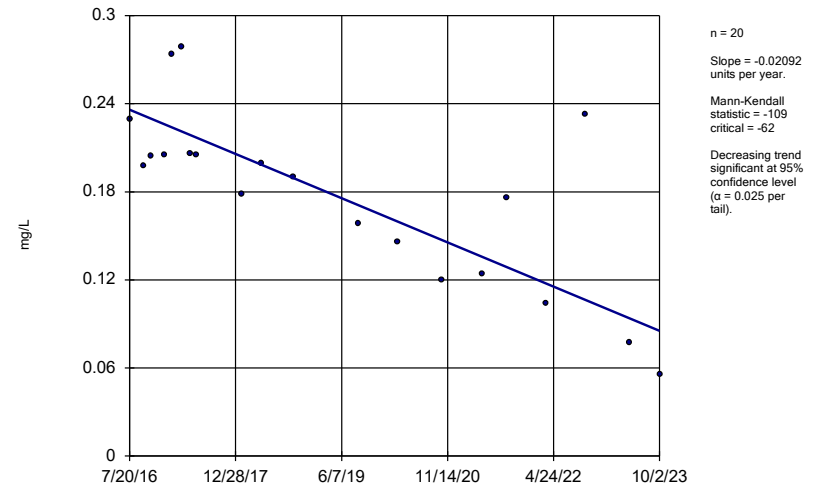
MR-AP-MW-11



Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

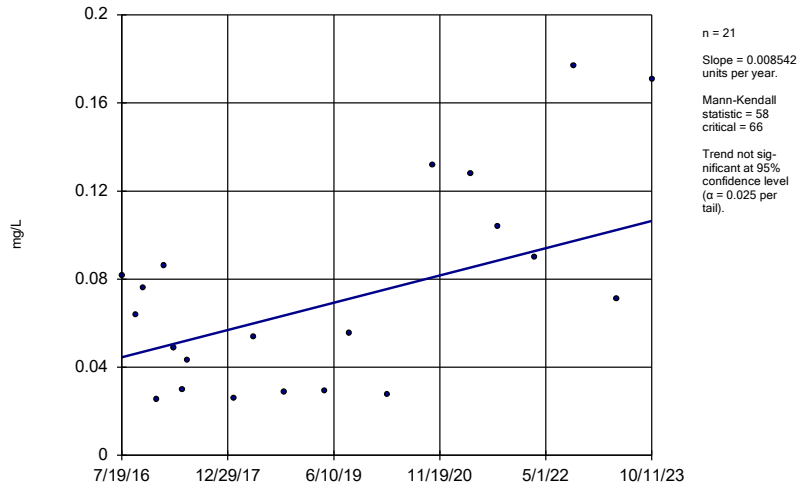
MR-AP-MW-12



Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

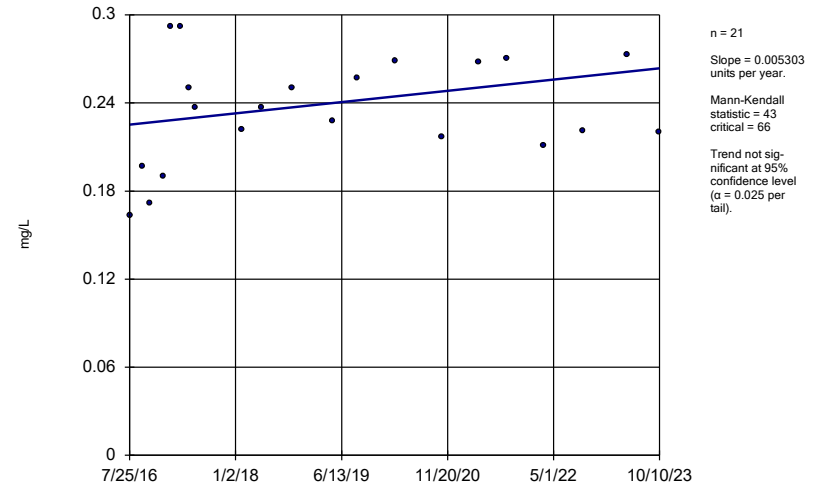
MR-AP-MW-16



Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

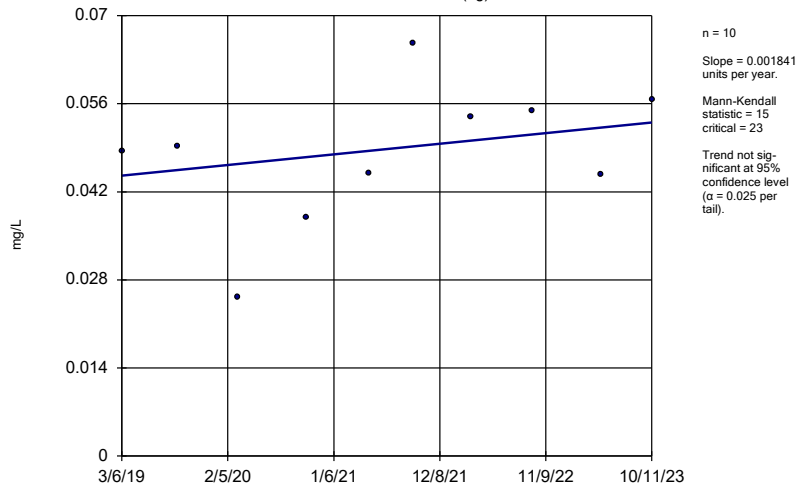
MR-AP-MW-2



Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

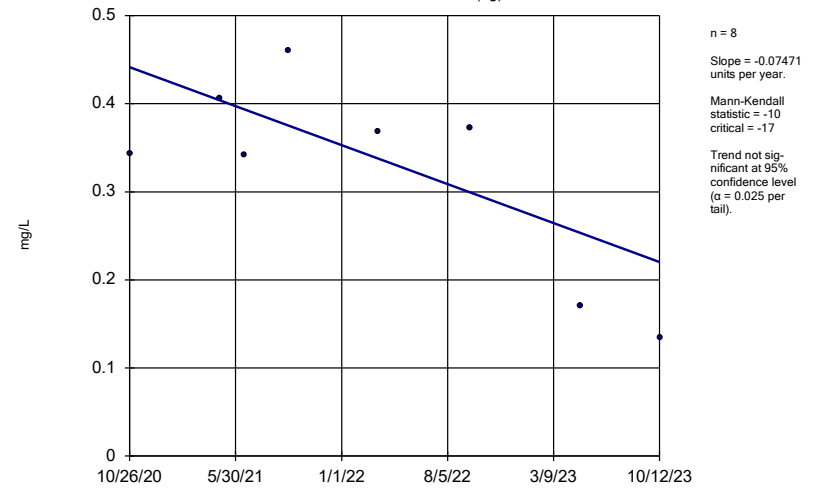
MR-AP-MW-21 (bg)



Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

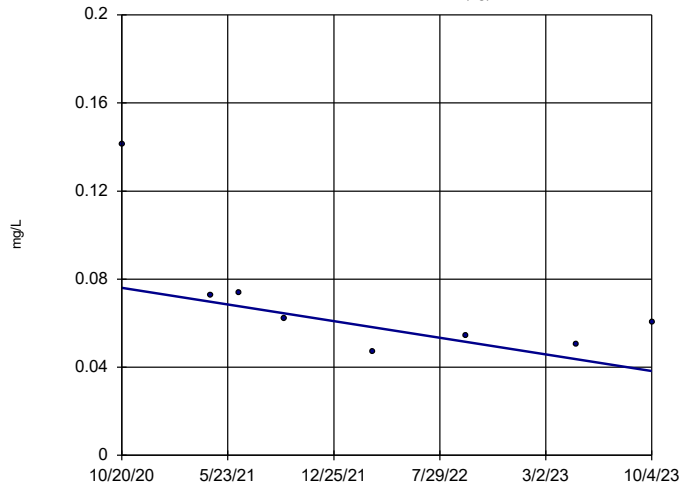
MR-AP-MW-22D (bg)



Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22l (bg)

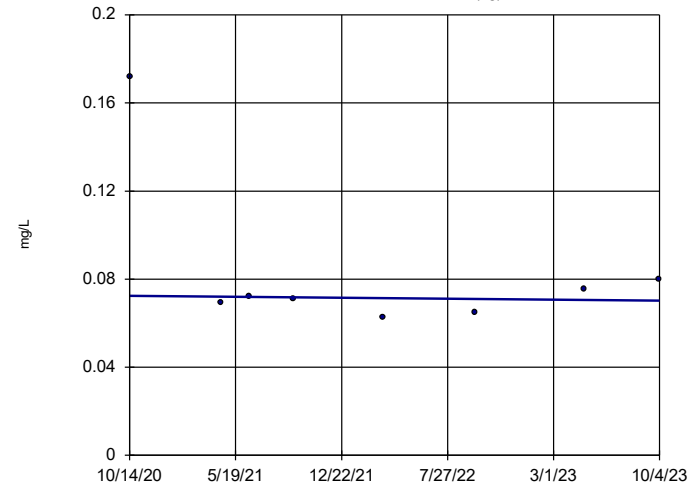


n = 8
 Slope = -0.01279
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -17
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-22S (bg)

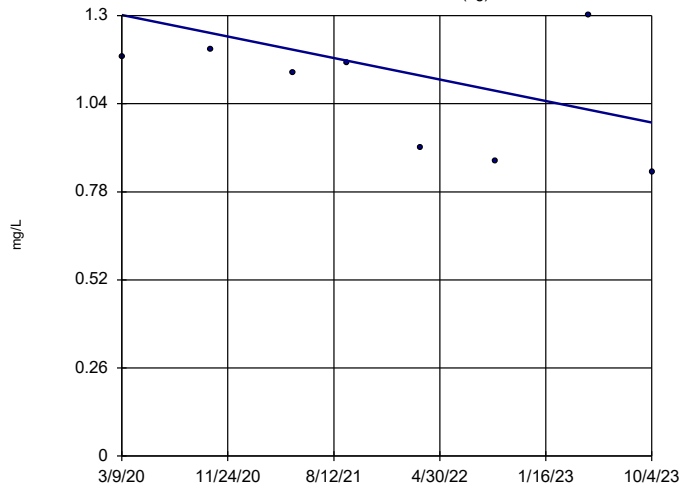


n = 8
 Slope = -0.000713
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 17
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23 (bg)

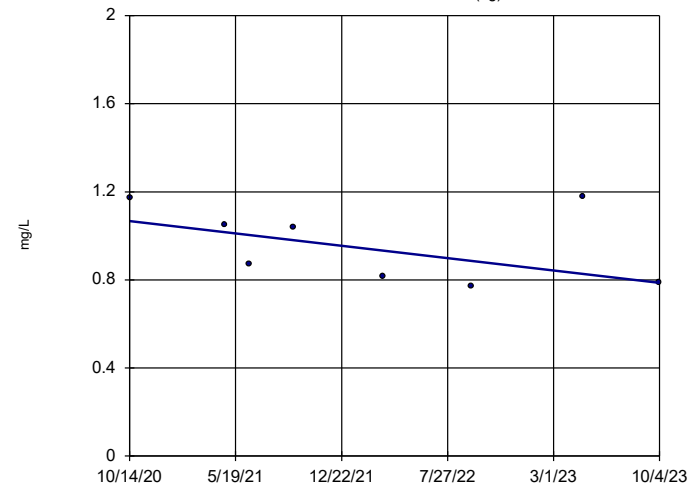


n = 8
 Slope = -0.08875
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -17
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)

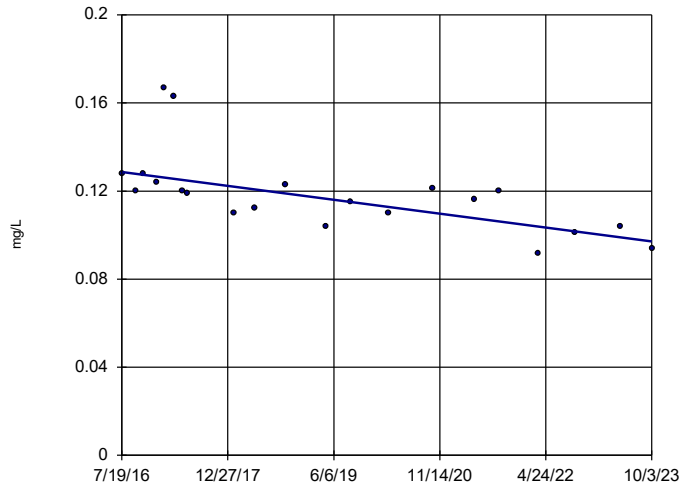


n = 8
 Slope = -0.09422
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -17
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3D

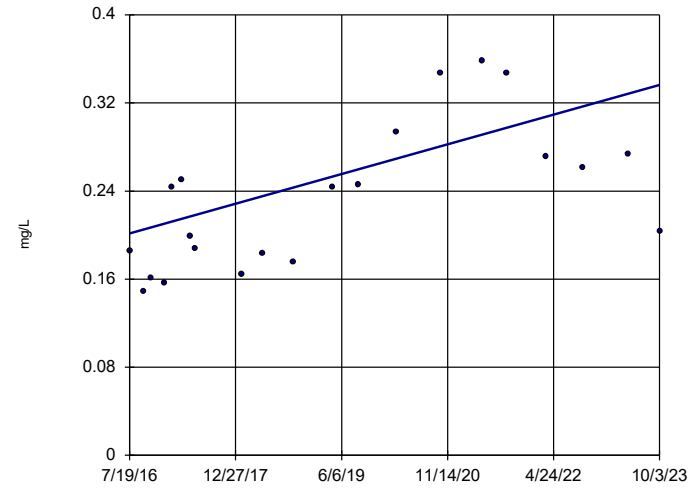


n = 21
 Slope = -0.004373
 units per year.
 Mann-Kendall
 statistic = -116
 critical = -66
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-3S

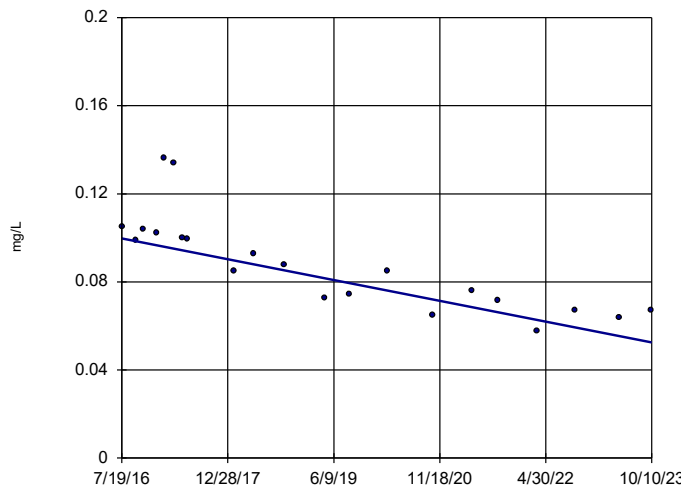


n = 21
 Slope = 0.01871
 units per year.
 Mann-Kendall
 statistic = 103
 critical = 66
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-4

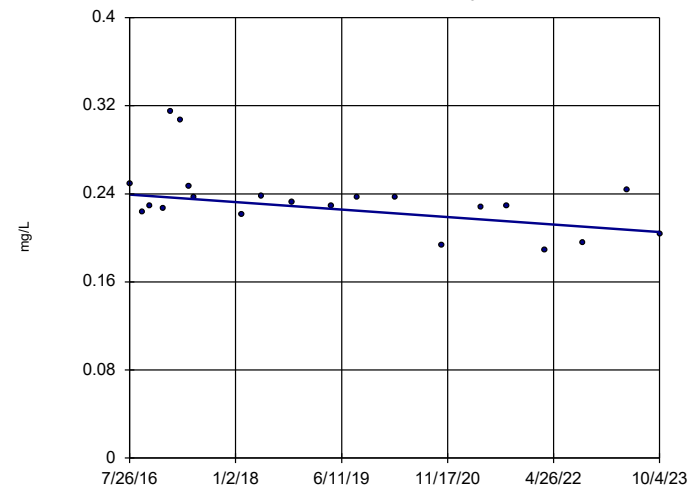


n = 21
 Slope = -0.006514
 units per year.
 Mann-Kendall
 statistic = -156
 critical = -66
 Decreasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-5

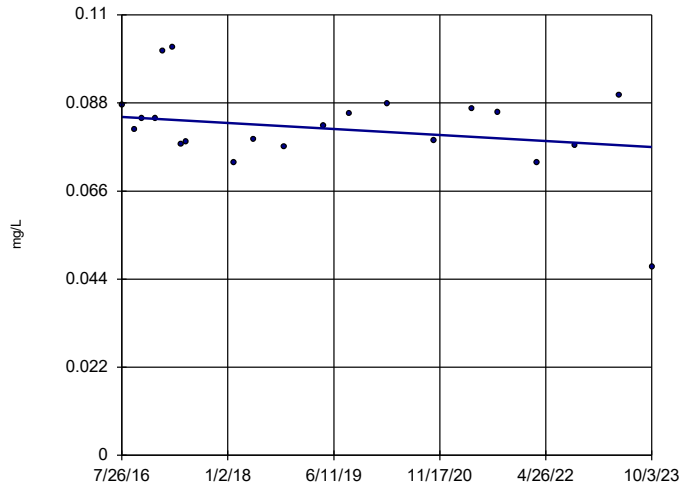


n = 21
 Slope = -0.004737
 units per year.
 Mann-Kendall
 statistic = -66
 critical = -66
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-6

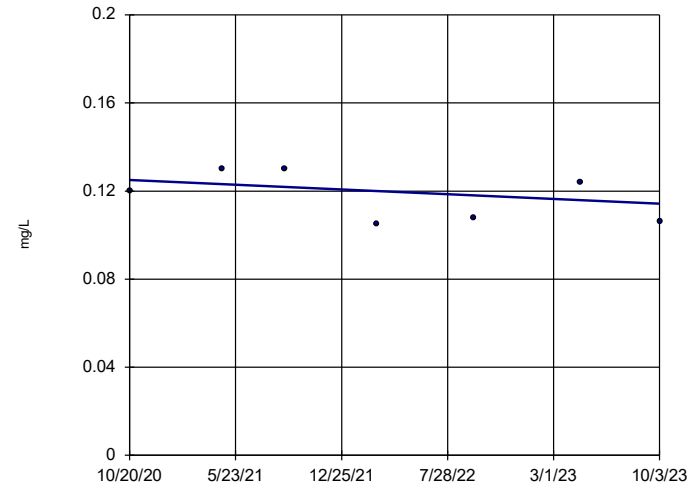


n = 21
 Slope = -0.001049
 units per year.
 Mann-Kendall
 statistic = -32
 critical = -66
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-7DR

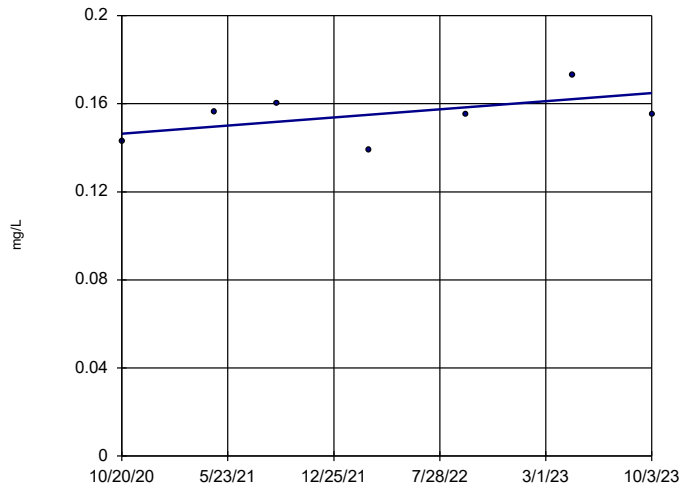


n = 7
 Slope = -0.00365
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -15
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-7SR

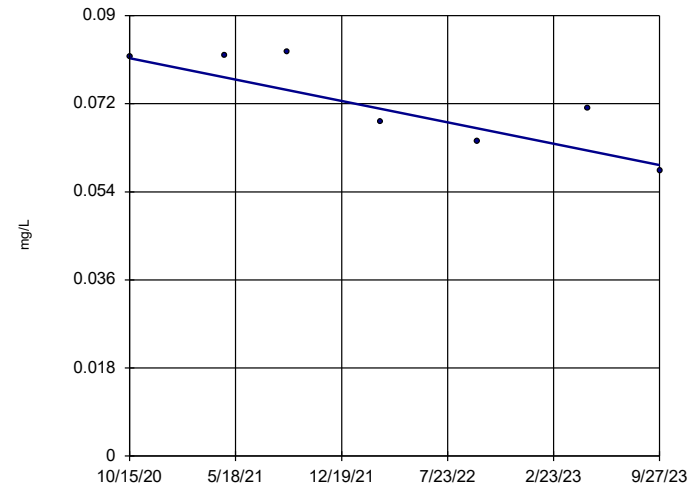


n = 7
 Slope = 0.006257
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 15
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-9DR

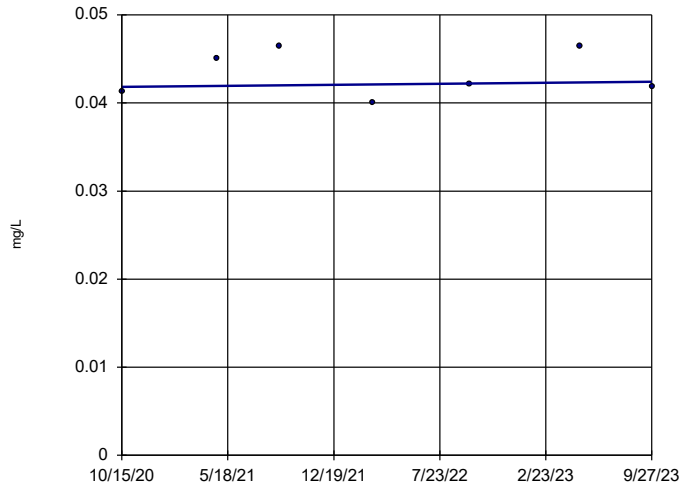


n = 7
 Slope = -0.007411
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -15
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-9SR

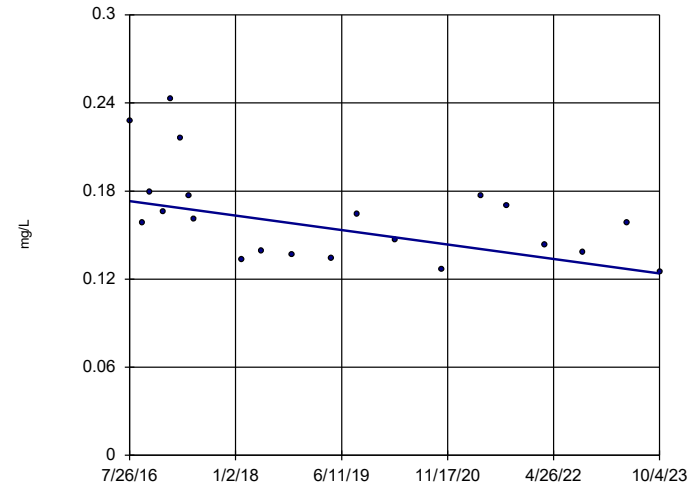


n = 7
 Slope = 0.0002033 units per year.
 Mann-Kendall statistic = 2
 critical = 15
 Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-PZ-5

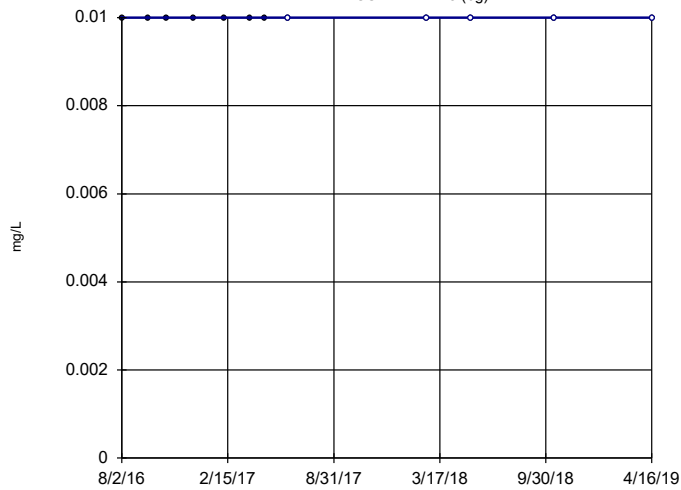


n = 21
 Slope = -0.006839 units per year.
 Mann-Kendall statistic = -84
 critical = -66
 Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

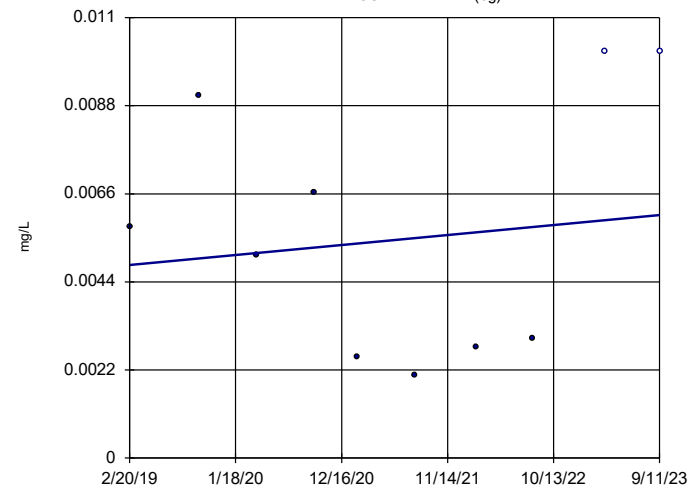


n = 12
 Slope = -8.9e-11 units per year.
 Mann-Kendall statistic = 0
 critical = 30
 Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

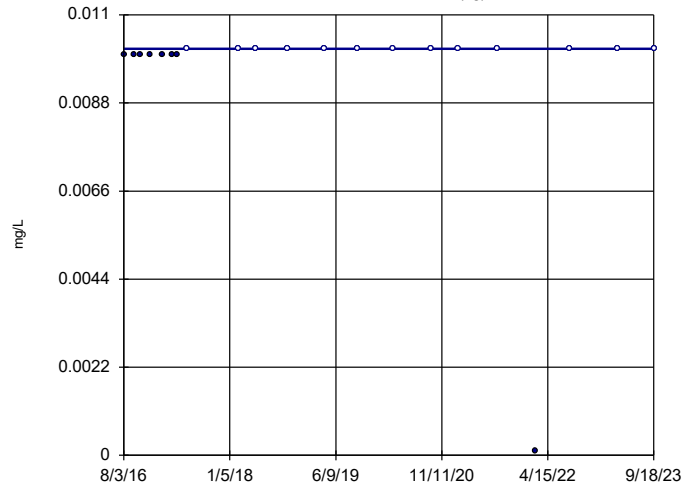


n = 10
 Slope = 0.0002748 units per year.
 Mann-Kendall statistic = 4
 critical = 23
 Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

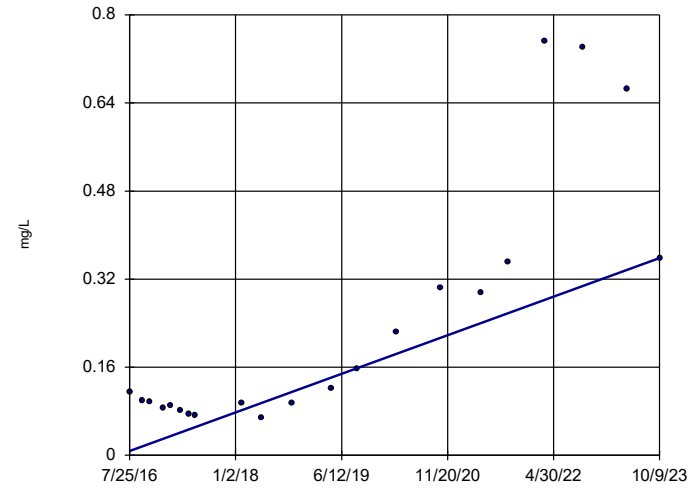


n = 21
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 77
 critical = 66
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Molybdenum Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-10

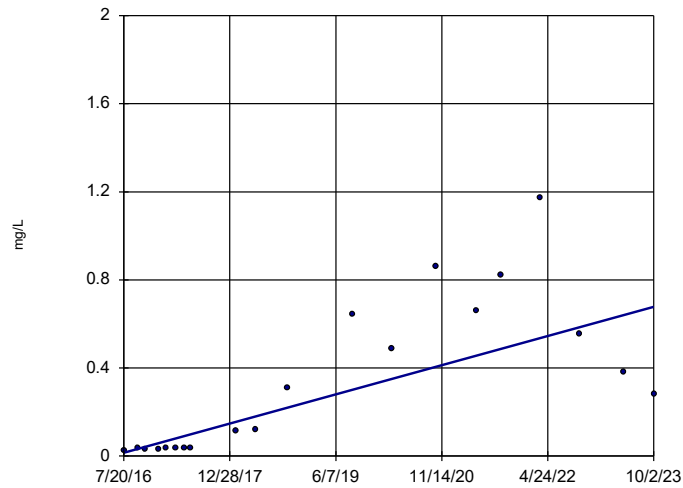


n = 21
 Slope = 0.0486
 units per year.
 Mann-Kendall
 statistic = 112
 critical = 66
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Molybdenum Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-12

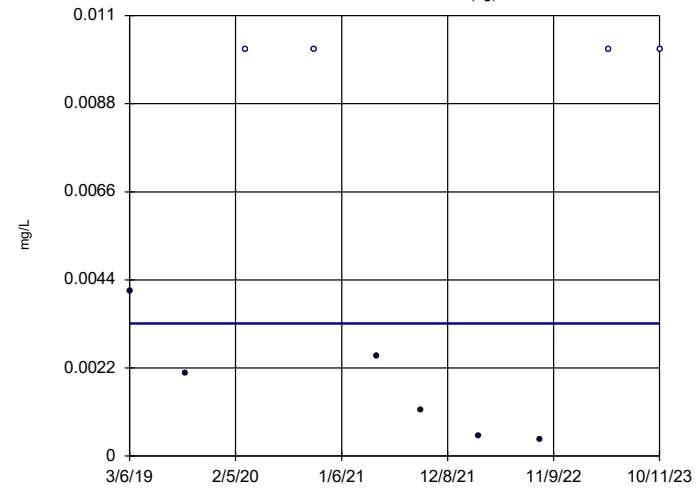


n = 20
 Slope = 0.09188
 units per year.
 Mann-Kendall
 statistic = 128
 critical = 62
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Molybdenum Analysis Run 12/21/2023 2:47 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-21 (bg)

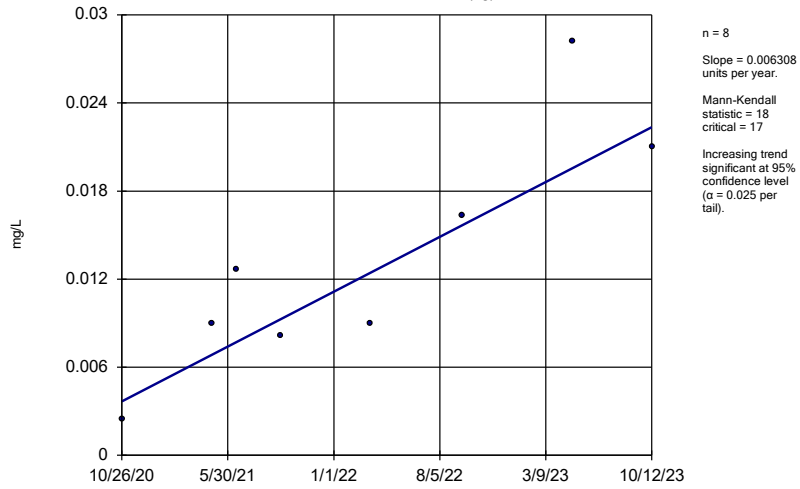


n = 10
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -23
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Molybdenum Analysis Run 12/21/2023 2:48 PM View: Appendix IV Trend Tests
 Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

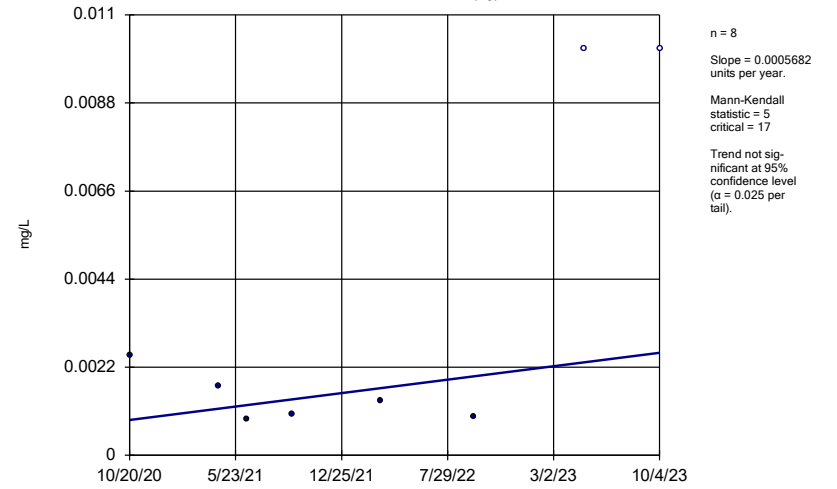
MR-AP-MW-22D (bg)



Constituent: Molybdenum Analysis Run 12/21/2023 2:48 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

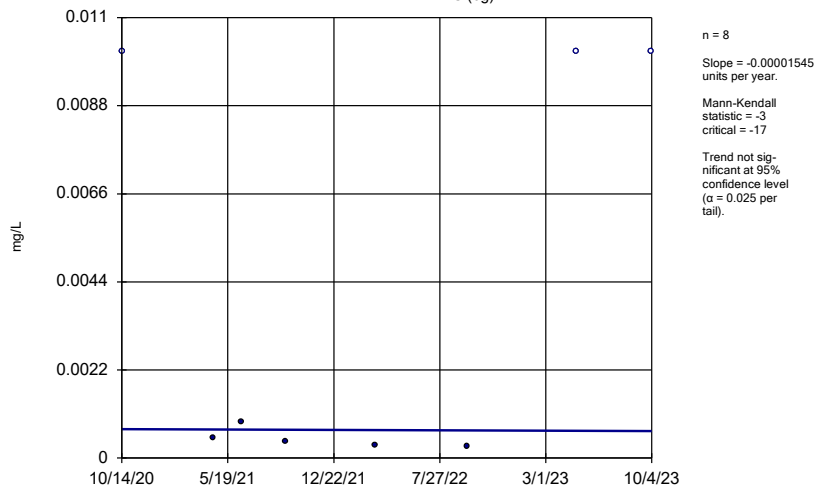
MR-AP-MW-22I (bg)



Constituent: Molybdenum Analysis Run 12/21/2023 2:48 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

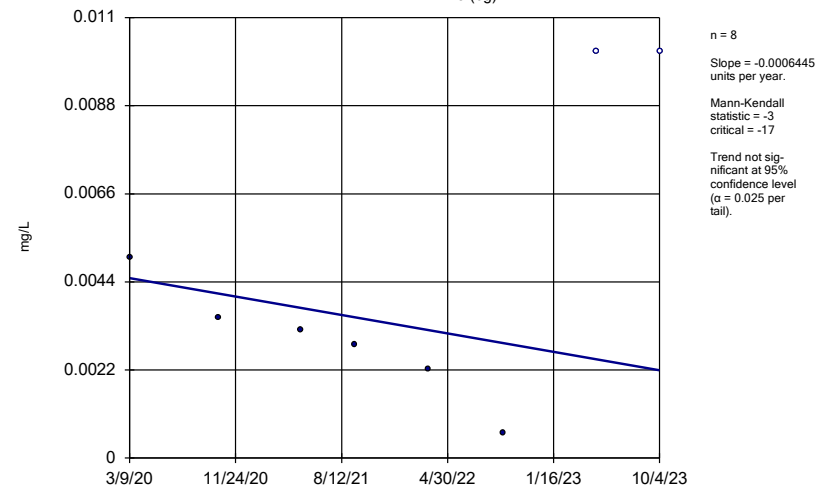
MR-AP-MW-22S (bg)



Constituent: Molybdenum Analysis Run 12/21/2023 2:48 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

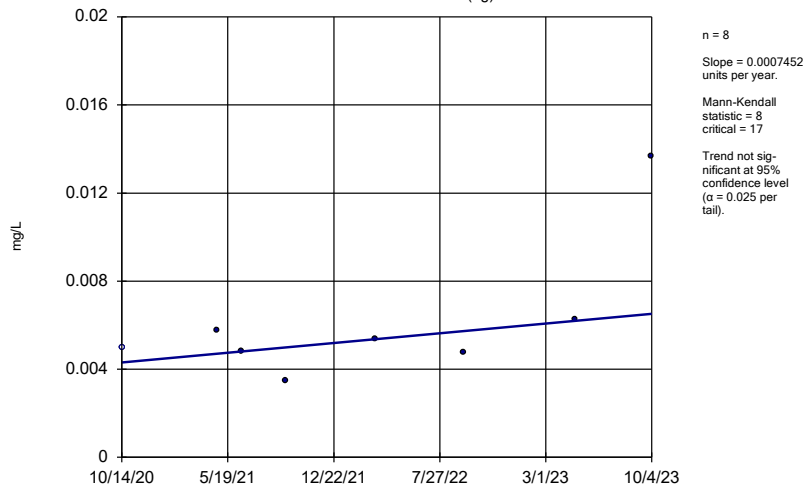
MR-AP-MW-23 (bg)



Constituent: Molybdenum Analysis Run 12/21/2023 2:48 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Sen's Slope Estimator

MR-AP-MW-23A (bg)



Constituent: Molybdenum Analysis Run 12/21/2023 2:48 PM View: Appendix IV Trend Tests
Plant Miller Data: Miller Ash Pond

Appendix E



January 2024
Plant Miller



Laboratory Treatability Study Results

Prepared for Alabama Power Company

January 2024
Plant Miller

Laboratory Treatability Study Results

Prepared for
Alabama Power Company
600 18th Street North
Birmingham, Alabama 35203

Prepared by
Anchor QEA
6720 South Macadam Avenue, Suite 125
Portland, Oregon 97219

TABLE OF CONTENTS

Executive Summary	ES-1
1 Introduction.....	1
2 Selection of Reagents	2
3 Sampling and Initial Characterization	4
3.1 Sample Collection.....	4
3.2 Sample Analysis and Results	4
4 Batch Tests.....	5
4.1 Methodology	5
4.2 Screening Batch Test Results.....	6
4.3 Optimization Batch Test Results.....	6
5 Treatment Mechanisms and Stability	8
6 Conclusions and Recommendations.....	10
7 References.....	12

TABLES

Table 1	Treatments Tested and Reagent Vendor Sources
Table 2	Initial Groundwater Characterization Results
Table 3	Treatments Tested in Screening Batch Tests
Table 4	Screening Batch Test Results
Table 5	Treatment Performance Summary: Screening Batch Tests
Table 6	Treatments Tested in Optimization Batch Tests
Table 7	Optimization Batch Test Results
Table 8	Treatment Performance Summary: Optimization Batch Tests
Table 9	SSE Results

FIGURES

Figure 1	Sampling Locations
Figure 2	Screening Batch Test Results for MR-AP-MW-2
Figure 3	Screening Batch Test Results for MR-AP-MW-3D

Figure 4	Screening Batch Test Results for MR-AP-MW-4V
Figure 5	Screening Batch Test Results for MR-AP-MW-6V
Figure 6	Screening Batch Test Results for MR-AP-MW-10
Figure 7	Screening Batch Test Results for MR-AP-MW-12
Figure 8	Optimization Batch Test Results for MR-AP-MW-2
Figure 9	Optimization Batch Test Results for MR-AP-MW-3D
Figure 10	Optimization Batch Test Results for MR-AP-MW-4V
Figure 11	Optimization Batch Test Results for MR-AP-MW-6V
Figure 12	Optimization Batch Test Results for MR-AP-MW-10
Figure 13	Optimization Batch Test Results for MR-AP-MW-12
Figure 14	SSE Results of Aluminum for Post-Treatment Solids
Figure 15	SSE Results of Iron for Post-Treatment Solids
Figure 16	SSE Results of Manganese for Post-Treatment Solids
Figure 17	SSE Results of Arsenic for Post-Treatment Solids
Figure 18	SSE Results of Cobalt for Post-Treatment Solids
Figure 19	SSE Results of Lithium for Post-Treatment Solids
Figure 20	SSE Results of Molybdenum for Post-Treatment Solids

APPENDIX

Appendix A	Laboratory Analytical Reports
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ABBREVIATIONS

$\mu\text{g/L}$	microgram per liter
BaCl_2	barium chloride
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	cobalt (II) chloride hexahydrate
COI	constituent of interest
DO	dissolved oxygen
EGL	Anchor QEA Environmental Geochemistry Laboratory
FerroBlack	FerroBlack-Fe+
FeCl_3	ferric chloride
$\text{Fe}(\text{OH})_3$	ferrihydrate
FeSO_4	ferrous sulfate
FC	ferric chloride
GWPS	groundwater protection standard
HT-4U	granular hydrotalcite
KMnO_4	potassium permanganate
LDH	layered double hydroxide
M	molar
MgCl_2	magnesium chloride
MnCl_2	manganese chloride
mL	milliliter
NaAlO_2	sodium aluminate
NaOH	sodium hydroxide
Na_2CO_3	sodium carbonate
$\text{Na}_2\text{HAsO}_4 \cdot 7\text{H}_2\text{O}$	sodium arsenate heptahydrate
ORP	oxidation reduction potential
Plant Miller	James H. Miller, Jr., Electric Generating Plant
SC	specific conductivity
Site	Plant Miller Ash Pond
SSE	selective sequential extraction
USEPA	U.S. Environmental Protection Agency

Executive Summary

As described in the *Groundwater Remedy Selection Report* (Anchor QEA 2021a), geochemical manipulation via injections was not selected as one corrective measure for arsenic, cobalt, lithium, and molybdenum in groundwater at the James H. Miller, Jr., Electric Generating Plant (Plant Miller) Ash Pond (Site) located in Jefferson County, Alabama. Geochemical manipulation was not selected because it had not been proven in field applications for effective treatment of inorganic constituents in fractured rock settings at the time of remedy selection. However, to enable the evaluation of geochemical manipulation should injection treatment become necessary at the Site, treatability studies were performed to determine the optimum reagents and their doses and to provide information for the required underground injection control permit and design of the injection treatment at the Site.

Treatability studies for injection treatment (geochemical manipulation) at the Site consisted of the following steps:

- Sampling and characterization of groundwater
- Batch tests, both screening and optimization
- Selective sequential extraction (SSE) on post-treatment solids

Groundwater samples were collected from multiple areas, based on number and concentrations of constituents of interest (COIs), to help select areas for field pilot testing. Groundwater samples were analyzed for major cations, anions, COIs and other Appendix III/IV parameters, and water quality parameters influencing the chemical behavior of the COIs. Prior to beginning treatability testing, confirmatory analysis of the COIs and dissolved aluminum, iron, and manganese concentrations was performed.

Based on previous successful treatability studies at other sites and geochemical studies performed as part of remedy selection (Anchor QEA 2021a), a series of batch tests was performed to determine the effectiveness and to rank the performance of the selected reagents in reducing the COI concentrations in Site groundwater. Reagents were added to test bottles filled with Site groundwater. Groundwater samples collected from six locations at the Site were used in the batch tests and include the following (COIs indicated in parentheses): MR-AP-MW-2 (cobalt and lithium), MR-AP-MW-3D (arsenic and lithium), MR-AP-MW-4V (cobalt and lithium), MR-AP-MW-6V (arsenic and lithium), MR-AP-MW-10 (arsenic, lithium, and molybdenum), and MR-AP-MW-12 (lithium and molybdenum).

In the screening batch tests, 13 reagents (or reagent mixes) and aeration were initially tested. More than one reagent (or reagent mix) effectively removed arsenic, cobalt, lithium, and/or molybdenum from Site groundwater. Multiple single-solution treatments, including ferrous sulfate (FeSO_4), ferric chloride (FeCl_3), and FeCl_3 at pH 5, achieved the groundwater protection standard (GWPS) for arsenic

and molybdenum. However, these treatments did not effectively remove lithium or cobalt from Site groundwater. Ferroblack-Fe+ (FerroBlack) achieved the GWPS for arsenic and cobalt, but not for lithium or molybdenum. Potassium permanganate (KMnO_4) achieved the GWPS for molybdenum. Low dissolved iron concentrations resulted in poor performance of aeration in removing COIs from Site groundwater. One treatment, FeCl_3 + manganese chloride (MnCl_2) + magnesium chloride (MgCl_2), followed by sodium aluminate (NaAlO_2) + KMnO_4 (designated Fe-Mn-Mg-Al-Cl LDH) was successful at decreasing all four COIs to less than the GWPS in the screening batch tests. The Fe-Mn-Mg-Al-Cl LDH reagent mix is a two-injectate solution treatment designed to produce layered double hydroxide (LDH) precipitates in situ. Granular hydrotalcite (HT-4U) is an injectable Mg-Al LDH solid that achieved the GWPS for arsenic, cobalt, and lithium, but not for molybdenum. Similarly, the reagent mix MgCl_2 , followed by NaAlO_2 (Mg-Al-Cl LDH), also designed to produce hydrotalcite-like LDH precipitates, achieved the GWPS for arsenic and cobalt, but not for lithium or molybdenum in all Site groundwater tested.

Based on the screening batch test results, optimization batch tests were designed and carried out to refine the reagent mixes and dosing to achieve the most effective simultaneous arsenic, cobalt, lithium, and molybdenum removal. Four reagent mixes aimed at producing different LDH phases were tested, and sodium hydroxide was replaced with sodium carbonate (Na_2CO_3) for pH adjustment, as Na_2CO_3 is safer to handle in the field. All four reagent mixes tested achieved the GWPS for all COIs. These treatments include Mn-Al-Cl- CO_3 LDH (MnCl_2 , followed by NaAlO_2 + KMnO_4 with Na_2CO_3), Mn-Al-Cl LDH (MnCl_2 , followed by NaAlO_2 + KMnO_4), Fe-Mn-Al-Cl- SO_4 - CO_3 LDH (FeSO_4 + MnCl_2 , followed by NaAlO_2 + KMnO_4 with Na_2CO_3), and Fe-Mn-Al-Cl- SO_4 LDH (FeSO_4 + MnCl_2 , followed by NaAlO_2 + KMnO_4).

Following completion of the batch tests, the post-treatment solids formed during the optimization batch tests were tested using a five-step SSE procedure to evaluate the long-term stability of the precipitates and sequestered COIs. In SSE, a solid sample is extracted by a series of increasingly chemically aggressive solutions that target different binding forms, and the COIs released by each extraction step are quantified. The results are used to determine the mechanisms and strength of binding and inform long-term stability (or reversibility) of the treatment.

SSE results indicate cobalt and molybdenum are bound almost completely (i.e., >92%) in stable solid phases (F3 and F4)—specifically, through chemical bonding to, or incorporation into, metal oxides and hydroxides, such as iron, manganese, and aluminum oxides/hydroxides and LDH phases. Likewise, the majority (56% to 97%) of arsenic and lithium is found in F3 and F4, with the remainder composed principally of F2. The associations of COIs with metal oxide and hydroxide phases were expected and indicate successful treatment, as iron, manganese, and aluminum were major components of the treatment solutions and precipitates formed.

Overall, the Fe-Mn-Al-Cl-SO₄-CO₃ LDH reagent mix effectively treated arsenic, cobalt, lithium, and molybdenum in Site groundwater and is the recommended two-solution treatment for pilot-scale testing (should geochemical manipulation pilot-scale testing be implemented). As part of the pre-design investigation, concentrations and proportions of treatment constituents may need to be adjusted to achieve acceptable residual levels of dissolved manganese in treated groundwater.

1 Introduction

As discussed in the *Groundwater Remedy Selection Report* (Anchor QEA 2021a), geochemical manipulation via injections was not selected as one corrective measure for constituents of interest (COIs) at the James H. Miller, Jr., Electric Generating Plant (Plant Miller) Ash Pond (Site) located in Jefferson County, Alabama. COIs at the Site are arsenic, cobalt, lithium, and molybdenum. However, to enable the evaluation of geochemical manipulation should injection treatment become necessary at the Site, laboratory treatability studies needed to be performed using the Site-impacted groundwater.

Geochemical manipulation removes COIs from groundwater and immobilizes them in situ through the creation of solid precipitates (e.g., layered double hydroxide [LDH] precipitates) formed from injection of treatment solutions (reagents). COIs adsorb to the solid surfaces of precipitates and are incorporated into the solid structures.

The site-specific treatability studies discussed herein were conducted to evaluate reagent selection, dosing, and injection sequencing for in situ groundwater remediation. The treatability study approach includes the following:

- Sampling and characterization (analysis) of groundwater
- Batch testing (screening batch tests, followed by optimization batch tests) to identify, rank, and refine reagents and reagent mixes for removal of COIs from Site groundwater
- Determining the stability of each treatment by selective sequential extraction (SSE) of post-treatment solids to provide information on the mechanisms and stability of COI sequestration

2 Selection of Reagents

Selection and formulation of reagents that can be injected to treat site-specific COIs were based on site-specific groundwater geochemistry; previous Site work; and prior experience from successful treatability studies performed by Anchor QEA, for the same COIs at other sites for confidential clients. The *Monitored Natural Attenuation Demonstration* (Anchor QEA 2021b) documented key geochemical attenuation mechanisms occurring at the Site, including the following:

- Sorption on and/or coprecipitation with iron, manganese, and aluminum oxides and hydroxides for arsenic, cobalt, lithium, and molybdenum
- Cation exchange on oxides and clay minerals for cobalt and lithium
- Potential precipitation of barium arsenate phases for arsenic (predicted by geochemical modeling)

Iron, manganese, and aluminum oxides are strong sorbents for many metals and metalloids, including arsenic (Dixit and Hering 2003; Manning et al. 2003; Mohan and Pittman 2007; Ouard et al. 2002), cobalt (Ainsworth et al. 1994), and molybdenum (Das et al. 2023; Xu et al. 2013). Subsurface geochemical conditions at the Site are generally favorable for formation of iron oxides. Lithium has an affinity for manganese and other metal oxides (Ooi et al. 1988; Yu et al. 2022). Therefore, the treatability studies were initially focused on reagents (or mixtures of reagents) with the potential to increase the abundance and stability of iron, manganese, and/or aluminum oxides and hydroxides in the subsurface. Based on Site conditions and treatability studies previously completed for other sites, the following reagent and reagent mixes were initially selected for treatability testing:

- Aeration
- Ferrous sulfate (FeSO_4)
- Ferric chloride (FeCl_3 ; FC)
- FC with pH adjusted to 5 with sodium hydroxide (NaOH)
- FerroBlack-Fe+ (FerroBlack; injectable iron sulfide)
- Potassium permanganate (KMnO_4)
- FeSO_4 + manganese chloride (MnCl_2), followed by KMnO_4 ; Fe-Mn-Cl- SO_4 LDH
- Fe-Mn-Cl- SO_4 LDH with pH adjusted to 9.5 (NaOH)
- FeCl_3 + MnCl_2 , followed by KMnO_4 ; Fe-Mn-Cl LDH
- Fe-Mn-Cl LDH with pH adjusted to 9.5 (NaOH)
- Barium chloride (BaCl_2)
- Granular hydrotalcite (HT-4U) (Kisuma Chemicals B.V.; injectable magnesium-aluminum LDH)
- Magnesium chloride (MgCl_2), followed by sodium aluminate (NaAlO_2) with pH adjusted to 9.5 (NaOH); Mg-Al-Cl LDH (pH 9.5)
- FeCl_3 + MnCl_2 + MgCl_2 , followed by NaAlO_2 + KMnO_4 with pH adjusted to 9.5 (NaOH); Fe-Mn-Mg-Al-Cl LDH (pH 9.5)

Soluble iron reagents such as FeSO_4 and FeCl_3 are acidic and form iron oxides/hydroxides such as ferrihydrite ($\text{Fe}(\text{OH})_3$) when neutralized. Iron oxides/hydroxides can adsorb and/or coprecipitate arsenic, cobalt, and molybdenum.

FerroBlack is a proprietary amendment from Redox Solutions. The active ingredient in FerroBlack is a reactive iron sulfide, which immobilizes arsenic through adsorption at low arsenic concentrations and precipitation/mineralization of arsenic sulfides at higher arsenic concentrations (Niazi and Burton 2016).

Permanganate has been widely used for in situ chemical oxidation. Permanganate reacts with mineral components in the aquifer matrix to produce manganese oxides, which can adsorb and incorporate COIs (Hou et al. 2017; Al Abdullah et al. 2016; Le and Phuc 2015).

Barium chloride was included in the screening tests because geochemical modeling indicated conditions were favorable for barium arsenate precipitation from groundwater. Increasing the dissolved barium concentration would, therefore, be expected to reduce arsenic concentrations.

Hydrotalcite is a magnesium-aluminum LDH mineral phase that can sequester a wide range of cations and anions from water (Douglas 2014). Previous treatability studies performed by Anchor QEA documented that commercially available hydrotalcite effectively removed lithium. Hydrotalcite can also be precipitated from solution by mixing MgCl_2 and NaAlO_2 . Both commercially available granular hydrotalcite and the injectable reagents (e.g., MgCl_2 , followed by NaAlO_2) were tested to assess effectiveness in reducing lithium and other COI concentrations in Site groundwater.

The full list of treatments tested and reagent vendor sources is included in Table 1. Note that LDHs include a group of phases that can be formed from a range of metal cations (including magnesium, iron, manganese, and aluminum) and anions besides hydroxide (including carbonate, chloride, and sulfate). The different potential forms are designated by the cations and anions in the reagents used to precipitate them (e.g., Mg-Al-Cl LDH refers to the phase[s] formed by reacting MgCl_2 with NaAlO_2).

The effectiveness of these treatments on COI removal was screened and evaluated through a series of batch tests. Bulk chemical composition data (including Appendix III/ IV parameters) of technical-grade reagents were not collected before treatability testing but will be tested prior to field pilot studies.

3 Sampling and Initial Characterization

Groundwater samples were collected from the Site for treatability testing conducted at the Anchor QEA Environmental Geochemistry Laboratory (EGL) in Portland, Oregon.

3.1 Sample Collection

Groundwater samples were collected by Alabama Power Company with support from Anchor QEA from wells MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4V, MR-AP-MW-6V, MR-AP-MW-10, and MR-AP-MW-12 (Figure 1). Five gallons of groundwater were collected from one well on September 19, 2022, and from the other wells on September 26, 2022, for batch tests.

Prior to sampling, monitoring wells were purged until water quality parameters (pH, temperature, specific conductivity [SC], oxidation reduction potential [ORP], and dissolved oxygen [DO]) stabilized. Then, groundwater samples were collected in low-density polyethylene Cubitainers. Cubitainers were filled with zero headspace and packed in Mylar barrier bags containing oxygen-absorbent packets to minimize potential changes in redox conditions during transport to the EGL. Anaerobic conditions were maintained during sample handling at the EGL.

3.2 Sample Analysis and Results

Groundwater samples collected in the field were also sent directly to the Alabama Power Company Environmental Laboratory in Calera, Alabama, and Pace Analytical Services, LLC, and analyzed for major cations, anions, COIs, other Appendix III/IV parameters, in addition to water quality parameters influencing the chemical behavior of the COIs (Table 2). Prior to commencing treatability testing at the EGL, groundwater samples in the received Cubitainers were subsampled and submitted to ALS Environmental in Kelso, Washington, for confirmatory analysis of COIs and dissolved iron and manganese concentrations (Table 2). Laboratory analytical reports are included in Appendix A. Water quality parameters including pH, ORP, and DO were measured at the EGL (Table 2). The dissolved arsenic concentrations in MR-AP-MW-3D and MR-AP-MW-6V and dissolved cobalt concentrations in MR-AP-MW-4V as received at the EGL were slightly lower than expected compared to historical data.

4 Batch Tests

4.1 Methodology

A series of batch tests was performed to determine and rank the performance of the selected reagents in reducing the COI concentrations in Site groundwater. Reagents (or reagent mixes) were added to test bottles filled with Site groundwater. Control test bottles containing untreated groundwater only were also prepared. The performance of the reagents (or reagent mixes) was evaluated in terms of the COI removal efficiencies relative to controls and the final COI concentrations compared to the respective groundwater protection standard (GWPS).

Batch tests were performed in two phases: 1) screening batch tests to assess and compare the effectiveness of all the reagents (or reagent mixes) to remove the target COIs present in each groundwater tested; and 2) optimization batch tests to improve performance of selected treatments retained from the screening batch tests by adjusting reagent composition, reagent dose, and/or pH.

Except for aeration, all the batch tests were set up and sampled in an anaerobic chamber under a nitrogen atmosphere to minimize exposure to air. The general procedure for the batch tests is described in the following steps:

1. Test bottles were prepared in a controlled-atmosphere glove box with 200 milliliters (mL) of groundwater. The initial arsenic concentrations in Site groundwater collected from MR-AP-MW-3D and MR-AP-MW-6V as received at the EGL were slightly lower than expected based on historical data (10 to 15 micrograms per liter [$\mu\text{g/L}$] in MR-AP-MW-3D and 1 to 24 $\mu\text{g/L}$ in MR-AP-MW-6V); therefore, groundwater from these wells was spiked with arsenic prior to testing using an arsenic stock solution prepared from sodium arsenate heptahydrate ($\text{Na}_2\text{HAsO}_4 \cdot 7\text{H}_2\text{O}$). The target spiked dissolved arsenic concentrations of 100 $\mu\text{g/L}$ for screening batch tests and 200 $\mu\text{g/L}$ for optimization batch tests were selected to be higher than the historical range to ensure treatment. The initial cobalt concentration in MR-AP-MW-4V groundwater as received at the EGL was also slightly lower than expected based on historical data (2 to 13 $\mu\text{g/L}$). Therefore, the MR-AP-MW-4V groundwater sample was spiked with cobalt using a cobalt stock solution prepared from cobalt (II) chloride hexahydrate ($\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$). The target spiked dissolved cobalt concentration was 50 $\mu\text{g/L}$, which is higher than the historical concentrations. Spiking of lithium and molybdenum was not necessary because the initial concentrations were consistent with historical data.
2. Reagents or reagent mixes were added to the test bottles at predetermined doses based on groundwater chemistry and previous successful treatability studies at other sites. The treatments tested for the screening and optimization batch tests are presented in Tables 3 and 6, respectively. The test bottles were sealed in Mylar bags with oxygen-absorbent packets,

removed from the anaerobic chamber, and placed on a shaker table for 7 days. The aeration test bottles were placed on a countertop with caps open for 7 days.

3. At the end of the reaction period, the test bottles were returned to the anaerobic chamber for sampling. Supernatants were collected from the test bottles using 0.45-micron polyethersulfone syringe filters and preserved with nitric acid. The filtered water samples were submitted to ALS Environmental and analyzed for dissolved COIs and select treatment reagent constituents by U.S. Environmental Protection Agency (USEPA) Method 200.8 (inductively coupled plasma mass spectrometry). Water quality parameters including pH, ORP, and SC were also measured at the time of collection.
4. At the end of the optimization batch tests, the solid precipitates were also recovered. A portion was used for SSE analysis and the remainder archived for possible future characterization. SSE was performed on the precipitates formed in the MR-AP-MW-2 and MR-AP-MW-10 optimization batch tests.

4.2 Screening Batch Test Results

The results of the screening batch tests are summarized in Tables 4 and 5 and Figures 2 through 7, and the laboratory analytical reports are included in Appendix A. The treatments that lowered all COI concentrations to less than the GWPS for each of the groundwaters tested are listed below:

- MR-AP-MW-2 (COIs: cobalt and lithium): HT-4U and Fe-Mn-Mg-Al-CI LDH (pH 9.5)
- MR-AP-MW-3D (COIs: arsenic and lithium): Fe-Mn-CI LDH (pH 9.5), HT-4U, Mg-Al-CI LDH (pH 9.5), and Fe-Mn-Mg-Al-CI LDH (pH 9.5)
- MR-AP-MW-4V (COIs: cobalt and lithium): HT-4U, Mg-Al-CI LDH (pH 9.5), and Fe-Mn-Mg-Al-CI LDH (pH 9.5)
- MR-AP-MW-6V (COIs: arsenic and lithium): FB-Fe+, Fe-Mn-CI LDH (pH 9.5), HT-4U, Mg-Al-CI LDH (pH 9.5), and Fe-Mn-Mg-Al-CI LDH (pH 9.5)
- MR-AP-MW-10 (COIs: arsenic, lithium, and molybdenum): Fe-Mn-Mg-Al-CI LDH (pH 9.5)
- MR-AP-MW-12 (COIs: lithium and molybdenum): Fe-Mn-CI-SO₄ LDH (pH 9.5) and Fe-Mn-Mg-Al-CI LDH (pH 9.5)

4.3 Optimization Batch Test Results

In the screening batch tests, only the Fe-Mn-Mg-Al-CI LDH (pH 9.5) treatment lowered the COI concentrations to less than the GWPS for all COIs in all wells tested (Tables 4 and 5). The first objective of the optimization batch tests was to evaluate the effectiveness of simpler LDH formulations (without magnesium, and without magnesium and iron). The second objective was to maintain targeted pH buffering by replacing NaOH with sodium carbonate (Na₂CO₃), which is safer to handle in the field. Based on the screening batch test results and previous treatability studies

performed by Anchor QEA for other coal combustion residuals sites, the following treatments were selected and tested in the optimization batch tests:

- Mn-Al-Cl LDH: MnCl_2 , followed by $\text{NaAlO}_2 + \text{KMnO}_4$
- Mn-Al-Cl- CO_3 LDH: MnCl_2 , followed by $\text{NaAlO}_2 + \text{KMnO}_4$ with Na_2CO_3
- Fe-Mn-Al-Cl- SO_4 LDH: $\text{FeSO}_4 + \text{MnCl}_2$, followed by $\text{NaAlO}_2 + \text{KMnO}_4$
- Fe-Mn-Al-Cl- SO_4 - CO_3 LDH: $\text{FeSO}_4 + \text{MnCl}_2$, followed by $\text{NaAlO}_2 + \text{KMnO}_4$ with Na_2CO_3

Reagents tested are summarized in Table 6.

Results from the optimization batch tests are summarized in Figures 8 through 13, the data are provided in Table 7, and the laboratory analytical reports are included in Appendix A. Table 8 summarizes the performance of the treatments tested in the optimization batch tests to remove COIs from Site groundwater. All four treatments decreased arsenic, cobalt, lithium, and molybdenum concentrations to less than the GWPS for all Site groundwaters tested.

Additional criteria used to rank the treatments included potential for secondary water quality effects such as residual dissolved concentrations of treatment reagents (e.g., manganese and iron). Residual manganese concentrations, in particular, were elevated, as manganese solubility generally increases below a pH of 7 to 8. The two treatment mixes that included FeSO_4 resulted in lower residual dissolved manganese concentrations (Table 7) and low residual iron concentrations. These reagent mixes likely produced ferric iron-containing oxide/hydroxide phases, which are relatively insoluble over a wide pH range under oxidizing conditions (Hem 1963) and can adsorb and incorporate dissolved manganese.

5 Treatment Mechanisms and Stability

SSE determines the distribution of specific chemical constituents, including COIs, among different binding forms in the solid-phase precipitates formed as a result of treatment. SSE results provide insights into the nature of the precipitates, COI removal mechanisms and potential for remobilization, and long-term stability of the sequestered COIs. Specifically, SSE quantifies the concentrations of target constituents in five operationally defined fractions, F1 through F5, which are extracted from the solid sample by increasingly chemically aggressive solutions. The fractions, extraction solutions used, and binding forms and phases targeted by each are summarized as follows:

Fraction No.	Fraction Name	Extraction Solution	Targeted Phases/Species
F1	Soluble	1 M magnesium chloride adjusted to pH 7	Dissolved and weakly sorbed species
F2	Exchangeable	1 M monosodium phosphate at pH 5	Strongly sorbed, e.g., on oxides
F3	Reducible	0.1 M hydroxylamine/hydrochloric acid adjusted to pH 2 with nitric acid	Poorly crystalline metal oxides such as iron and manganese oxides
F4	Strong acid/oxidizable	16 M nitric acid	Crystalline oxides
F5	Residual	Digestion by USEPA Method 3050B	Recalcitrant phases in the post-treatment solids

SSE was performed on precipitates recovered from the optimization batch tests for MR-AP-MW-2 and MR-AP-MW-10 in accordance with the EGL standard operating procedure modified after Tessier et al. (1979). These batch test precipitates were selected for SSE because MR-AP-MW-10 contained the highest initial lithium and molybdenum concentrations and also contained arsenic, and MR-AP-MW-2 had the highest initial cobalt concentration and the second-highest initial lithium concentration of the Site groundwaters tested. Approximately 1 gram (dry weight) of the recovered post-treatment solids was weighed into a 50-mL centrifuge tube and extracted with the solutions in the sequence described above.

The SSE results are summarized in Figures 14 through 20 and Table 9; the analytical data are included in Appendix A. All precipitates were completely dissolved by F4; therefore, the F5 extraction was not performed.

The main components of the precipitates (iron, manganese, and aluminum) were consistently extracted in F4, indicating high stability of the solid phases formed (Figures 14 through 16). A portion of the manganese was also extracted in F3 (reducible fraction), consistent with the formation of oxides and LDHs containing manganese in an oxidized state (Figure 16).

SSE results indicate arsenic, cobalt, lithium, and molybdenum are sequestered in relatively stable forms in the precipitates (Figures 17 through 20). Arsenic is predominantly distributed among F2, F3, and F4, indicating adsorption on and incorporation into iron, manganese, and/or aluminum oxide and hydroxide phases (Figure 17). Cobalt is predominantly distributed in F3 and F4 (Figure 18). Lithium is predominantly distributed in F3, with variable but lesser amounts in F2 and F4 (Figure 19). Molybdenum was predominantly distributed in F4 and, to a lesser extent, in F3 (Figure 20).

The precipitates recovered from treatments that included Na_2CO_3 for pH buffering generally had higher COI concentrations than those from the treatments without Na_2CO_3 (Figures 17 through 20). This observation suggests pH buffering with Na_2CO_3 provides optimal simultaneous removal of arsenic, cobalt, lithium, and molybdenum from the groundwaters tested and may enhance COI uptake capacity by the precipitates.

6 Conclusions and Recommendations

Batch tests were performed to evaluate the effectiveness of select reagents and reagent mixes in removing the COIs (i.e., arsenic, cobalt, lithium, and molybdenum) from Site groundwater. Performance criteria evaluated included the COI removal efficiency, treatment capacity, stability of sequestered COIs, and potential for unintended consequences such as elevated residual concentrations of reagent constituents in groundwater. Major conclusions of the treatability studies are as follows:

- Reagent mixes designed to form LDH precipitates achieved the GWPS for arsenic, cobalt, lithium, and molybdenum in the optimization batch tests for all six groundwaters tested (MR-AP-MW-2, MR-AP-MW-3D, MR-AP-MW-4V, MR-AP-MW-6V, MR-AP-MW-10, and MR-AP-MW-12):
 - Mn-Al-Cl LDH
 - Mn-Al-Cl-CO₃ LDH
 - Fe-Mn-Al-Cl-SO₄ LDH
 - Fe-Mn-Al-Cl-SO₄-CO₃ LDH
- The precipitates consist of highly stable aluminum, manganese, and iron oxide, hydroxide, and/or LDH solid phases.
- Arsenic, cobalt, lithium, and molybdenum are strongly bound to and incorporated in these solid phases.
- Use of Na₂CO₃ for pH buffering measurably increased COI uptake capacity.
- Residual dissolved manganese concentrations in the batch test bottles following treatment were elevated. Treatments that included FeSO₄ had lower residual manganese concentrations.

Should geochemical manipulation pilot testing be implemented, recommendations and considerations based on the laboratory treatability studies are as follows:

- The Fe-Mn-Al-Cl-SO₄-CO₃ LDH reagent mix is recommended for field pilot testing. The four effective treatments identified in the optimization batch tests represent variations of a two-solution injection approach to simultaneously remove arsenic, cobalt, lithium, and molybdenum from Site groundwater by precipitation of LDH-type phase(s) with pH buffering optimized for the specific COIs present.
- The proportions and concentrations of the reagents can be further tailored, if necessary, to account for groundwater conditions at field pilot test locations (e.g., if pilot testing is to be performed at a different location than that of the wells used for treatability testing).
- Residual dissolved manganese concentrations may be elevated for some time following injection. Although it is expected that manganese will be attenuated downgradient of the injection location, residual concentrations can also be controlled by reducing the concentrations in the injection solutions or recovery of residual injectate by groundwater

extraction, either at a downgradient well location or at the injection well (i.e., push-pull treatment).

- Following selection of pilot locations and prior to implementation of field pilot tests, groundwater chemistry data should be reviewed, especially if a pilot test location is at a different location than that of the wells tested in this laboratory treatability study. If significant differences in groundwater chemistry are identified, confirmatory batch testing is recommended to confirm treatment performance and, if necessary, adjust the proposed injection reagent mix.
- Yield and distribution of precipitates produced by the two-solution injection in the field may vary based on groundwater chemistry and method of injection. The need for further optimization of proportions and concentrations of treatment constituents should be evaluated as part of pre-design activities.

7 References

- Ainsworth, C.C., J.L. Pilon, P.L. Gassman, and W.G. Van Der Sluys, 1994. "Cobalt, Cadmium, and Lead Sorption to Hydrous Iron Oxide: Residence Time Effect." *Soil Science Society of America Journal* 58:1615–1623.
- Al Abdullah, J., A.G. Al Lafi, W. Al Masri, Y. Amin, and T. Alnama, 2016. "Adsorption of Cesium, Cobalt, and Lead onto a Synthetic Nano Manganese Oxide: Behavior and Mechanism." *Water, Air, & Soil Pollution* 227(7):1–14.
- Anchor QEA (Anchor QEA), 2021a. *Groundwater Remedy Selection Report*. Plant Miller. Prepared for Alabama Power Company. November 2021.
- Anchor QEA, 2021b. *Monitored Natural Attenuation Demonstration*. Plant Miller. Prepared for Alabama Power Company. November 2021.
- Das, N.B., C.M. Navarhna, J. Alchouron, B. Arwenyo, S. Rahman, B. Hoffman, K. Lee, S. Stokes, R. Anderson, F. Perez, D. Mohan, C.U. Pittman Jr., and T. Mlsna, 2023. "Efficient Aqueous Molybdenum Removal Using Commercial Douglas Fir Biochar and Its Iron Oxide Hybrids." *Journal of Hazardous Materials* 443:130257.
- Dixit, S., and J.G. Hering, 2003. "Comparison of Arsenic(V) and Arsenic(III) Sorption onto Iron Oxide Minerals: Implication for Arsenic Mobility." *Environmental Science and Technology* 37: 4182–4189.
- Douglas, G.B., 2014. "Contaminant Removal from Acidic Mine Pit Water via In Situ Hydrotalcite Formation." *Applied Geochemistry* 51: 15–22.
- Hem, J.D., 1963. "Chemical Equilibria Affecting the Behavior of Manganese in Natural Water." *Hydrological Sciences Journal* 8(3):30–37.
- Hou, J., J. Luo, S. Song, Y. Li, and Q. Li, 2017. "The Remarkable Effect of the Coexisting Arsenite and Arsenate Species Ratios on Arsenic Removal by Manganese Oxide." *Chemical Engineering Journal* 315:159–166.
- Le, N.C., and D.V. Phuc, 2015. "Sorption of Lead (II), Cobalt (II) and Copper (II) Ions from Aqueous Solutions by γ -MnO₂ Nanostructure." *Advances in Natural Sciences: Nanoscience and Nanotechnology* 6(2):025014.
- Manning, BA., S.E. Fendorf, B. Bostick, and D.L. Suarez, 2003. "Arsenic (III) Oxidation and Arsenic (V) Adsorption Reactions on Synthetic Birnessite." *Environmental Science and Technology* 36: 976–981.

- Mohan, D., and C.U. Pittman Jr., 2007. "Arsenic Removal from Water/Wastewater Using Adsorbents – A Critical Review." *Journal of Hazardous Materials* 142:1–53.
- Niazi, K.N., and E.D. Burton, 2016. "Arsenic Sorption to Nanoparticle Mackinawite (FeS): An Examination of Phosphate Competition." *Environmental Pollution* 218:111–117.
- Ooi, K., Y. Miyai, S. Katoh, H. Maeda, and M. Abe, 1988. "The pH Titration Study of Lithium Ion Adsorption on λ -MnO₂." *Bulletin of the Chemical Society of Japan* 61:407–411.
- Ouward, S., M. Simonnot, and M. Sardin, 2002. "Reactive Behavior of Natural Manganese Oxides Toward the Adsorption of Phosphate and Arsenate." *Industrial Engineering and Chemical Research* 41:2785–2791.
- Tessier, A., P.G.C. Campbell, and M. Bisson, 1979. "Sequential Extraction Procedure for the Speciation of Particulate Trace Metals." *Analytical Chemistry* 51(7):844–851.
- Xu, N., W. Braida, C. Christodoulatos, and J. Chen, 2013. "A Review of Molybdenum Adsorption in Soils/Bed Sediments: Speciation, Mechanism, and Model Applications." *Soil and Sediment Contamination: An International Journal* 22(8):912–929.
- Yu, H., G. Naidu, C. Zhang, C. Wang, A. Razmjou, D.S. Han, T. He, and H. Shon, 2022. "Metal-Based Adsorbents for Lithium Recovery from Aqueous Resources." *Desalination* 539:115951.

Tables

Table 1
Treatments Tested and Reagent Vendor Sources

No.	Treatment	Abbreviation	Reagent Vendor	Notes
1	Aeration	Aeration	--	Passive aeration
2	Ferrous sulfate	FS	Acros Organics	≥99% for analysis grade
3	Ferric chloride ¹	FC	Acros Organics	99% for analysis grade
5	FerroBlack-Fe+	FB-Fe+	Redox Solutions	Injectable iron sulfide
6	Potassium permanganate	PM	Fisher Chemical	ACS grade
7	Ferrous sulfate with manganese chloride, followed by potassium permanganate ²	Fe-Mn-Cl-SO ₄ LDH	Acros Organics (FeSO ₄), ChemProducts (MnCl ₂), and Fisher Chemical (KMnO ₄)	≥99% for analysis grade (FeSO ₄); ACS grade (KMnO ₄); ACS grade (MnCl ₂)
8	Ferric chloride with manganese chloride, followed by potassium permanganate ²	Fe-Mn-Cl LDH	Acros Organics (FeCl ₃), ChemProducts (MnCl ₂), and Fisher Chemical (KMnO ₄)	99% for analysis grade (FeCl ₃); ACS grade (KMnO ₄); ACS grade (MnCl ₂)
9	Barium chloride	BaCl ₂	Sigma Aldrich	99.9% trace metals basis
11	Granular hydrotalcite	HT-4U	Kisuma Chemicals	Granular magnesium aluminum hydrotalcite crushed with a mortar and pestle
10	Magnesium chloride, followed by sodium aluminate ³	Mg-Al-Cl LDH (pH 9.5)	ChemProducts (MgCl ₂) and Spectrum Chemical (NaAlO ₂)	ACS grade (MgCl ₂); technical grade (NaAlO ₂)
12	Ferric chloride with manganese chloride and magnesium chloride, followed by sodium aluminate and potassium permanganate ³	Fe-Mn-Mg-Al-Cl LDH (pH 9.5)	Acros Organics (FeCl ₃) and ChemProducts (MnCl ₂), ChemProducts (MgCl ₂), Spectrum Chemical (NaAlO ₂), and Fisher Chemical (KMnO ₄)	99% for analysis grade (FeCl ₃); ACS grade (MnCl ₂); ACS grade (MgCl ₂); technical grade (NaAlO ₂); ACS grade (KMnO ₄)
13	Manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate	Mn-Al-Cl-CO ₃ LDH	ChemProducts (MnCl ₂), Spectrum Chemical (NaAlO ₂), Fisher Chemical (KMnO ₄), and LabChem (Na ₂ CO ₃)	ACS grade (MnCl ₂); technical grade (NaAlO ₂); ACS grade (KMnO ₄); ACS grade (Na ₂ CO ₃)
14	Ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate	Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH	Acros Organics (FeSO ₄), ChemProducts (MnCl ₂), Spectrum Chemical (NaAlO ₂), Fisher Chemical (KMnO ₄), and LabChem (Na ₂ CO ₃)	≥99% for analysis grade (FeSO ₄); ACS grade (MnCl ₂); technical grade (NaAlO ₂); ACS grade (KMnO ₄); ACS grade (Na ₂ CO ₃).
15	Manganese chloride, followed by sodium aluminate and potassium permanganate	Mn-Al-Cl LDH	ChemProducts (MnCl ₂), Fisher Chemical (KMnO ₄), and Spectrum Chemical (NaAlO ₂)	ACS grade (MnCl ₂); ACS grade (KMnO ₄); technical grade (NaAlO ₂)
16	Ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate	Fe-Mn-Al-Cl-SO ₄ LDH	Acros Organics (FeSO ₄), ChemProducts (MnCl ₂), Spectrum Chemical (NaAlO ₂), and Fisher Chemical (KMnO ₄)	≥99% for analysis grade (FeSO ₄); ACS grade (MnCl ₂); technical grade (NaAlO ₂); ACS grade (KMnO ₄)

Notes:

1. Reagent was also tested at pH 5 (adjusted by sodium hydroxide).
2. Reagent mix was tested at neutral pH and at pH 9.5 (adjusted by sodium hydroxide).
3. Reagent mix was tested at pH 9.5 (adjusted by sodium hydroxide).

--: not applicable

ACS: American Chemical Society

LDH: layered double hydroxide

Table 2
Initial Groundwater Characterization Results

Parameter	Unit	MR-AP-MW-2		MR-AP-MW-3D		MR-AP-MW-4V		MR-AP-MW-6V		MR-AP-MW-10		MR-AP-MW-12	
		9/26/2022	10/3/2022	9/19/2022	10/3/2022	9/26/2022	10/3/2022	9/26/2022	10/3/2022	9/26/2022	10/3/2022	9/26/2022	10/3/2022
Arsenic	µg/L	4.01	6.97	12.8	10.8	3.75	2.30	1.39	0.730	32.3	32.1	7.09	8.56
Arsenic, filtered	µg/L	4.71	3.87	10.7	8.37	3.43	1.82	0.842	0.610	32.3	31.5	7.28	6.78
Cobalt	µg/L	52.2	55.2	3.97	3.38	8.86	8.18	0.852	0.695	1.37	1.38	1.42	0.899
Cobalt, filtered	µg/L	56.0	55.0	3.80	3.27	9.07	7.85	0.746	0.690	1.39	1.36	1.36	0.819
Lithium	µg/L	221	193	101	88.5	155	144	93.8	94.3	267	231	233	80.4
Lithium, filtered	µg/L	219	186	102	86.7	153	143	95.4	91.3	263	232	214	78.0
Molybdenum	µg/L	1.66	2.73	26.4	24.6	27.8	32.4	7.01	6.71	740	2.73	555	753
Molybdenum, filtered	µg/L	1.42	1.87	24.9	24.3	27.9	30.5	6.54	6.47	745	828	560	724
Iron	mg/L	203	182	2.98	2.29	2.60	2.01	0.937	0.144	2.61	2.60	1.45	2.19
Iron, filtered	mg/L	248	180	2.50	1.69	2.20	1.36	0.324	0.0096	2.54	1.82	1.43	1.58
Manganese	mg/L	3.50	3.50	1.16	1.20	2.35	2.60	0.528	0.632	1.07	3.50	0.49	0.652
Manganese, filtered	mg/L	3.48	3.43	1.23	1.18	2.41	2.44	0.508	0.619	1.05	1.06	0.495	0.639
pH	SU	6.37	5.70	6.77	6.50	6.75	6.40	7.76	6.87	7.16	6.60	6.71	6.42
Dissolved oxygen	mg/L	0.250	--	0.320	--	0.310	1.51	8.52	1.81	0.450	1.29	1.38	1.49
Oxidation reduction potential	mV	-61.1	-15.5	-61.1	-25.3	-74.7	-7.10	-66.6	-24.3	-121	-61.3	-13.9	-18.1
Specific conductivity	µS/cm	2510	1650	1050	883	1460	1190	919	759	3330	2330	2020	1890
Antimony	mg/L	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--
Antimony, filtered	mg/L	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--
Barium	mg/L	0.0164	--	0.0339	--	0.0186	--	0.0343	--	0.0169	--	0.019	--
Barium, filtered	mg/L	0.0169	--	0.0319	--	0.0181	--	0.0292	--	0.0167	--	0.0178	--
Beryllium	mg/L	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--
Beryllium, filtered	mg/L	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--
Boron	mg/L	0.153	--	0.389	--	0.855	--	0.455	--	7.39	--	4.96	--
Boron, filtered	mg/L	0.156	--	0.381	--	0.866	--	0.469	--	7.39	--	4.99	--
Cadmium	mg/L	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.000098 J	--	0.0002 U	--
Cadmium, filtered	mg/L	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.000073 J	--	0.000107 J	--
Calcium	mg/L	208	--	145	--	297	--	109	--	184	--	80.7	--
Calcium, filtered	mg/L	245	--	142	--	290	--	112	--	132	--	64.3	--
Chloride	mg/L	5.2	--	13.3	--	25.3	--	25	--	8.6	--	7.51	--
Chromium	mg/L	0.001 U	--	0.000333 J	--	0.000315 J	--	0.000592 J	--	0.000436 J	--	0.00215	--
Chromium, filtered	mg/L	0.001 U	--	0.000248 J	--	0.000218 J	--	0.001 U	--	0.001 U	--	0.00139	--
Fluoride	mg/L	0.211	--	0.341	--	0.347	--	0.152	--	1.12	--	0.989	--
Lead	mg/L	0.0002 U	--	0.0002 U	--	0.000074 J	--	0.000416	--	0.0002 U	--	0.0002 U	--
Lead, filtered	mg/L	0.000114 J	--	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.0002 U	--
Mercury	mg/L	0.0005 U	--	0.0005 U	--	0.0005 U	--	0.0005 U	--	0.0005 U	--	0.0005 U	--
Radium 226 + radium 228	pCi/L	0.479 U	--	0.804 U	--	1.04 U	--	0.850 U	--	0.502 U	--	0.620 U	--
Selenium	mg/L	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--
Selenium, filtered	mg/L	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--	0.001 U	--
Sulfate	mg/L	1570	--	352	--	749	--	240	--	1560	--	845	--
Thallium	mg/L	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.0002 U	--
Thallium, filtered	mg/L	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.0002 U	--	0.0002 U	--
Aluminum	mg/L	0.0115	--	0.008 J	--	0.0503	--	0.21	--	0.010 U	--	0.0122	--

Table 2
Initial Groundwater Characterization Results

Parameter	Unit	MR-AP-MW-2		MR-AP-MW-3D		MR-AP-MW-4V		MR-AP-MW-6V		MR-AP-MW-10		MR-AP-MW-12	
		9/26/2022	10/3/2022	9/19/2022	10/3/2022	9/26/2022	10/3/2022	9/26/2022	10/3/2022	9/26/2022	10/3/2022	9/26/2022	10/3/2022
Aluminum, filtered	mg/L	0.0121	--	0.010 U	--	0.010 U	--	0.010 U	--	0.010 U	--	0.010 U	--
Alkalinity	mg CaCO ₃ /L	4.70	--	205	--	90.7	--	199	--	146	--	307	--
Bicarbonate alkalinity	mg CaCO ₃ /L	4.70	--	205	--	90.5	--	196	--	146	--	307	--
Carbonate alkalinity	mg CaCO ₃ /L	0.00014	--	0.5 U	--	0.219	--	3.06	--	0.433	--	0.417	--
Magnesium	mg/L	136	--	30.3	--	51.2	--	27.4	--	95.1	--	51.1	--
Magnesium, filtered	mg/L	153	--	29.7	--	38.5	--	27.3	--	68.9	--	40.9	--
Nitrate nitrite as N	mg/L as N	0.388	--	0.3 U	--	0.3 U	--	0.233 J	--	0.3 U	--	0.22 J	--
Potassium total	mg/L	4.35	--	5.55	--	8.55	--	2.41	--	11.3	--	10.7	--
Potassium total, filtered	mg/L	4.26	--	5.35	--	8.75	--	2.04	--	11.0	--	10.3	--
Silica	mg/L	19.9	--	12.4	--	9.67	--	17.2	--	15.1	--	14.1	--
Silica, filtered	mg/L	20.6	--	12.0	--	9.37	--	16.8	--	15.0	--	14.0	--
Silicon	mg/L	9.32	--	5.78	--	4.52	--	8.03	--	7.04	--	6.59	--
Silicon, filtered	mg/L	9.62	--	5.61	--	4.38	--	7.87	--	7.02	--	6.53	--
Sodium	mg/L	120	--	91.0	--	76	--	74.4	--	771	--	499	--
Sodium, filtered	mg/L	129	--	89.7	--	65.6	--	77.6	--	525	--	394	--
Sulfide	mg/L	0	--	0	--	0	--	0	--	0	--	0	--
TDS	mg/L	2350	--	756	--	1150	--	576	--	2550	--	1560	--
Total organic carbon	mg/L	2.08	--	2.08	--	1.53 J	--	1.49 J	--	1.52 J	--	2.85	--
Temperature	°C	18.7	--	19.2	--	19.8	--	19.3	--	18.6	--	21.9	--
Turbidity	NTU	1.84	--	7.96	--	4.9	--	7.58	--	4.12	--	1.96	--

Notes:

Samples were field filtered with a 0.45-micron filter at the time of collection a filtered again prior to analysis for dissolved constituents.

Samples were collected in the field on September 19 and 26, 2022, then sent directly to the analytical laboratories (APC Environmental Laboratory and Pace Analytical Services, LLC) and to the EGL for supplemental testing. EGL submitted subsamples to ALS Environmental for additional initial characterization on October 3, 2022 (Sample Delivery Group No. K2211425).

--: not measured

µg/L: microgram per liter

µS/cm: microsiemen per centimeter

EGL: Anchor QEA Environmental Geochemistry Laboratory

J: indicates the result is an estimated value

mg/L: milligram per liter

mV: millivolt

NTU: nephelometric turbidity unit

pCi/L: picocurie per liter

SU: standard unit

TDS: total dissolved solids

U: indicates the compound was analyzed for but not detected (Value is set to practical quantitation limit.)

Table 3
Treatments Tested in Screening Batch Tests

Treatment	Notes
Aeration	No reagents; bottles passively aerated during the batch test
FS	--
FC	--
FC (pH 5)	Adjusted to pH 5 by adding a small volume of NaOH
FB-Fe+	The dose was specified by the vendor (Redox Solutions).
PM	--
Fe-Mn-Cl-SO ₄ LDH	--
Fe-Mn-Cl-SO ₄ LDH (pH 9.5)	Adjusted to pH 9.5 by adding a small volume of NaOH
Fe-Mn-Cl LDH	--
Fe-Mn-Cl LDH (pH 9.5)	Adjusted to pH 9.5 by adding a small volume of NaOH
BaCl ₂	--
HT-4U	--
Mg-Al-Cl LDH (pH 9.5)	Adjusted to pH 9.5 by adding a small volume of NaOH
Fe-Mn-Mg-Al-Cl LDH (pH 9.5)	Adjusted to pH 9.5 by adding a small volume of NaOH

Notes:

--: not applicable

BaCl₂: barium chloride

FB-Fe+: Ferroblick-Fe+

FC: ferric chloride

Fe-Mn-Cl LDH: ferric chloride with manganese chloride, followed by potassium permanganate

Fe-Mn-Cl-SO₄ LDH: ferrous sulfate with manganese chloride, followed by potassium permanganate

Fe-Mn-Mg-Al-Cl LDH (pH 9.5): ferric chloride with manganese chloride and magnesium chloride, followed by sodium aluminate and potassium permanganate

FS: ferrous sulfate

g: gram

g/L: gram per liter

HT-4U: granular hydrotalcite

LDH: layered double hydroxide

mg: milligram

Mg-Al-Cl LDH (pH 9.5): magnesium chloride, followed by sodium aluminate

mM: millimolar

NaOH: sodium hydroxide

PM: potassium permanganate

Table 4
Screening Batch Test Results

Groundwater ID	Treatment	Dissolved Concentration (µg/L)						pH	ORP (millivolt)	SC (µS/cm)	SDG
		Arsenic (GWPS: 10)	Cobalt (GWPS: 6)	Lithium (GWPS: 40)	Molybdenum (GWPS: 100)	Iron	Manganese				
MR-AP-MW-2	Control	--	57.0	193	--	162000	3560	6.63	535	2661	K2215301
	Aeration	--	56.8	192	--	165000	3630	6.04	349	2577	K2215301
	FS	--	57.3	193	--	371000	4090	4.5	415	3334	K2215301
	FS (Dup)	--	57.8	200	--	358000	4090	4.32	330	4579	K2215301
	FC	--	56.7	201	--	341000	3470	2.65	317	4526	K2215301
	FC (pH 5)	--	55.2	195	--	173000	3560	3.69	307	4053	K2215301
	FB-Fe+	--	1.94	164	--	18900	2800	4.49	290	10920	K2215301
	PM	--	20.7	199	--	3180	68600	2.99	975	3630	K2215301
	Fe-Mn-Cl-SO ₄ LDH	--	57.2	186	--	193000	99600	2.58	970	5646	K2215301
	Fe-Mn-Cl-SO ₄ LDH (pH 9.5)	--	0.018 U	178	--	23.9	10.1	5.55	779	6316	K2215301
	Fe-Mn-Cl LDH	--	31.0	189	--	69900	97600	2.16	996	11911	K2215301
	Fe-Mn-Cl LDH (pH 9.5)	--	0.018 U	174	--	13.0	7.00	6.39	746	7213	K2215301
	BaCl ₂	--	55.7	192	--	179000	3550	5.28	727	2954	K2215301
	HT-4U	--	0.065	33.7	--	21.4	159	7.28	553	2026	K2215301
	Mg-Al-Cl LDH (pH 9.5)	--	0.065	120	--	11.8	176	6.89	539	7570	K2215301
Fe-Mn-Mg-Al-Cl LDH (pH 9.5)	--	0.018 U	16.3	--	19.3	19.2	6.84	532	11409	K2215301	
MR-AP-MW-3D	Control	102	--	91.9	--	1.3 J	1330	7.17	563	1285	K2215304
	Aeration	98	--	94.1	--	0.80 J	359	7.18	458	10564	K2215304
	FS	0.2 U	--	100	--	94300	1830	5.8	464	1726	K2215304
	FS (Dup)	0.2 U	--	95.0	--	101000	1870	5.73	451	1569	K2215304
	FC	0.3 J	--	92.5	--	47000	1350	2.74	560	3223	K2215304
	FC (pH 5)	0.2 U	--	89.0	--	98.2	1280	4.1	525	2304	K2215304
	FB-Fe+	2.3	--	43.4	--	16.6	1.0 J	5.52	381	10169	K2215304
	PM	16.7	--	104	--	0.6 U	104000	6.22	658	1840	K2215304
	Fe-Mn-Cl-SO ₄ LDH	0.2 U	--	84.7	--	57800	788	2.5	957	6005	K2215304
	Fe-Mn-Cl-SO ₄ LDH (pH 9.5)	0.2 U	--	62.6	--	8.8	521	6.75	502	5203	K2215304
	Fe-Mn-Cl LDH	0.2 U	--	89.0	--	9520	1030	2.19	966	11100	K2215304
	Fe-Mn-Cl LDH (pH 9.5)	0.3 J	--	14.1	--	9.50	82.5	6.96	607	5891	K2215304
	BaCl ₂	90.7	--	91.6	--	2.8 J	1290	6.66	542	6081	K2215304
	HT-4U	0.8 J	--	11.9	--	1.7 J	3.00	7.14	476	1522	K2215304
	Mg-Al-Cl LDH (pH 9.5)	0.6 J	--	35.7	--	3.9 J	18.7	6.74	511	1086	K2215304
Fe-Mn-Mg-Al-Cl LDH (pH 9.5)	0.2 U	--	1.11	--	2.0 J	0.90 J	6.81	510	6565	K2215304	
MR-AP-MW-4V	Control	--	56.0	145	--	1.9 J	2610	6.73	415	1726	K2300222
	Aeration	--	59.8	143	--	1.0 J	2610	6.71	427	1739	K2300222
	FS	--	56.0	141	--	172000	3120	6.43	242	2031	K2300222
	FS (Dup)	--	56.8	138	--	175000	3110	6.27	428	2057	K2300222
	FC	--	55.6	147	--	10400	2620	3.04	609	3746	K2300222
	FC (pH 5)	--	51.6	139	--	13.3	2410	4.22	504	2952	K2300222
	FB-Fe+	--	1.01	78.5	--	141	3.75	8.53	193	10192	K2300222
	PM	--	0.015 J	139	--	2.70	77300	9.03	601	2149	K2300222
	Fe-Mn-Cl-SO ₄ LDH	--	53.2	136	--	78000	689	3.11	946	6621	K2300222
	Fe-Mn-Cl-SO ₄ LDH (pH 9.5)	--	0.045	119	--	47.4	1780	5.07	745	5061	K2300222
	Fe-Mn-Cl LDH	--	7.79	135	--	13400	762	2.34	959	11517	K2300222
	Fe-Mn-Cl LDH (pH 9.5)	--	0.035	59.2	--	24.5	2330	4.15	718	6093	K2300222
	BaCl ₂	--	53.8	143	--	121	2560	5.5	550	2534	K2300222
	HT-4U	--	0.05	18.8	--	14.0	4.83	6.43	466	1092	K2300222
	Mg-Al-Cl LDH (pH 9.5)	--	0.122	27.4	--	5.30	362	6.07	508	6349	K2300222
Fe-Mn-Mg-Al-Cl LDH (pH 9.5)	--	0.0024	1.59	--	34.0	68.5	5.58	503	10245	K2300222	

Table 4
Screening Batch Test Results

Groundwater ID	Treatment	Dissolved Concentration (µg/L)						pH	ORP (millivolt)	SC (µS/cm)	SDG
		Arsenic (GWPS: 10)	Cobalt (GWPS: 6)	Lithium (GWPS: 40)	Molybdenum (GWPS: 100)	Iron	Manganese				
MR-AP-MW-6V	Control	106	--	94.9	--	1.0 J	500	7.31	347	1037	K2300221
	Aeration	103	--	92.8	--	1.2 J	150	7.33	423	1004	K2300221
	FS	0.17	--	96.5	--	116000	1180	6.57	349	1612	K2300221
	FS (Dup)	0.45 J	--	94	--	114000	1150	6.23	480	1812	K2300221
	FC	0.44 J	--	95.6	--	51900	634	3.18	522	3290	K2300221
	FC (pH 5)	0.09 U	--	94.6	--	118	601	4.66	500	2257	K2300221
	FB-Fe+	2.29	--	32.8	--	68.8	2.18	4.3	128	10698	K2300221
	PM	26.8	--	91.8	--	0.30 J	76700	5.56	630	1627	K2300221
	Fe-Mn-Cl-SO ₄ LDH	0.09 U	--	89.3	--	6840	303	2.55	979	6088	K2300221
	Fe-Mn-Cl-SO ₄ LDH (pH 9.5)	0.09 U	--	79.4	--	48.0	252	5.88	693	4814	K2300221
	Fe-Mn-Cl LDH	0.09 U	--	91.1	--	59400	780	2.25	983	11173	K2300221
	Fe-Mn-Cl LDH (pH 9.5)	0.12 J	--	38.3	--	64.2	77.4	6.14	572	6156	K2300221
	BaCl ₂	90	--	95.4	--	1.8 J	636	6.55	464	1467	K2300221
	HT-4U	0.66	--	9.04	--	26	2.46	6.96	433	645	K2300221
	Mg-Al-Cl LDH (pH 9.5)	1.19	--	20.9	--	2.10	58.5	6.71	455	5521	K2300221
Fe-Mn-Mg-Al-Cl LDH (pH 9.5)	0.09 U	--	1.27	--	19.8	5.94	6.3	446	8917	K2300221	
MR-AP-MW-10	Control	11.8	--	233	924	1.2 J	1070	7.02	337	3214	K2300218
	Aeration	12.9	--	241	908	1.0 J	1090	6.8	329	3348	K2300218
	FS	0.09 U	--	232	1.2	146000	1580	6.93	161	4063	K2300218
	FS (Dup)	0.09 U	--	227	0.48	141000	1580	6.71	-127	3818	K2300218
	FC	0.33 J	--	231	32.8	77800	1070	3.29	506	4936	K2300218
	FC (pH 5)	0.09 U	--	229	25.7	22.7	949	5.23	753	4636	K2300218
	FB-Fe+	0.82	--	165	1030	11.0	5.34	5.79	-38.7	11727	K2300218
	PM	2.7	--	225	0.55	0.3 U	778000	6.3	576	3847	K2300218
	Fe-Mn-Cl-SO ₄ LDH	0.09 U	--	224	0.09	88500	4530	2.62	825	7025	K2300218
	Fe-Mn-Cl-SO ₄ LDH (pH 9.5)	0.09 U	--	189	55.5	91.5	344	4.88	563	7786	K2300218
	Fe-Mn-Cl LDH	0.09 U	--	222	0.07 J	15700	4050	2.11	365	11099	K2300218
	Fe-Mn-Cl LDH (pH 9.5)	0.09 U	--	87.8	95.3	24.4	0.19 J	4.87	506	7383	K2300218
	BaCl ₂	11.3	--	228	853	2.50	1060	5.85	414	3509	K2300218
	HT-4U	0.17	--	39.3	691	44.7	2.88	6.45	381	2911	K2300218
	Mg-Al-Cl LDH (pH 9.5)	0.13 J	--	37.4	840	1.1 J	160	6.48	382	6786	K2300218
Fe-Mn-Mg-Al-Cl LDH (pH 9.5)	0.09 U	--	8.32	16.2	26.1	1800	6.32	549	10493	K2300218	
MR-AP-MW-12	Control	--	--	121	703	2.7	548	7.36	381	2186	K2300227
	Aeration	--	--	122	728	1.3 J	204	7.35	502	2197	K2300227
	FS	--	--	132	26.4	135000	1080	6.78	-107	2556	K2300227
	FS (Dup)	--	--	132	106	146000	1060	6.57	-123	2569	K2300227
	FC	--	--	135	8.34	32200	555	3.32	522	3459	K2300227
	FC (pH 5)	--	--	129	0.4	37.1	531	4.19	347	3518	K2300227
	FB-Fe+	--	--	89.5	859	10.7	9.40	5.58	-553	11382	K2300227
	PM	--	--	128	0.53	0.3 U	130000	7.39	623	4636	K2300227
	Fe-Mn-Cl-SO ₄ LDH	--	--	123	0.15	52600	2720	2.6	636	6168	K2300227
	Fe-Mn-Cl-SO ₄ LDH (pH 9.5)	--	--	36.5	28.5	74.7	435	5.95	560	7295	K2300227
	Fe-Mn-Cl LDH	--	--	129	0.06 J	10200	658	2.18	648	9936	K2300227
	Fe-Mn-Cl LDH (pH 9.5)	--	--	107	16.7	16.5	5.07	5.42	557	6691	K2300227
	BaCl ₂	--	--	120	696	5.10	557	6.33	520	2510	K2300227
	HT-4U	--	--	14.3	441	35.9	2.89	6.97	463	2019	K2300227
	Mg-Al-Cl LDH (pH 9.5)	--	--	23.7	625	1.5 J	56.4	6.89	452	6006	K2300227
Fe-Mn-Mg-Al-Cl LDH (pH 9.5)	--	--	3.66	28.9	25.5	1520	6.77	548	9101	K2300227	

Notes:
 Reaction time was 7 days.
 Arsenic was spiked in MR-AP-MW-3D and MR-AP-MW-6V, and cobalt was spiked in MR-AP-MW-4V groundwater samples under anaerobic conditions.
 --: not applicable
 µg/L: microgram per liter
 µS/cm: microsiemen per centimeter
 BaCl₂: barium chloride
 Dup: duplicate
 FB-Fe+: Ferroblack-Fe+
 FC: ferric chloride
 Fe-Mn-Cl LDH: ferric chloride with manganese chloride, followed by PM
 Fe-Mn-Cl-SO₄ LDH: ferrous sulfate with manganese chloride, followed by PM
 Fe-Mn-Mg-Al-Cl LDH (pH 9.5): ferric chloride with manganese chloride and magnesium chloride, followed by sodium aluminate and potassium permanganate
 FS: ferrous sulfate
 GWPS: groundwater protection standard
 HT-4U: granular hydrotalcite
 J: indicates the result is an estimated value
 LDH: layered double hydroxide
 Mg-Al-Cl LDH (pH 9.5): magnesium chloride, followed by sodium aluminate
 ORP: oxidation reduction potential
 PM: potassium permanganate
 SC: specific conductivity
 SDG: sample delivery group
 U: indicates the compound was analyzed for but not detected (Value is set to instrument detection limit.)

Table 5
Treatment Performance Summary: Screening Batch Tests

Treatment	MR-AP-MW-2		MR-AP-MW-3D ¹		MR-AP-MW-4V		MR-AP-MW-6V		MR-AP-MW-10			MR-AP-MW-12	
	Cobalt	Lithium	Arsenic	Lithium	Cobalt	Lithium	Arsenic	Lithium	Arsenic	Lithium	Molybdenum	Lithium	Molybdenum
Aeration													
FS													
FC													
FC (pH 5)													
FB-Fe+													
PM													
Fe-Mn-Cl-SO ₄ LDH													
Fe-Mn-Cl-SO ₄ LDH (pH 9.5)													
Fe-Mn-Cl LDH													
Fe-Mn-Cl LDH (pH 9.5)													
BaCl ₂													
HT-4U													
Mg-Al-Cl LDH (pH 9.5)													
Fe-Mn-Mg-Al-Cl LDH (pH 9.5)													

Notes:

1. MR-AP-MW-3D initial groundwater characterization samples were averaged from MR-AP-MW-3D and MR-AP-MW-3D-DUP.

Green cells indicate the concentration was decreased to less than the GWPS.

Yellow cells indicate the concentration was decreased by >50%, but the GWPS was not reached.

Orange cells indicate the concentration was decreased by <50%, and the GWPS was not reached.

Final lithium concentrations were compared to the batch test control samples for the corresponding groundwater.

Final arsenic and cobalt concentrations were compared to the spiked groundwater concentration when applicable.

All other results were compared to the initial groundwater characterization value.

BaCl₂: barium chloride

FB-Fe+: Ferroblood-Fe+

FC: ferric chloride

Fe-Mn-Cl LDH: ferric chloride with manganese chloride, followed by PM

Fe-Mn-Cl-SO₄ LDH: ferrous sulfate with manganese chloride, followed by PM

Fe-Mn-Mg-Al-Cl LDH (pH 9.5): ferric chloride with manganese chloride and magnesium chloride, followed by sodium aluminate and PM

FS: ferrous sulfate

GWPS: groundwater protection standard

HT-4U: granular hydrotalcite

LDH: layered double hydroxide

Mg-Al-Cl LDH: magnesium chloride, followed by sodium aluminate

PM: potassium permanganate

Table 6
Treatments Tested in Optimization Batch Tests

Treatment	Notes
Mn-Al-Cl LDH	Manganese chloride, followed by sodium aluminate and potassium permanganate
Mn-Al-Cl-CO ₃ LDH	Manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
Fe-Mn-Al-Cl-SO ₄ LDH	Ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate
Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH	Ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

Note:
 LDH: layered double hydroxide

Table 7
Optimization Batch Test Results

Groundwater ID	Treatment	Dissolved Concentration (µg/L)						pH	ORP (millivolt)	SC (µS/cm)	SDG
		Arsenic (GWPS: 10)	Cobalt (GWPS: 6)	Lithium (GWPS: 40)	Molybdenum (GWPS: 100)	Iron	Manganese				
MR-AP-MW-2	Control	--	53.9	182	--	142000	3500	3.51	309	2852	K2304316
	Mn-Al-Cl LDH	--	0.595	1.00	--	2.60	285000	6.84	451	6135	K2304316
	Mn-Al-Cl-CO ₃ LDH	--	1.26	2.21	--	14.5	351000	6.68	453	6609	K2304316
	Mn-Al-Cl-CO ₃ LDH (Dup)	--	1.28	2.57	--	2.00	348000	6.72	453	6559	K2304316
	Fe-Mn-Al-Cl-SO ₄ LDH	--	2.68	3.05	--	8.60	204000	6.81	451	5783	K2304316
	Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH	--	4.62	5.99	--	23.4	260000	6.36	454	6405	K2304316
MR-AP-MW-3D	Control	190	--	88.8	--	2.70	1080	8.15	327	1262	K2304316
	Mn-Al-Cl LDH	0.12 J	--	1.74	--	8.20	310000	7.27	316	5394	K2304316
	Mn-Al-Cl-CO ₃ LDH	0.15 J	--	3.38	--	72.4	297000	7.17	282	6260	K2304316
	Mn-Al-Cl-CO ₃ LDH (Dup)	0.22 J	--	5.00	--	32.7	293000	7.10	299	5912	K2304316
	Fe-Mn-Al-Cl-SO ₄ LDH	0.09 U	--	6.06	--	351	223000	6.44	326	5003	K2304316
	Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH	0.09 U	--	3.55	--	18.3	225000	6.85	309	5448	K2304316
MR-AP-MW-4V	Control	--	50.2	142	--	1.3 J	2570	7.80	356	1695	K2304318
	Mn-Al-Cl LDH	--	0.282	0.41	--	1.60 J	179000	6.93	356	5571	K2304318
	Mn-Al-Cl-CO ₃ LDH	--	0.538	1.92	--	1.90 J	246000	6.88	342	5963	K2304318
	Mn-Al-Cl-CO ₃ LDH (Dup)	--	0.728	2.75	--	1.20 J	255000	6.96	346	5893	K2304318
	Fe-Mn-Al-Cl-SO ₄ LDH	--	1.43	1.70	--	3.30	171000	6.77	360	5289	K2304318
	Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH	--	1.58	3.79	--	2.70	137000	6.55	352	5573	K2304318
MR-AP-MW-6V	Control	208	--	99.3	--	0.70 J	471	8.04	372	1044	K2304318
	Mn-Al-Cl LDH	0.09 U	--	0.26	--	5.20	167000	6.82	425	5213	K2304318
	Mn-Al-Cl-CO ₃ LDH	0.09 U	--	0.67	--	0.90 J	198000	6.92	411	5815	K2304318
	Mn-Al-Cl-CO ₃ LDH (Dup)	0.15 J	--	0.68	--	0.80 J	200000	6.89	418	5828	K2304318
	Fe-Mn-Al-Cl-SO ₄ LDH	0.09 U	--	0.40	--	3.20	70700	7.07	397	4912	K2304318
	Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH	0.09 U	--	1.25	--	3.40	108000	6.66	425	5428	K2304318
MR-AP-MW-10	Control	14.4	--	254	887	0.80 J	1000	7.87	384	3560	K2304319
	Mn-Al-Cl LDH	0.09 U	--	0.87	9.32	0.4 J	143000	6.91	400	7098	K2304319
	Mn-Al-Cl-CO ₃ LDH	0.09 U	--	1.58	12.5	1.0 J	230000	6.80	386	7230	K2304319
	Mn-Al-Cl-CO ₃ LDH (Dup)	0.09 U	--	2.10	11.8	0.4 J	228000	6.79	390	7309	K2304319
	Fe-Mn-Al-Cl-SO ₄ LDH	0.09 U	--	1.22	9.07	3.00	85400	6.83	402	6792	K2304319
	Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH	0.09 U	--	3.86	8.43	9.80	120000	6.58	396	7047	K2304319
MR-AP-MW-12	Control	--	--	142	674	1.30 J	527	8.04	354	2629	K2304319
	Mn-Al-Cl LDH	--	--	0.61	9.71	0.80 J	130000	7.04	377	6453	K2304319
	Mn-Al-Cl-CO ₃ LDH	--	--	1.48	12.8	1.20 J	204000	6.88	381	6779	K2304319
	Mn-Al-Cl-CO ₃ LDH (Dup)	--	--	1.38	12.3	0.50 J	197000	6.87	374	6689	K2304319
	Fe-Mn-Al-Cl-SO ₄ LDH	--	--	0.89	9.10	2.50	65500	6.89	379	6131	K2304319
	Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH	--	--	2.96	8.65	1.50 J	102000	6.63	379	6470	K2304319

Notes:
 Reaction time was 7 days.
 Arsenic was spiked in groundwater samples MR-AP-MW-3D and MR-AP-MW-6V under anaerobic conditions.
 Cobalt was spiked in the groundwater sample MR-AP-MW-4V under anaerobic conditions.
 --: not applicable
 µg/L: microgram per liter
 µS/cm: microsiemen per centimeter
 Control: untreated groundwater
 Dup: duplicate
 Fe-Mn-Al-Cl-SO₄-CO₃ LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
 Fe-Mn-Al-Cl-SO₄ LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate
 GWPS: groundwater protection standard
 J: indicates the result is an estimated value
 LDH: layered double hydroxide
 Mn-Al-Cl-CO₃ LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
 Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate
 ORP: oxidation reduction potential
 SC: specific conductivity
 SDG: sample delivery group
 U: indicates the compound was analyzed for but not detected (Value is set to instrument detection limit.)

Table 8
Treatment Performance Summary: Optimization Batch Tests

Treatment	MR-AP-MW-2		MR-AP-MW-3D ¹		MR-AP-MW-4V		MR-AP-MW-6V		MR-AP-MW-10			MR-AP-MW-12	
	Cobalt	Lithium	Arsenic	Lithium	Cobalt	Lithium	Arsenic	Lithium	Arsenic	Lithium	Molybdenum	Lithium	Molybdenum
Mn-Al-Cl LDH													
Mn-Al-Cl-CO ₃ LDH													
Fe-Mn-Al-Cl-SO ₄ LDH													
Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH													

Notes:

Green cells indicate the concentration was decreased to less than the GWPS.

1. MR-AP-MW-3D initial groundwater characterization samples were averaged from MR-AP-MW-3D and MR-AP-MW-3D-DUP.

DUP: duplicate

Fe-Mn-Al-Cl-SO₄-CO₃ LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

Fe-Mn-Al-Cl-SO₄ LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate

GWPS: groundwater protection standard

LDH: layered double hydroxide

Mn-Al-Cl-CO₃ LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate

Table 9
SSE Results

Sample	Groundwater ID	Aluminum (mg/kg)				Iron (mg/kg)				Manganese (mg/kg)				Arsenic (mg/kg)				Cobalt (mg/kg)				Lithium (mg/kg)				Molybdenum (mg/kg)			
		F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4
Mn-Al-Cl-CO ₃ LDH	MR-AP-MW-2	--	--	10.1	48213	--	--	3.01	33552	--	--	100098	124340	--	--	--	--	0.08	0.01	6.01	4.02	0.21	5.50	26.0	0.85	--	--	--	--
Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH		--	--	7.02	60195	--	--	3.77	133253	--	--	56403	138860	--	--	--	--	0.21	0.01	6.26	6.65	0.71	10.4	28.3	1.40	--	--	--	--
Mn-Al-Cl LDH		--	--	8.73	90860	--	--	0.72	31470	--	--	38517	170209	--	--	--	--	0.13	0.02	2.53	7.46	0.09	0.65	20.7	8.14	--	--	--	--
Fe-Mn-Al-Cl-SO ₄ LDH		--	--	8.97	72720	--	--	2.86	80043	--	--	37910	88137	--	--	--	--	0.32	0.02	3.29	4.39	0.48	3.36	18.8	1.55	--	--	--	--
Mn-Al-Cl-CO ₃ LDH	MR-AP-MW-10	--	--	29.8	56698	--	--	0.19 J	117	--	--	98380	180886	0.03 J	1.59	1.79	1.06 J	--	--	--	--	0.30	9.69	37.9	3.44	1.04	9.01	64.8	112
Mn-Al-Cl-CO ₃ LDH (Dup)		--	--	34.6	50302	--	--	0.29	101	--	--	73113	150115	0.03 J	1.49	1.62	1.05 J	--	--	--	--	0.30	7.82	34.1	1.91	0.97	7.72	47.0	105
Fe-Mn-Al-Cl-SO ₄ -CO ₃ LDH		--	--	9.30	51303	--	--	5.93	77105	--	--	69226	116557	0.04 J	1.43	1.24	1.35 J	--	--	--	--	0.74	11.8	30.0	0.72	0.91	9.24	28.9	118
Mn-Al-Cl LDH		--	--	10.6	49405	--	--	0.12 J	56.3	--	--	62588	69685	0.03 J	0.95	0.88	0.32 J	--	--	--	--	0.11	0.79	21.9	0.70	0.51	6.70	26.4	56.6
Fe-Mn-Al-Cl-SO ₄ LDH		--	--	8.00	43825	--	--	2.61	32686	--	--	43447	37708	0.02 J	0.67	0.47	0.73 J	--	--	--	--	0.13	1.76	15.8	0.46	0.30	5.05	10.9	54.3

Notes:

All results are reported on a dry weight basis.

No samples retained enough solid material during the F1 to F4 extractions to be analyzed for F5 residual concentrations.

--: did not measure

Dup: duplicate

F1: water soluble, dissolved and weakly sorbed (extracted by 1 M magnesium chloride to pH 7)

F2: exchangeable, strongly sorbed, e.g., on oxides (extracted by 1 M monosodium phosphate at pH 5)

F3: Reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)

F4: Oxidizable, e.g., crystalline oxides (extracted by 16 M nitric acid)

F5: Residual, e.g., recalcitrant phases in the post-treatment solids (prepared by U.S. Environmental Protection Agency Method 3050B)

Fe-Mn-Al-Cl-SO₄-CO₃ LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

Fe-Mn-Al-Cl-SO₄ LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate

J: indicates the result is an estimated value

LDH: layered double hydroxide

M: molar

mg/kg: milligram per kilogram

Mn-Al-Cl-CO₃ LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

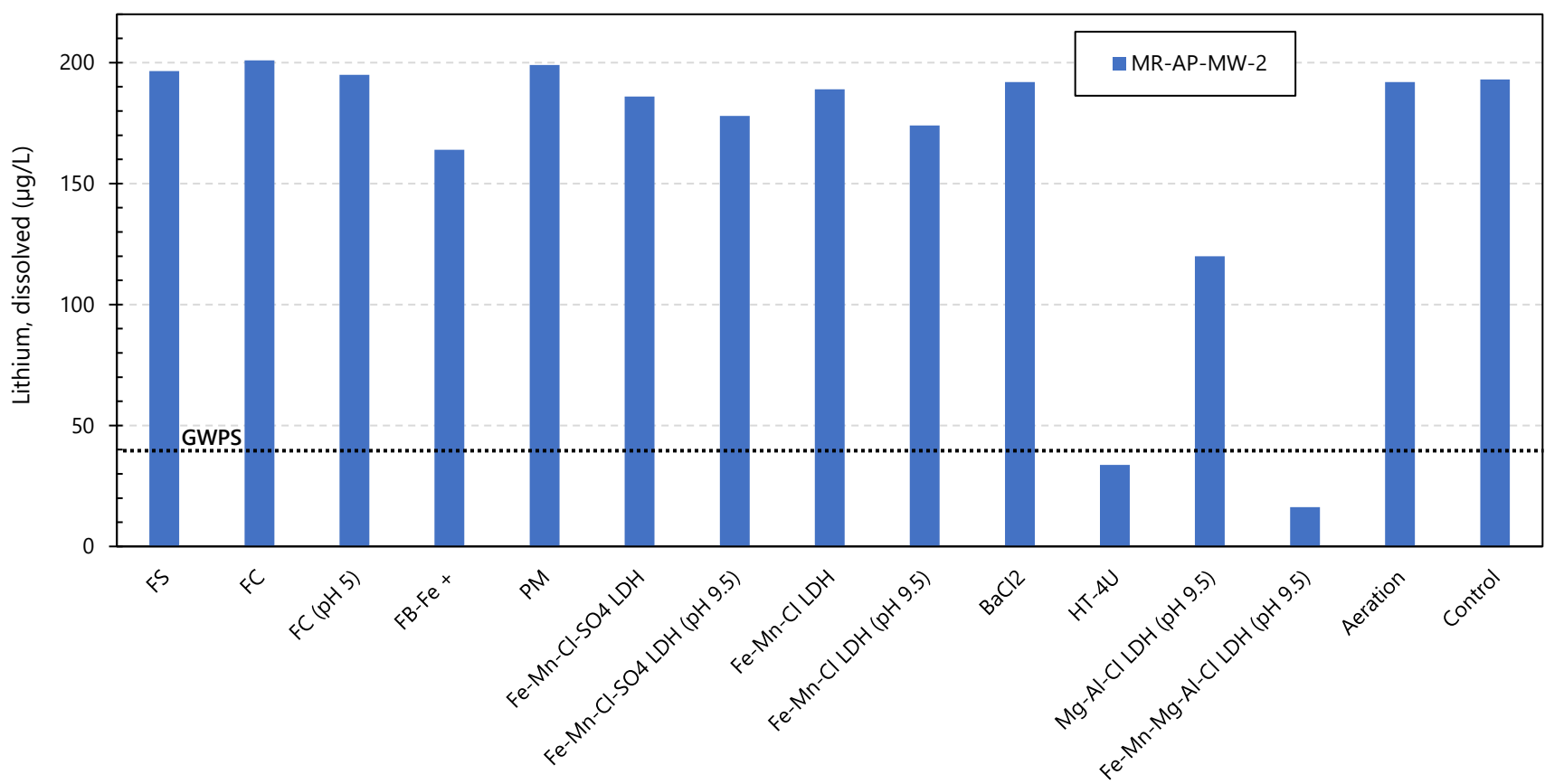
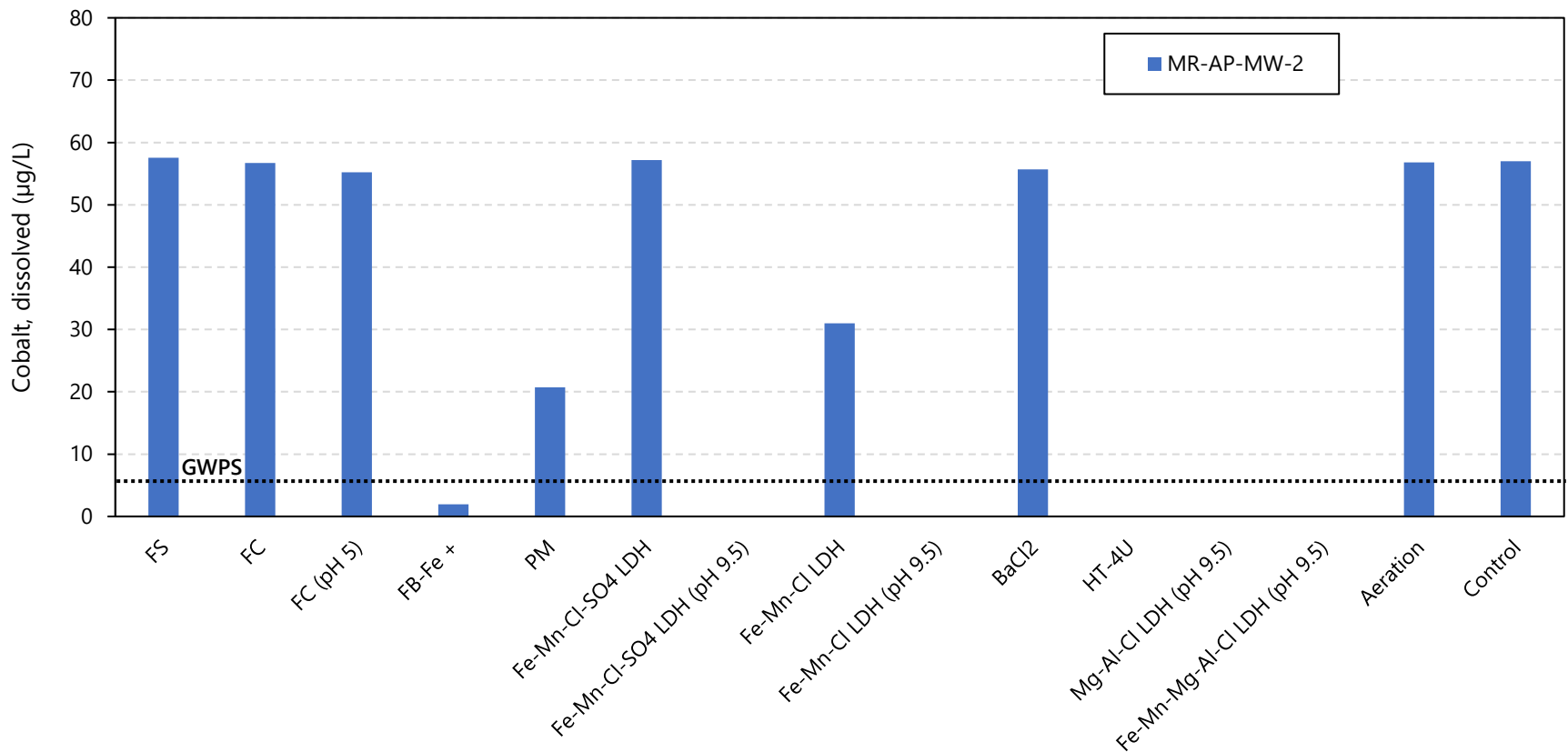
Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate

SSE: selective sequential extraction

Figures



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Notes:

All treatments shown on graph were tested as part of the screening batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

FS was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

BaCl₂: barium chloride

FB-Fe⁺: Ferroblood-Fe⁺

FC: ferric chloride

Fe-Mn-Cl LDH: ferric chloride with manganese chloride, followed by PM

Fe-Mn-Cl-SO₄ LDH: ferrous sulfate with manganese chloride, followed by PM

Fe-Mn-Mg-Al-Cl LDH: ferric chloride with manganese chloride and magnesium chloride, followed by sodium aluminate and PM

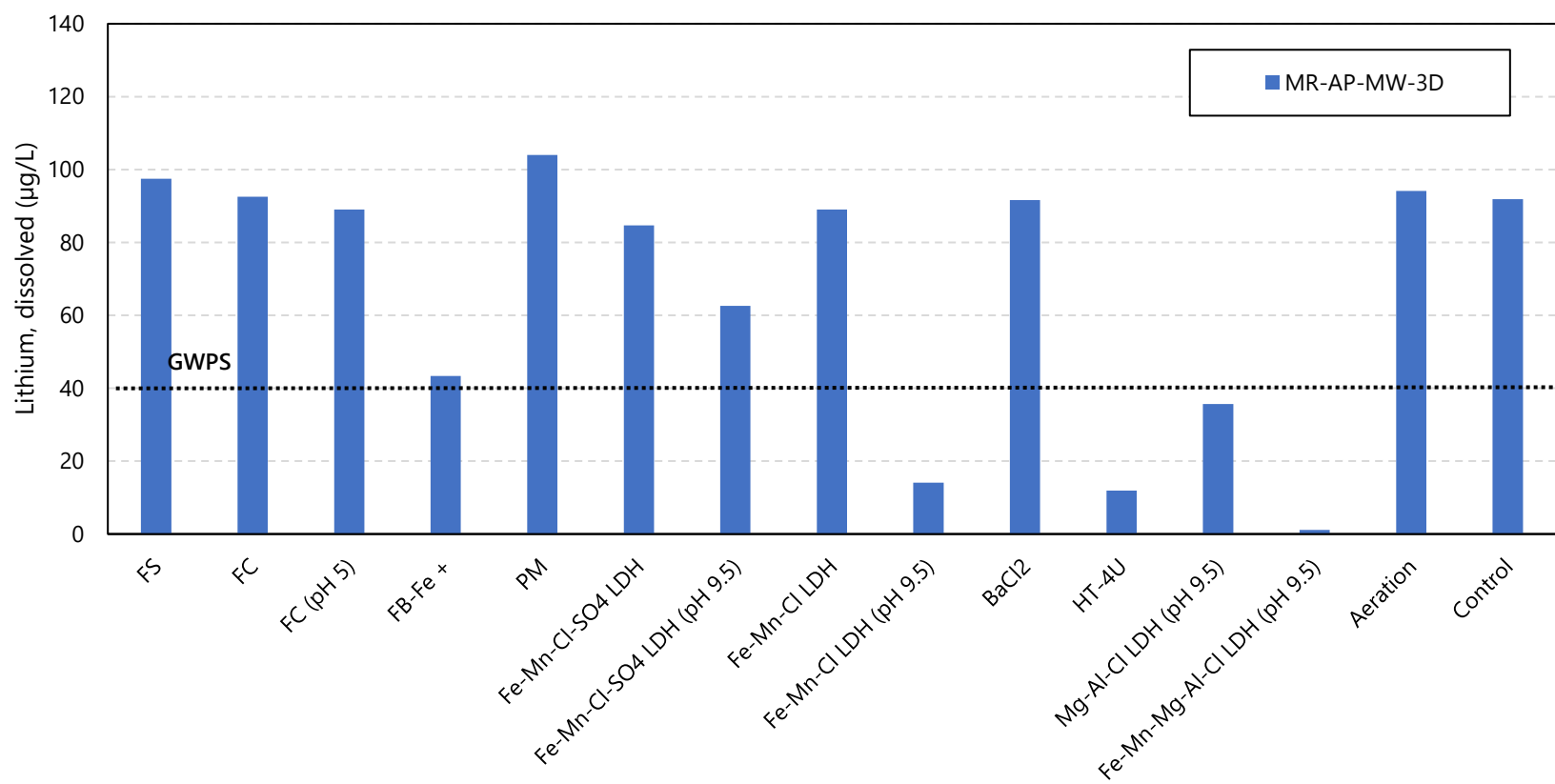
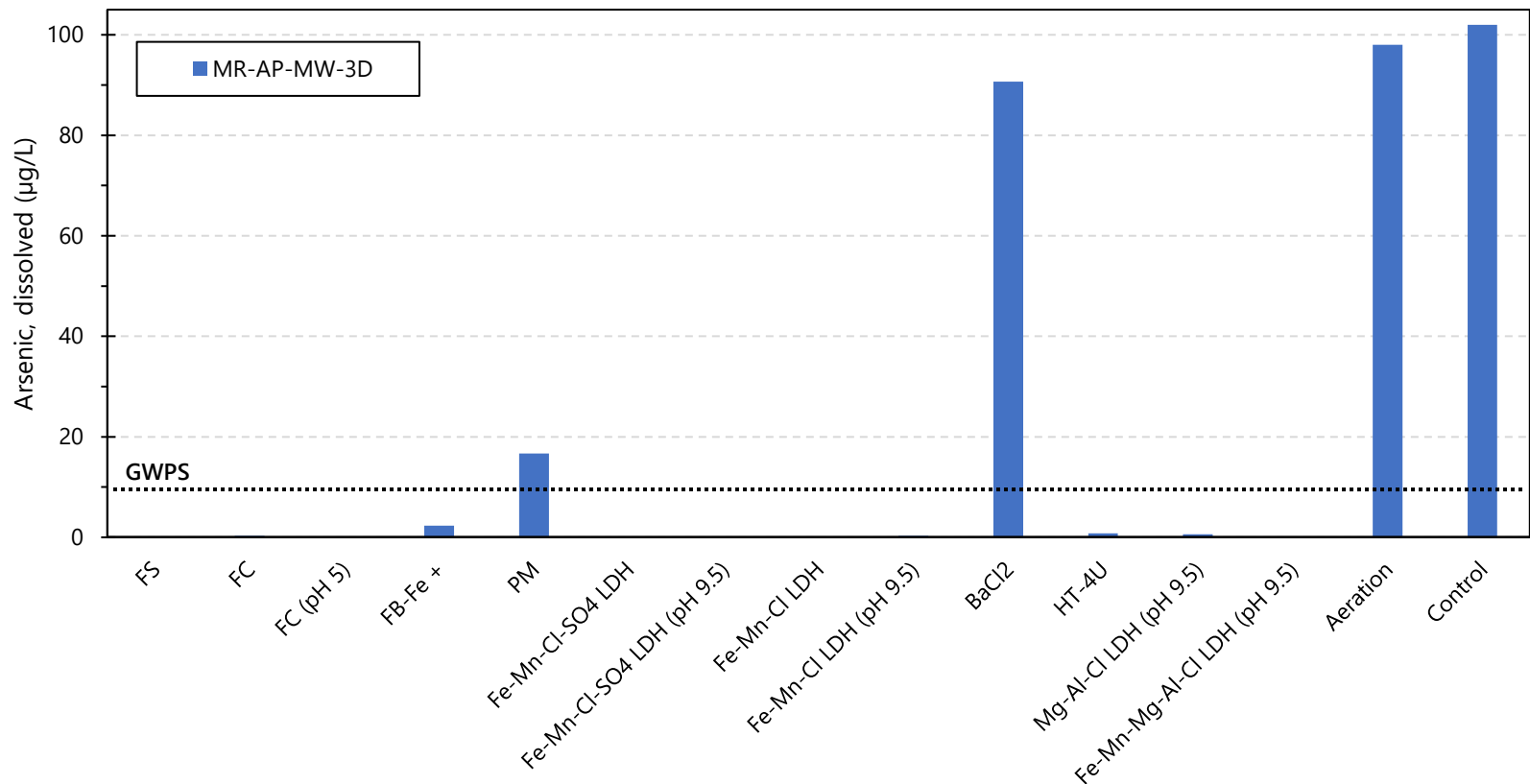
FS: ferrous sulfate

GWPS: groundwater protection standard

HT-4U: granular hydrotalcite

Mg-Al-Cl LDH: magnesium chloride, followed by sodium aluminate

PM: potassium permanganate



Notes:

All treatments shown on graph were tested as part of the screening batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

FS was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

BaCl2: barium chloride

FB-Fe+: Ferroblack-Fe+

FC: ferric chloride

Fe-Mn-Cl LDH: ferric chloride with manganese chloride, followed by PM

Fe-Mn-Cl-SO4 LDH: ferrous sulfate with manganese chloride, followed by PM

Fe-Mn-Mg-Al-Cl LDH: ferric chloride with manganese chloride and magnesium chloride, followed by sodium aluminate and PM

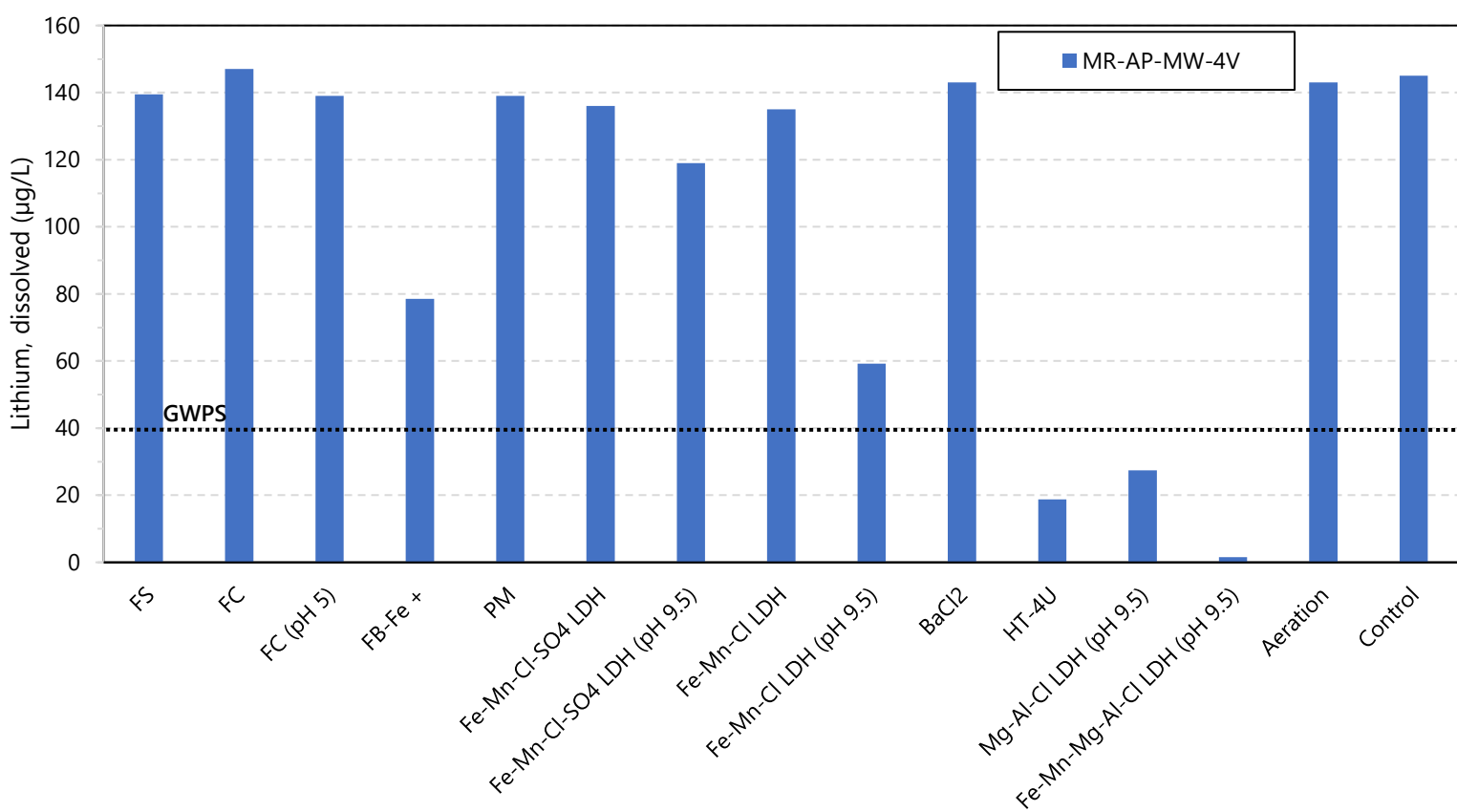
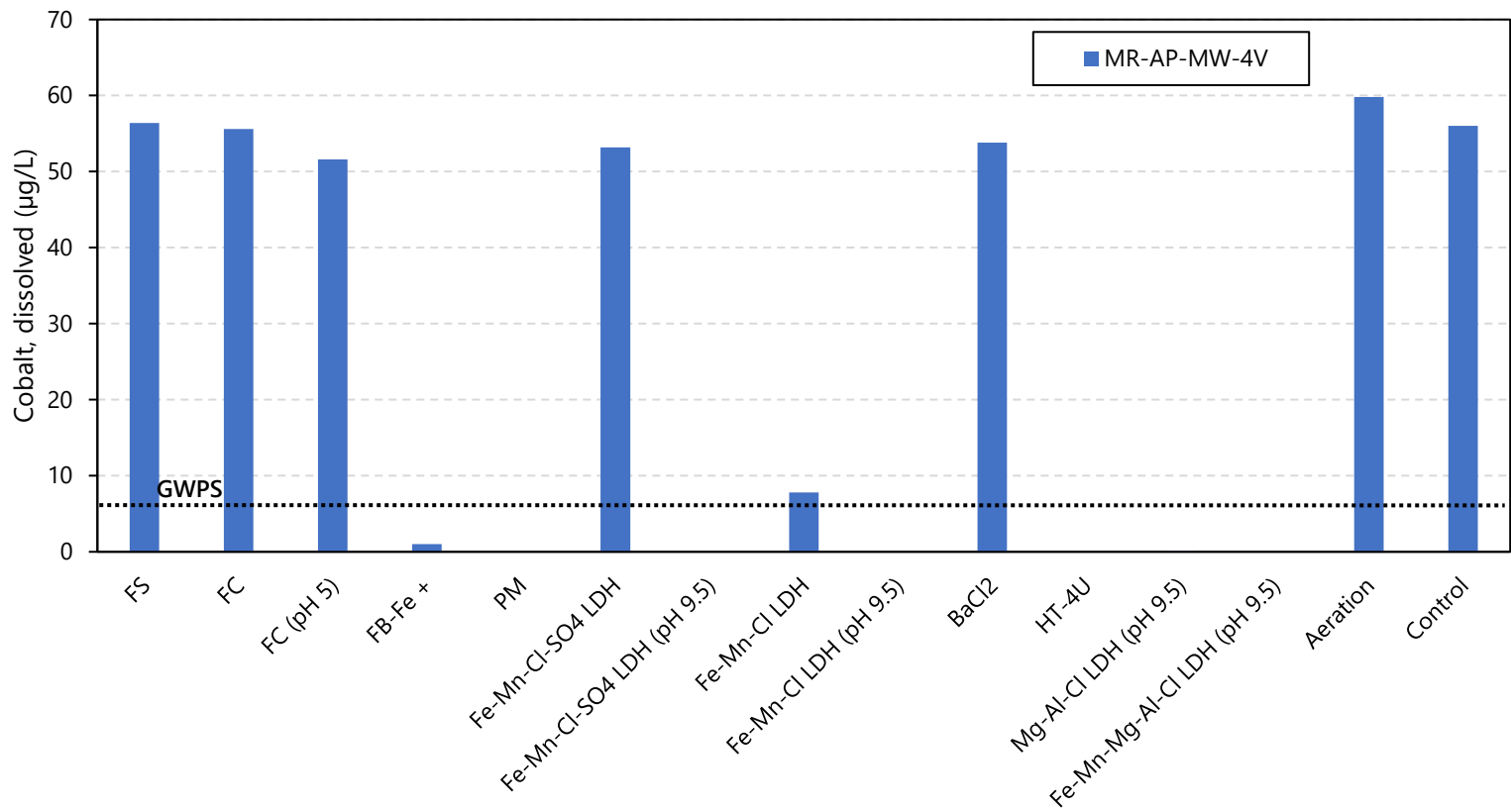
FS: ferrous sulfate

GWPS: groundwater protection standard

HT-4U: granular hydrotalcite

Mg-Al-Cl LDH: magnesium chloride, followed by sodium aluminate

PM: potassium permanganate



Notes:

All treatments shown on graph were tested as part of the screening batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

FS was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

BaCl₂: barium chloride

FB-Fe+: Ferroblack-Fe+

FC: ferric chloride

Fe-Mn-Cl LDH: ferric chloride with manganese chloride, followed by PM

Fe-Mn-Cl-SO₄ LDH: ferrous sulfate with manganese chloride, followed by PM

Fe-Mn-Mg-Al-Cl LDH: ferric chloride with manganese chloride and magnesium chloride, followed by sodium aluminate and PM

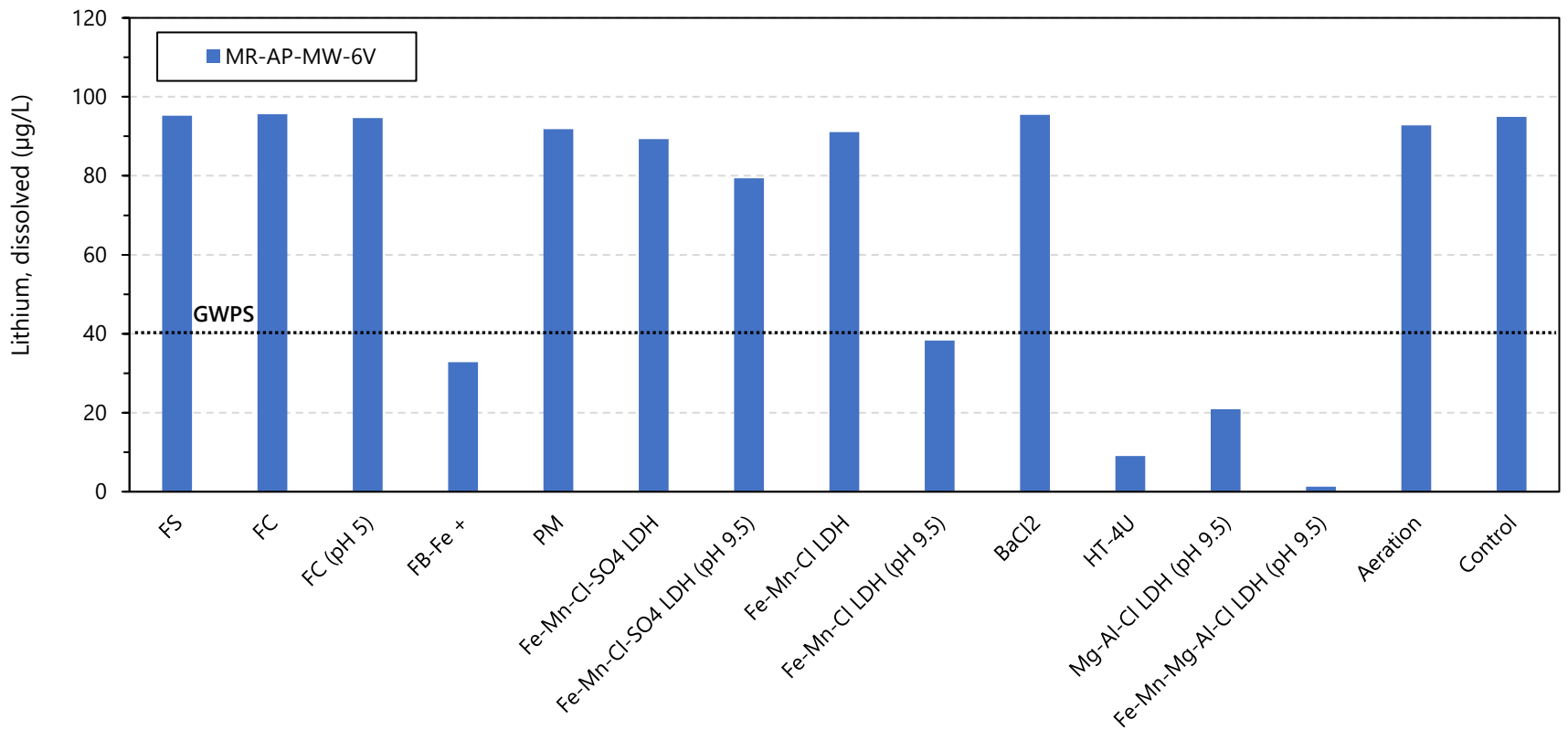
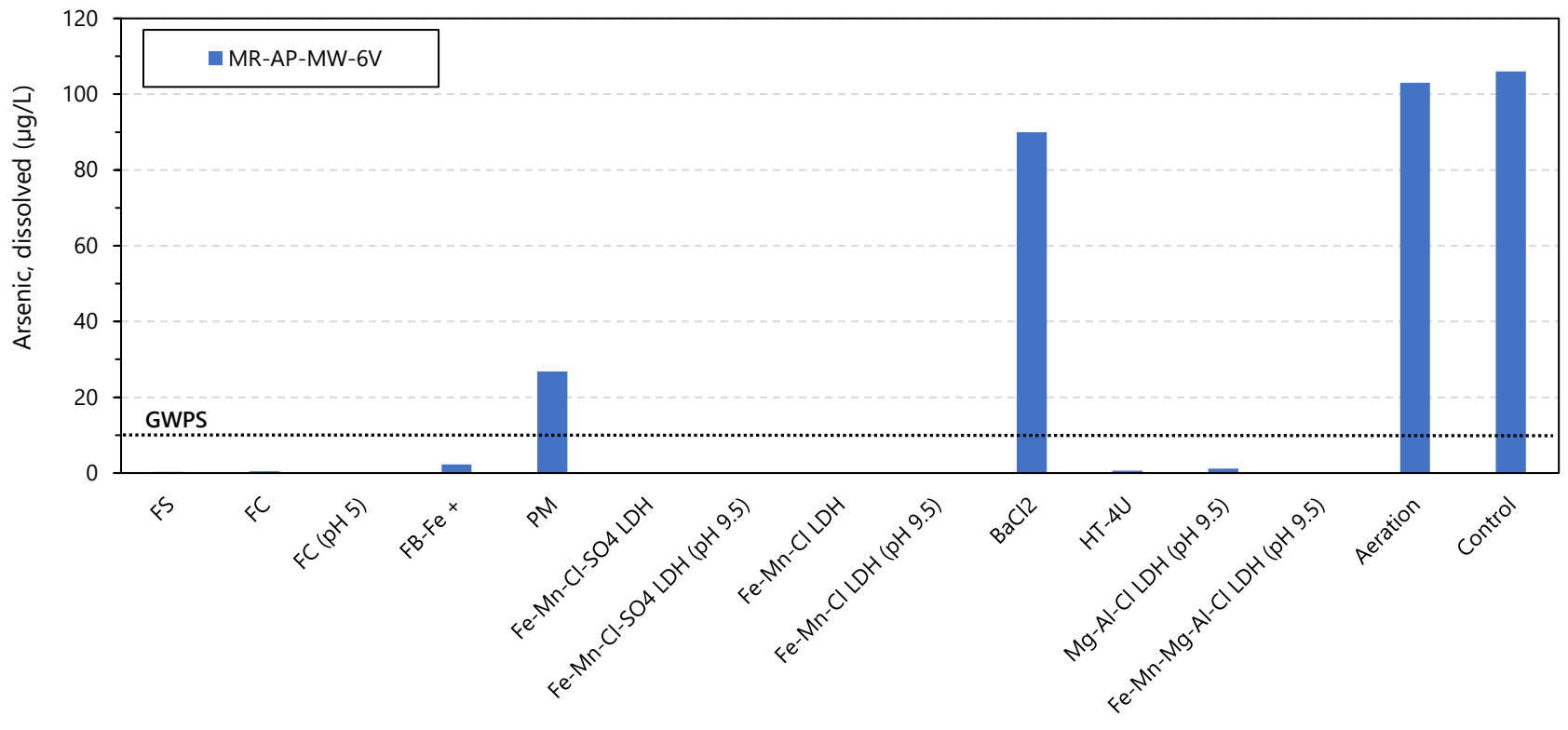
FS: ferrous sulfate

GWPS: groundwater protection standard

HT-4U: granular hydrotalcite

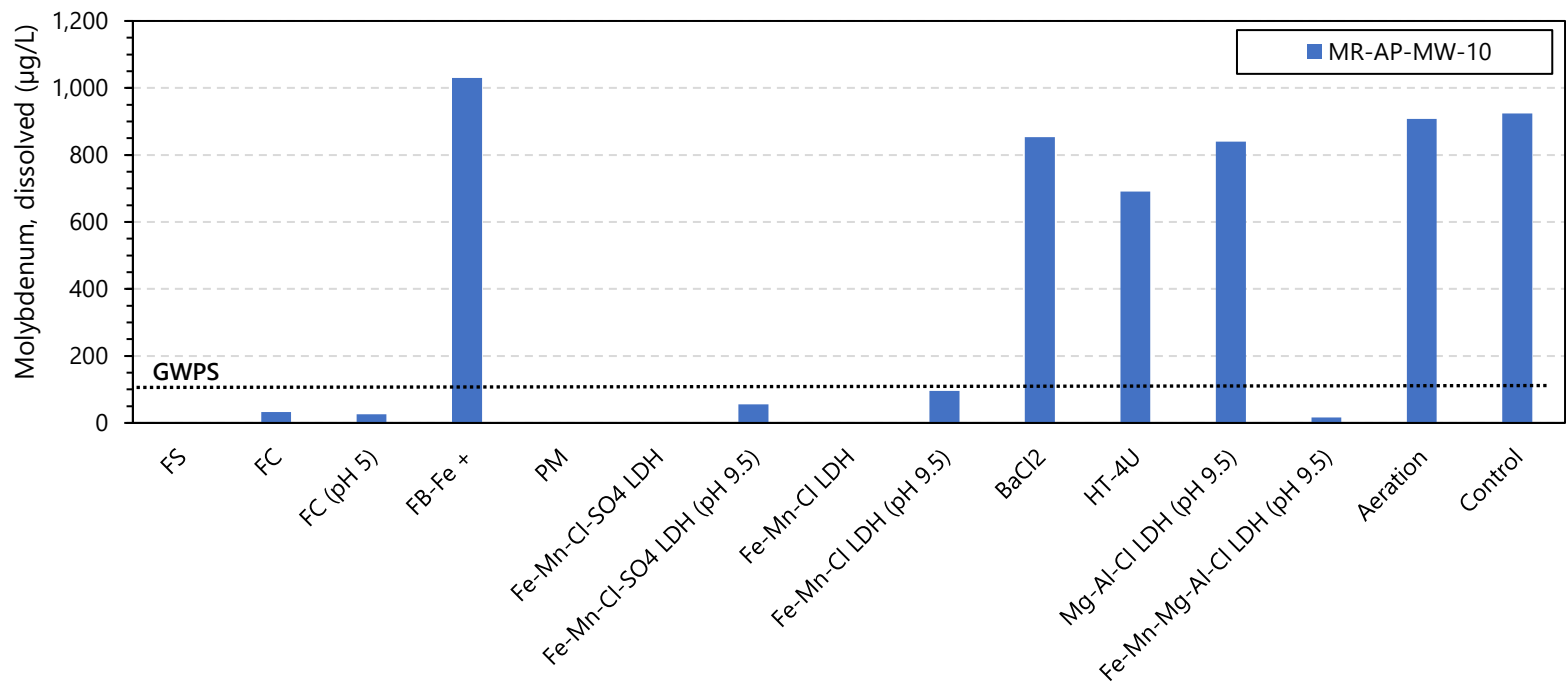
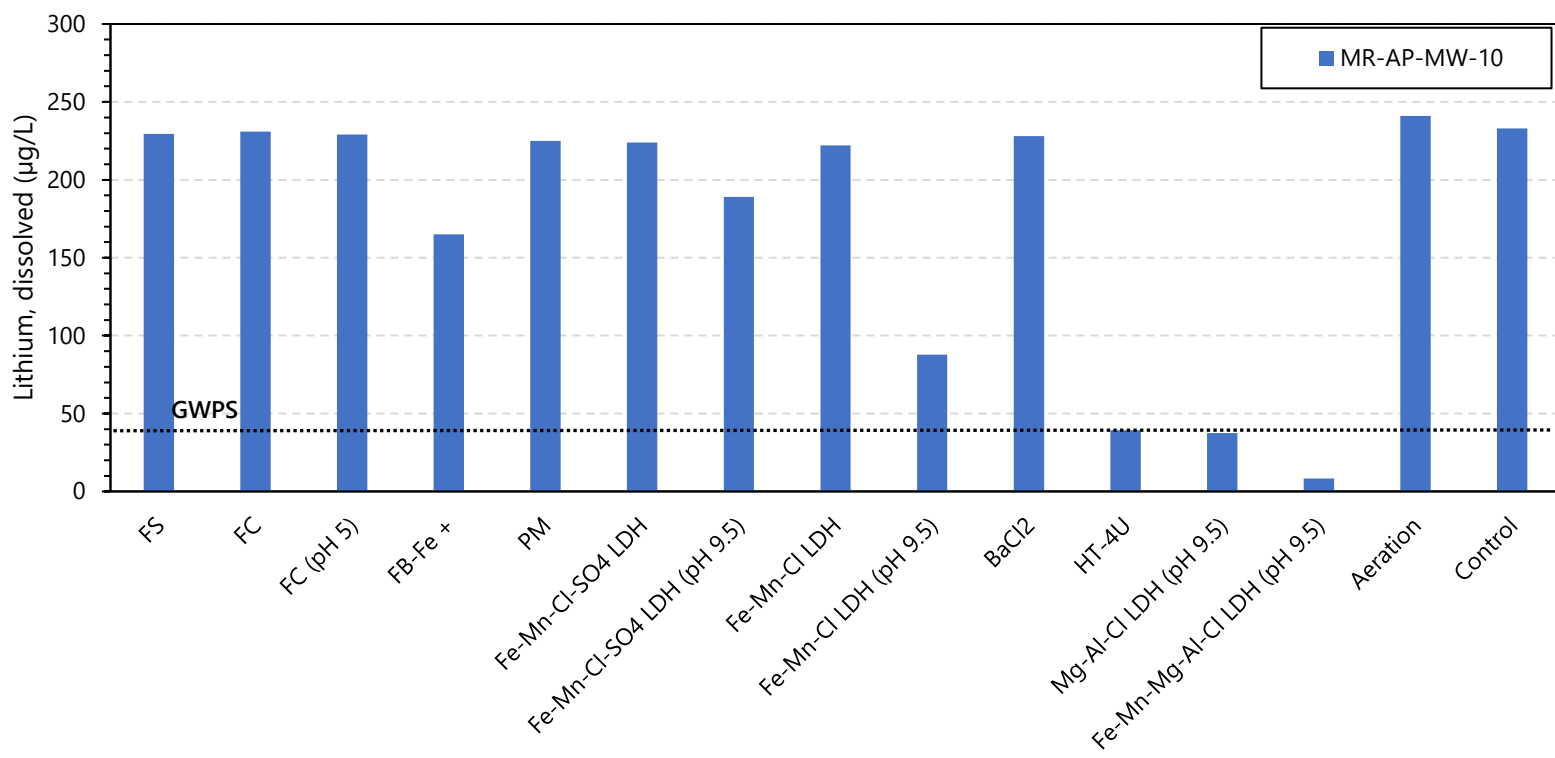
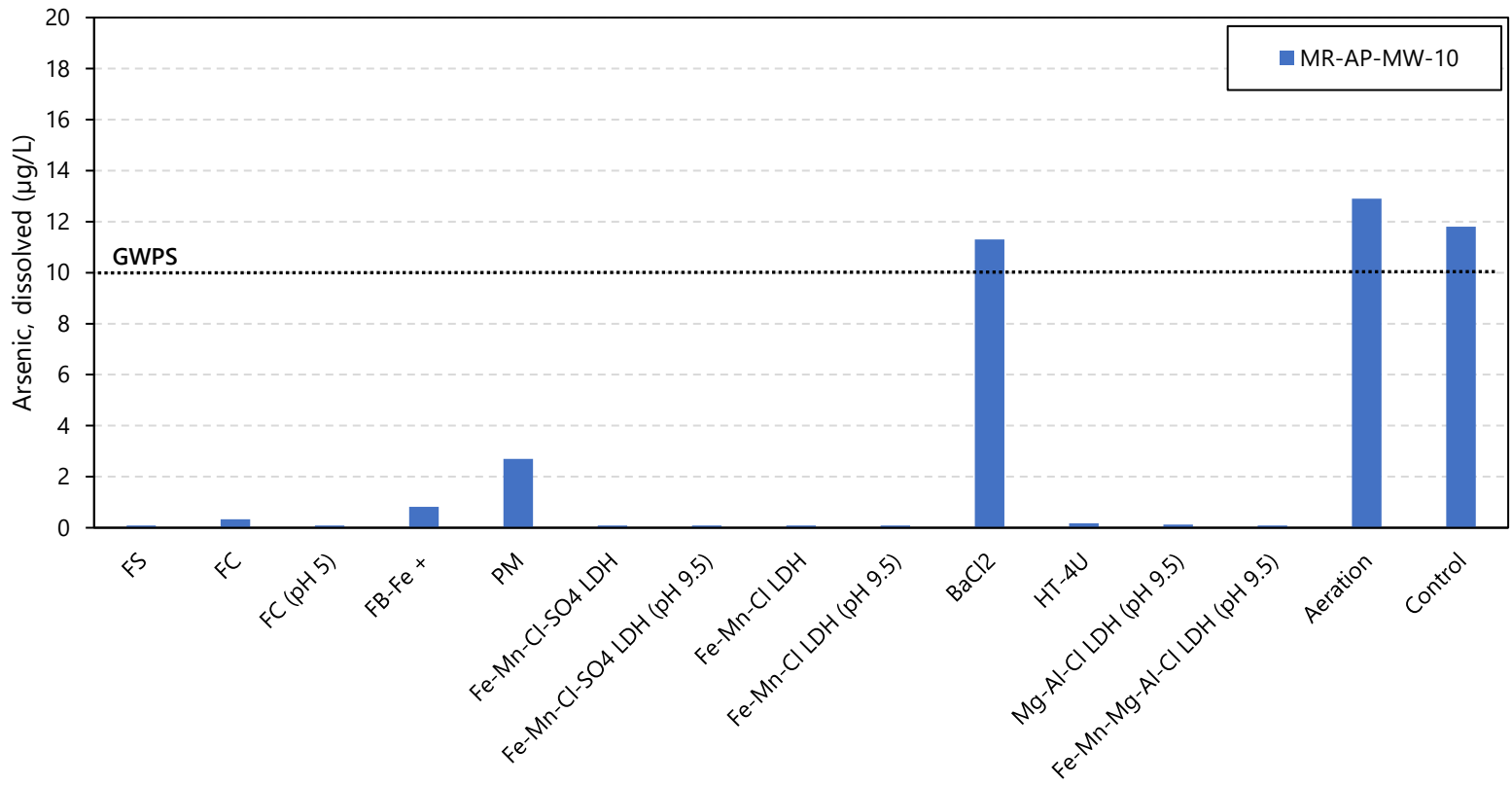
Mg-Al-Cl LDH: magnesium chloride, followed by sodium aluminate

PM: potassium permanganate



Notes:

All treatments shown on graph were tested as part of the screening batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.
 FS was tested in duplicate. The average of the two results is shown here.
 µg/L: microgram per liter
 BaCl2: barium chloride
 FB-Fe+: Ferroblood-Fe+
 FC: ferric chloride
 Fe-Mn-Cl LDH: ferric chloride with manganese chloride, followed by PM
 Fe-Mn-Cl-SO4 LDH: ferrous sulfate with manganese chloride, followed by PM
 Fe-Mn-Mg-Al-Cl LDH: ferric chloride with manganese chloride and magnesium chloride, followed by sodium aluminate and PM
 FS: ferrous sulfate
 GWPS: groundwater protection standard
 HT-4U: granular hydrotalcite
 Mg-Al-Cl LDH: magnesium chloride, followed by sodium aluminate
 PM: potassium permanganate



Notes:

All treatments shown on graph were tested as part of the screening batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

FS was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

BaCl2: barium chloride

FB-Fe+: Ferroblood-Fe+

FC: ferric chloride

Fe-Mn-Cl LDH: ferric chloride with manganese chloride, followed by PM

Fe-Mn-Cl-SO4 LDH: ferrous sulfate with manganese chloride, followed by PM

Fe-Mn-Mg-Al-Cl LDH: ferric chloride with manganese chloride and magnesium chloride, followed by sodium aluminate and PM

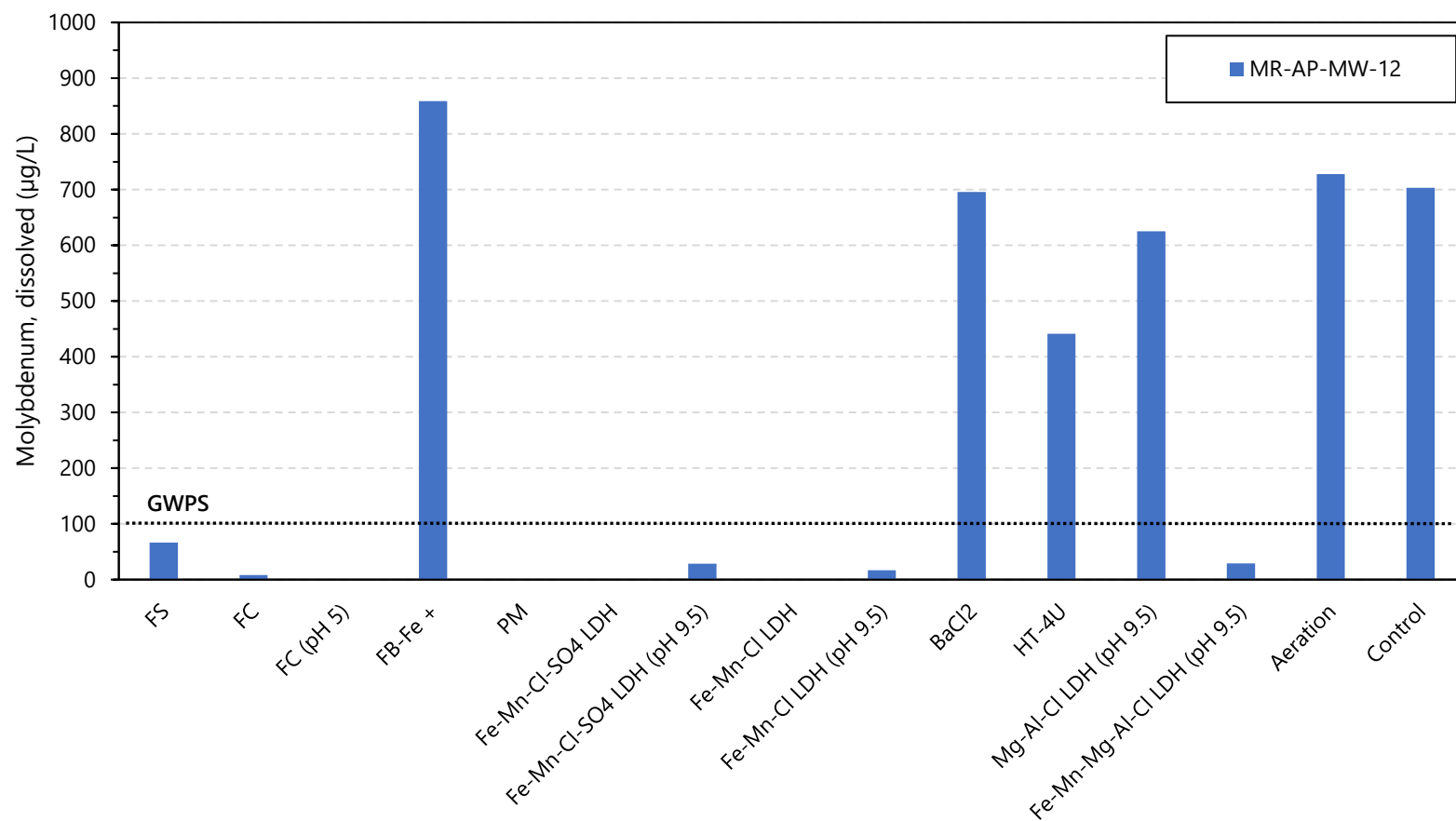
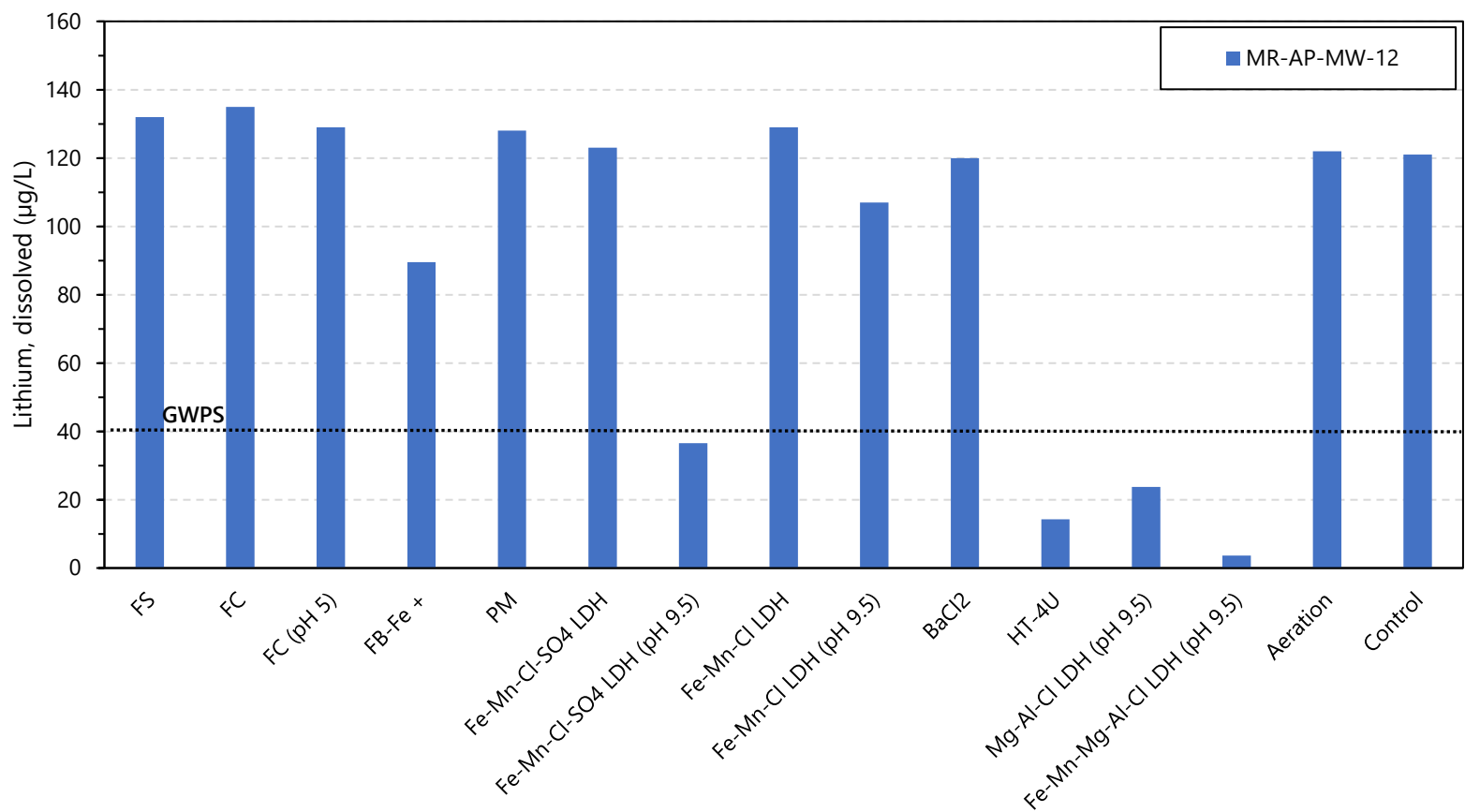
FS: ferrous sulfate

GWPS: groundwater protection standard

HT-4U: granular hydrotalcite

Mg-Al-Cl LDH: magnesium chloride, followed by sodium aluminate

PM: potassium permanganate



Notes:

All treatments shown on graph were tested as part of the screening batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

FS was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

BaCl2: barium chloride

FB-Fe+: Ferroblack-Fe+

FC: ferric chloride

Fe-Mn-Cl LDH: ferric chloride with manganese chloride, followed by PM

Fe-Mn-Cl-SO4 LDH: ferrous sulfate with manganese chloride, followed by PM

Fe-Mn-Mg-Al-Cl LDH: ferric chloride with manganese chloride and magnesium chloride, followed by sodium aluminate and PM

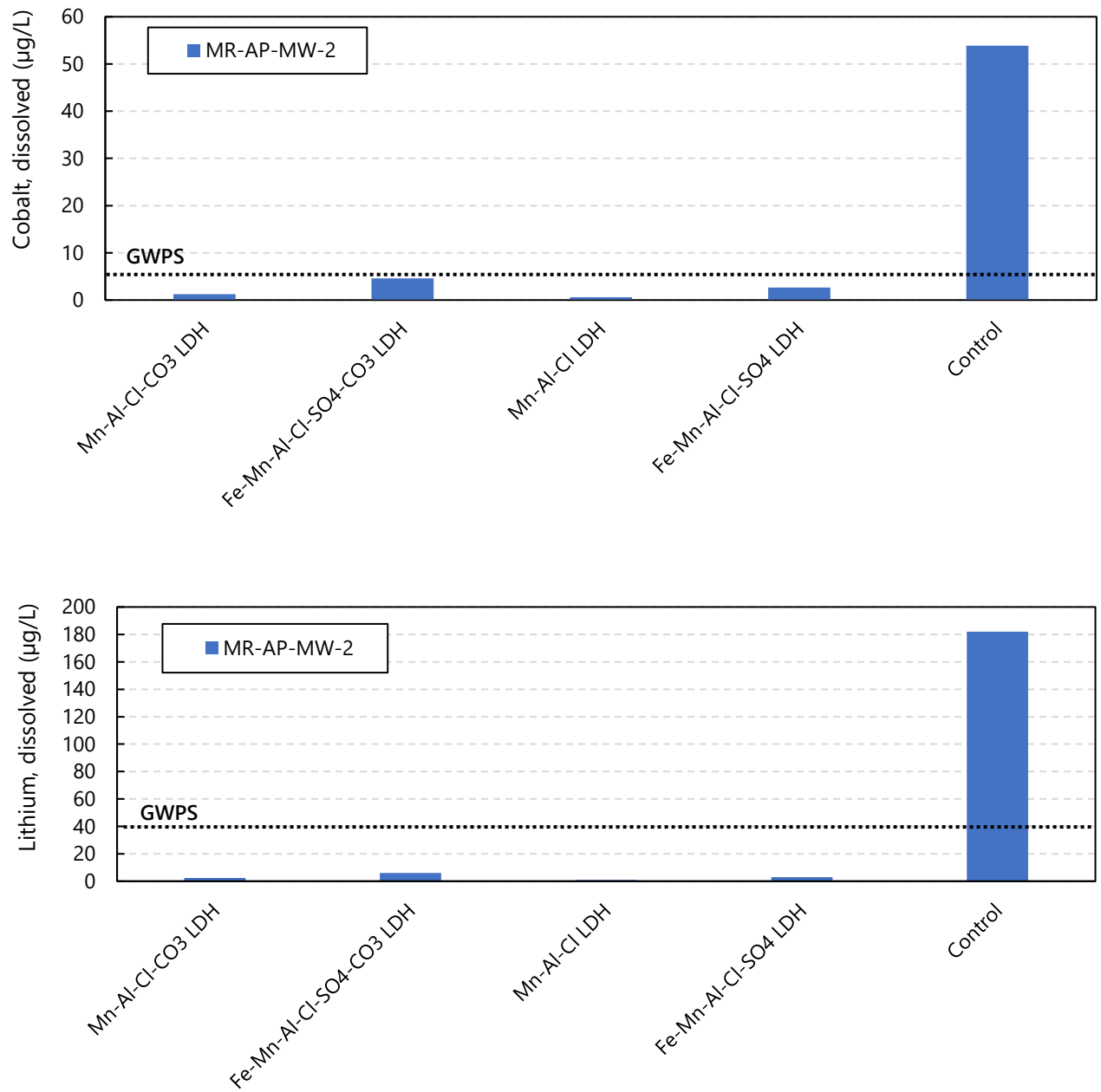
FS: ferrous sulfate

GWPS: groundwater protection standard

HT-4U: granular hydrotalcite

Mg-Al-Cl LDH: magnesium chloride, followed by sodium aluminate

PM: potassium permanganate



Notes:

All treatments shown on graph were tested as part of the screening batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

Mn-Al-Cl-CO3 LDH was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate

GWPS: groundwater protection standard

LDH: layered double hydroxide

Mn-Al-Cl-CO3 LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

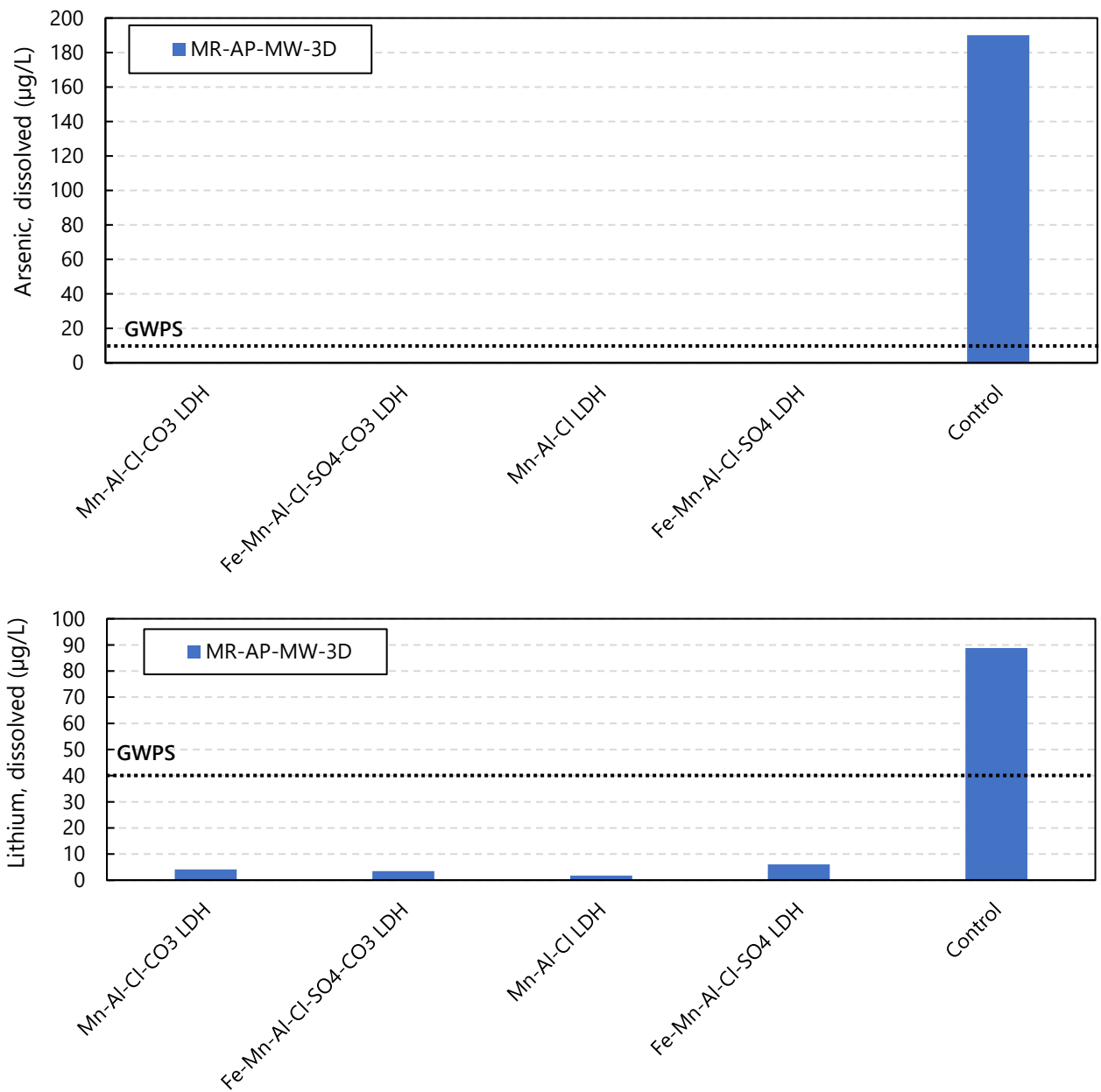
Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate

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Figure 8
Optimization Batch Test Results for MR-AP-MW-2

Laboratory Treatability Study Results
Plant Miller



Notes:

All treatments shown on graph were tested as part of the optimization batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

Mn-Al-Cl-CO₃ LDH was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

Fe-Mn-Al-Cl-SO₄-CO₃ LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

Fe-Mn-Al-Cl-SO₄ LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate

GWPS: groundwater protection standard

LDH: layered double hydroxide

Mn-Al-Cl-CO₃ LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

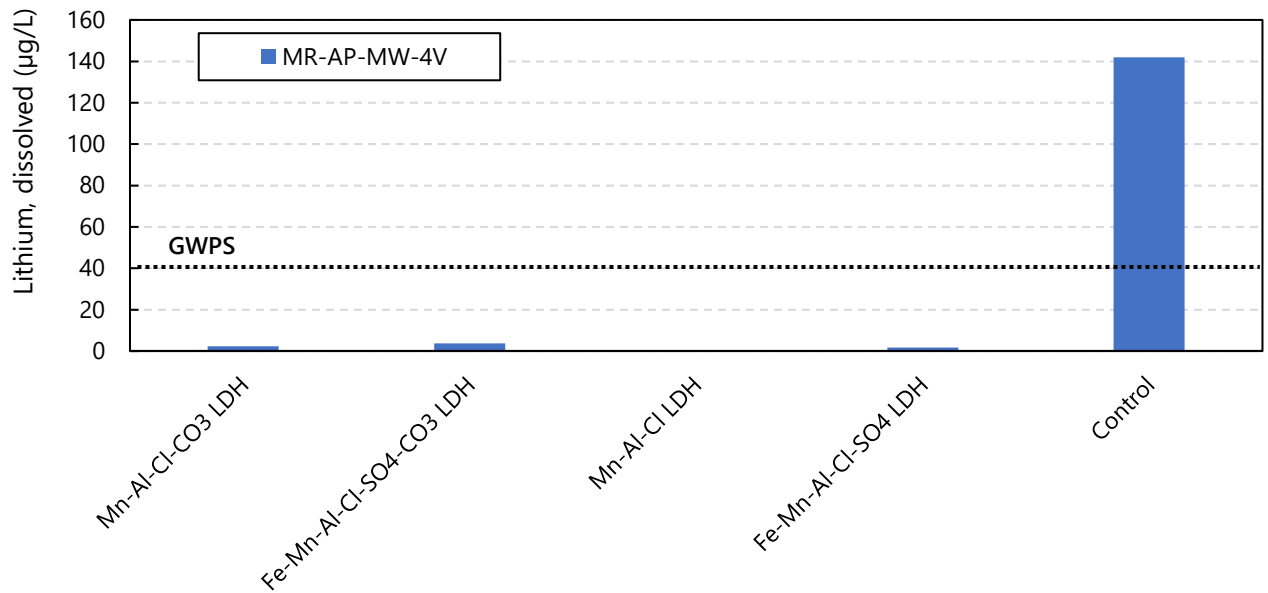
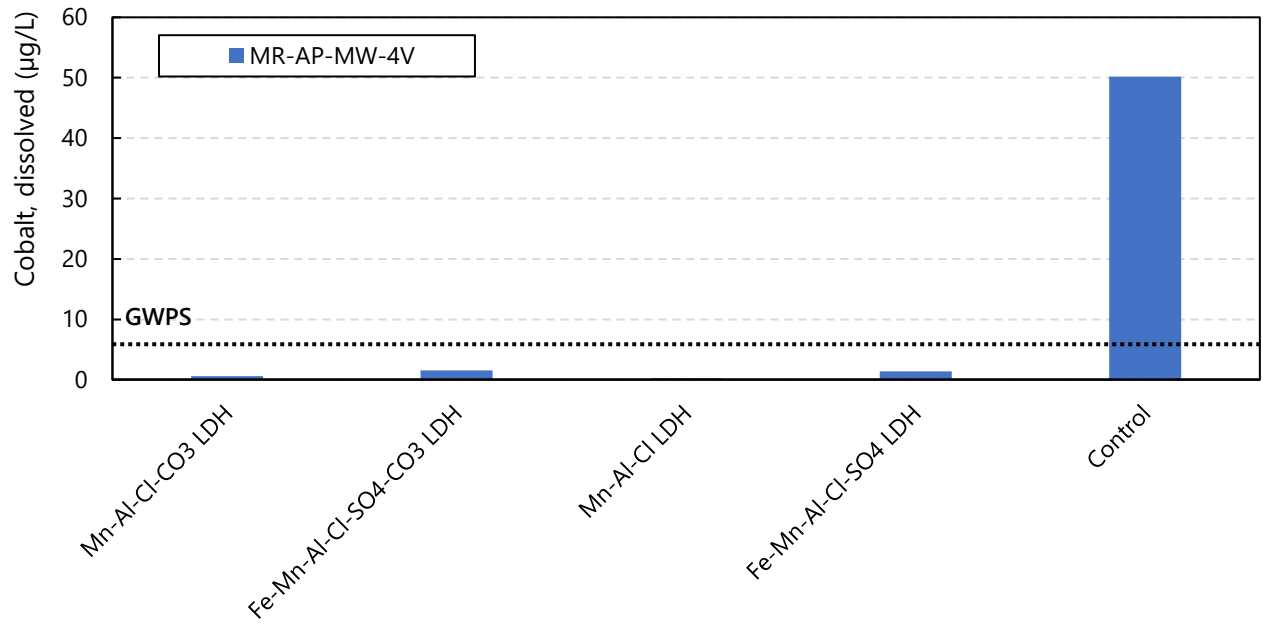
Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate

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Figure 9
Optimization Batch Test Results for MR-AP-MW-3D

Laboratory Treatability Study Results
Plant Miller



Notes:

All treatments shown on graph were tested as part of the optimization batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

Mn-Al-Cl-CO3 LDH was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate

GWPS: groundwater protection standard

LDH: layered double hydroxide

Mn-Al-Cl-CO3 LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

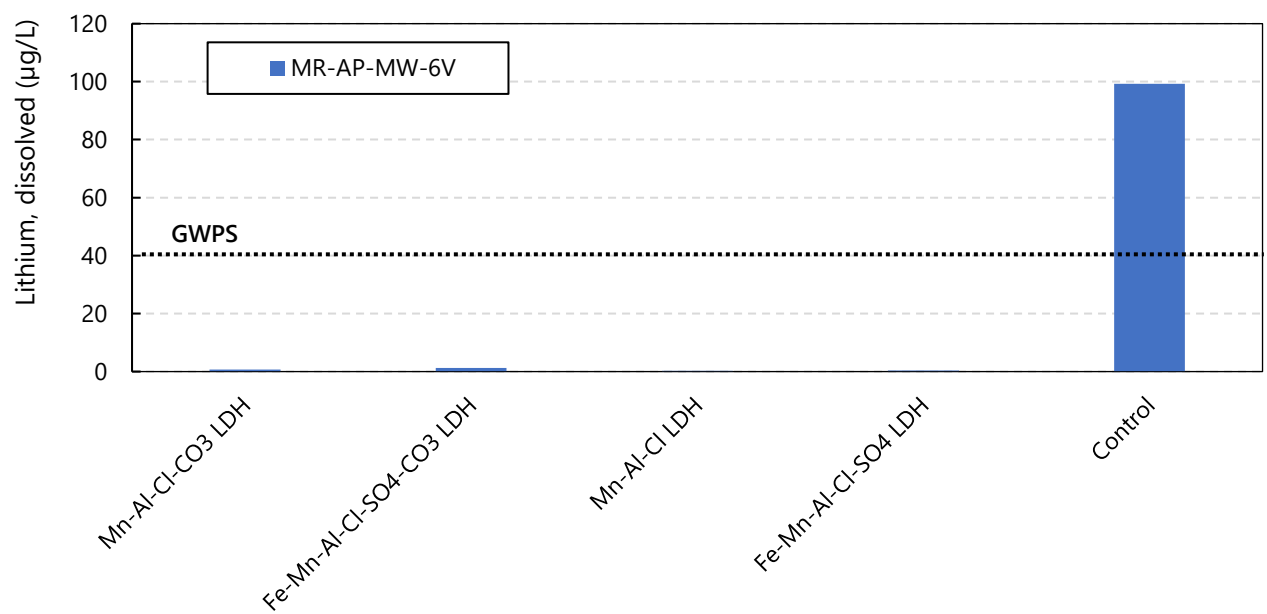
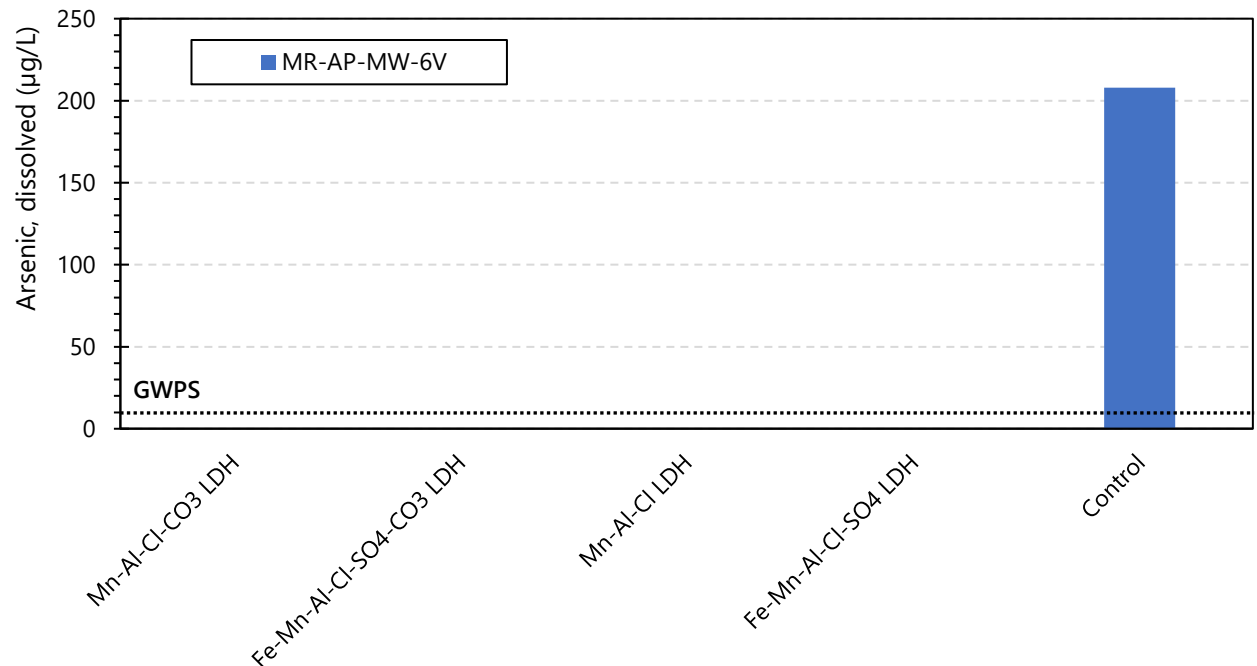
Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate

Filepath: \\Wcl-fs1\mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Miller\Figures\Figure 10 - Optimization Batch Test Results for MR-AP-MW-4V.docx



Figure 10
Optimization Batch Test Results for MR-AP-MW-4V

Laboratory Treatability Study Results
Plant Miller



Notes:

All treatments shown on graph were tested as part of the optimization batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

Mn-Al-Cl-CO3 LDH was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate

GWPS: groundwater protection standard

LDH: layered double hydroxide

Mn-Al-Cl-CO3 LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

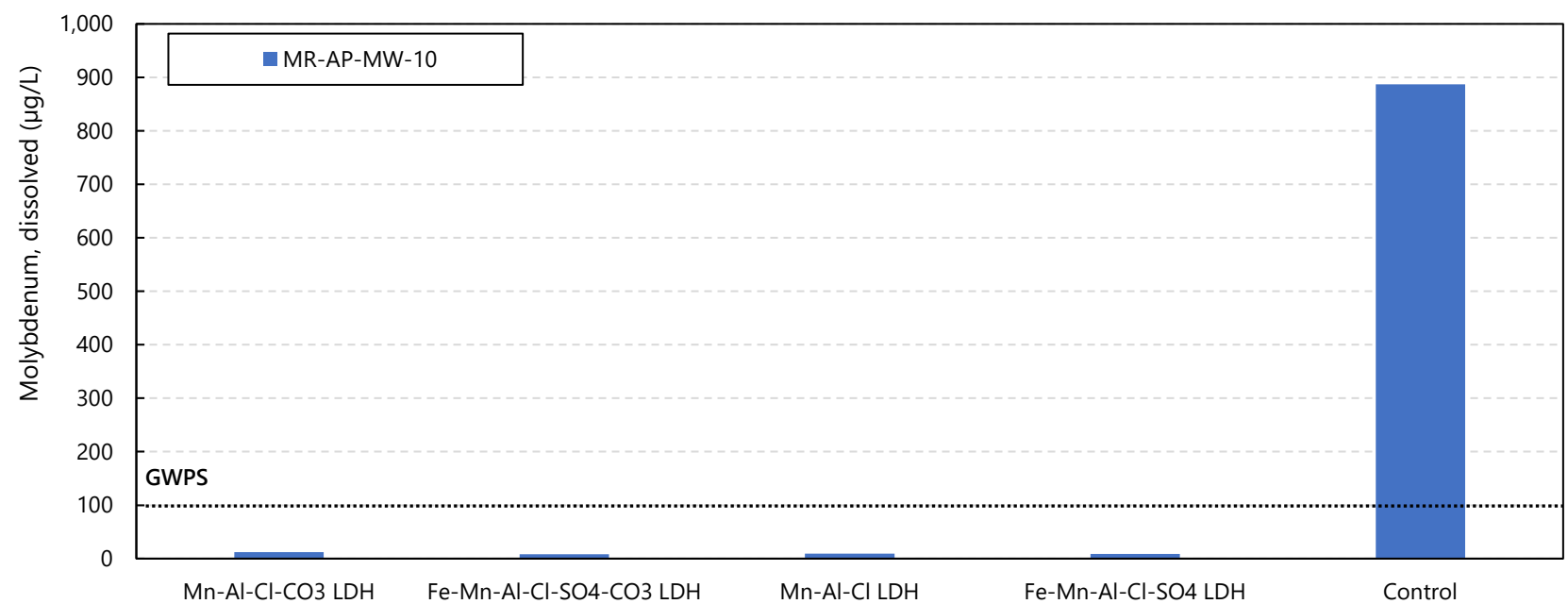
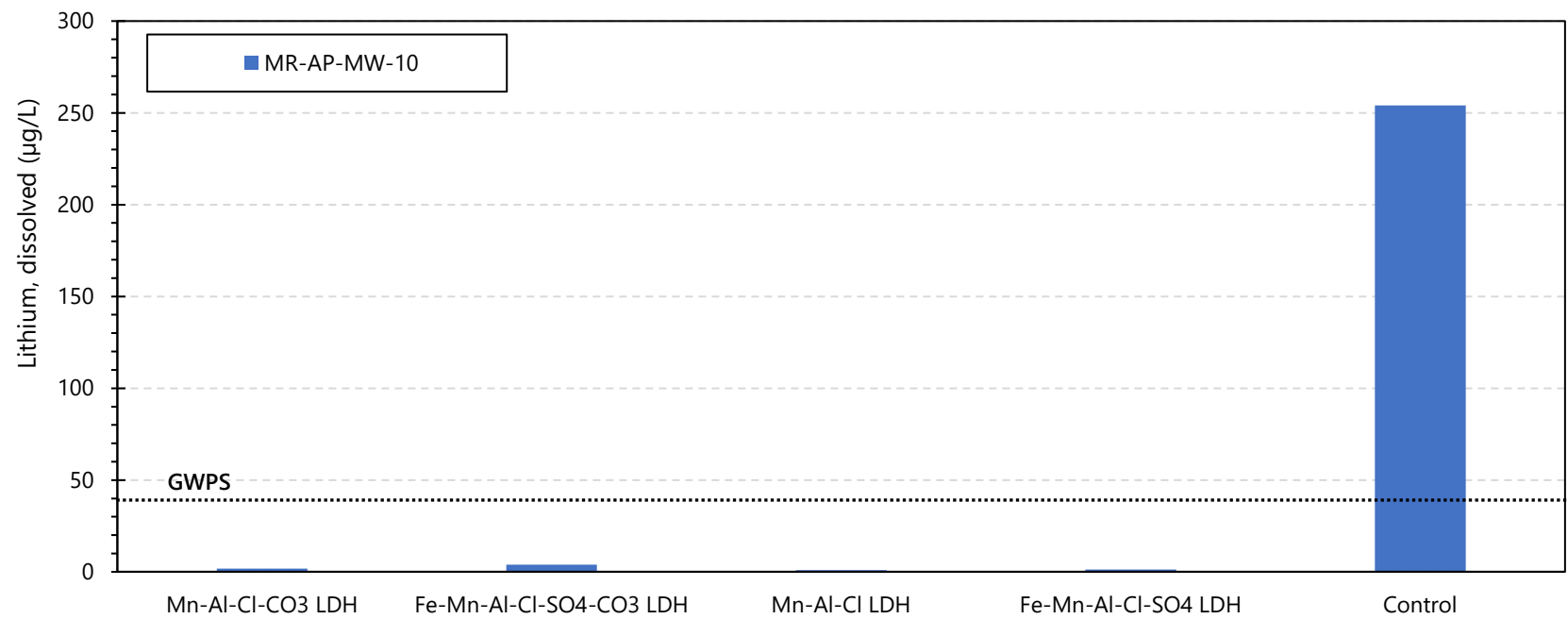
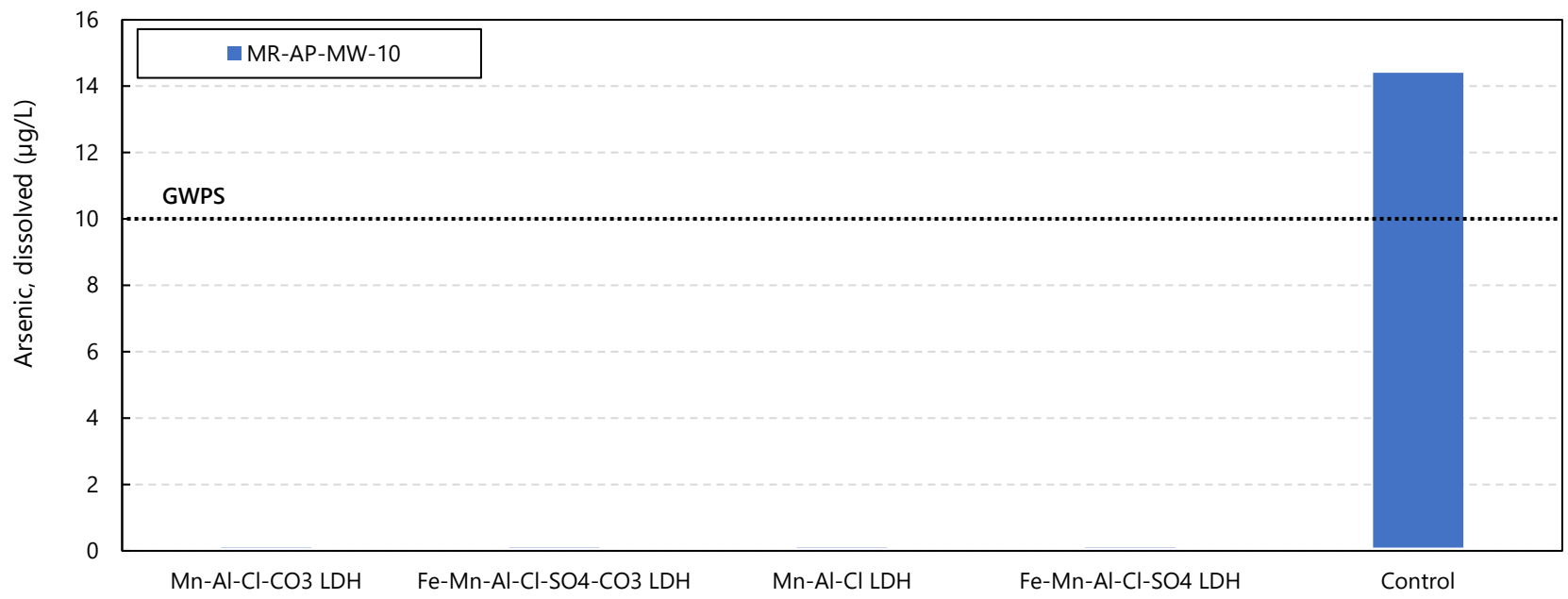
Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate

Filepath: \\Wcl-fs1\mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Miller\Figures\Figure 11 - Optimization Batch Test Results for MR-AP-MW-6V.docx



Figure 11
Optimization Batch Test Results for MR-AP-MW-6V

Laboratory Treatability Study Results
Plant Miller



Notes:

All treatments shown on graph were tested as part of the optimization batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

Mn-Al-Cl-CO3 LDH was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

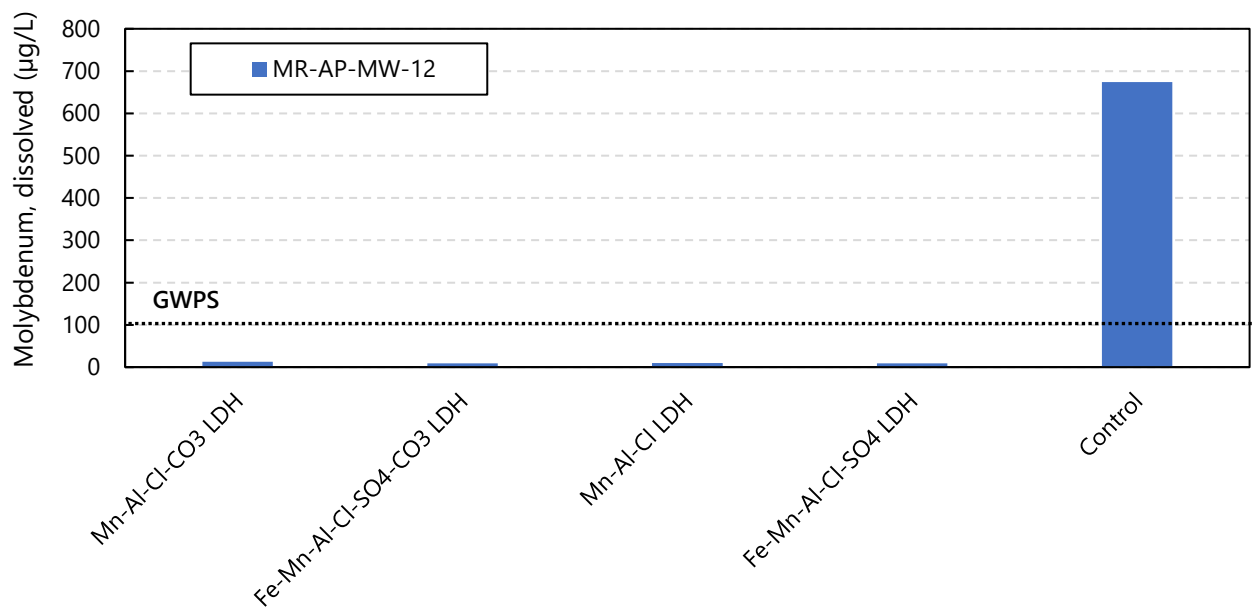
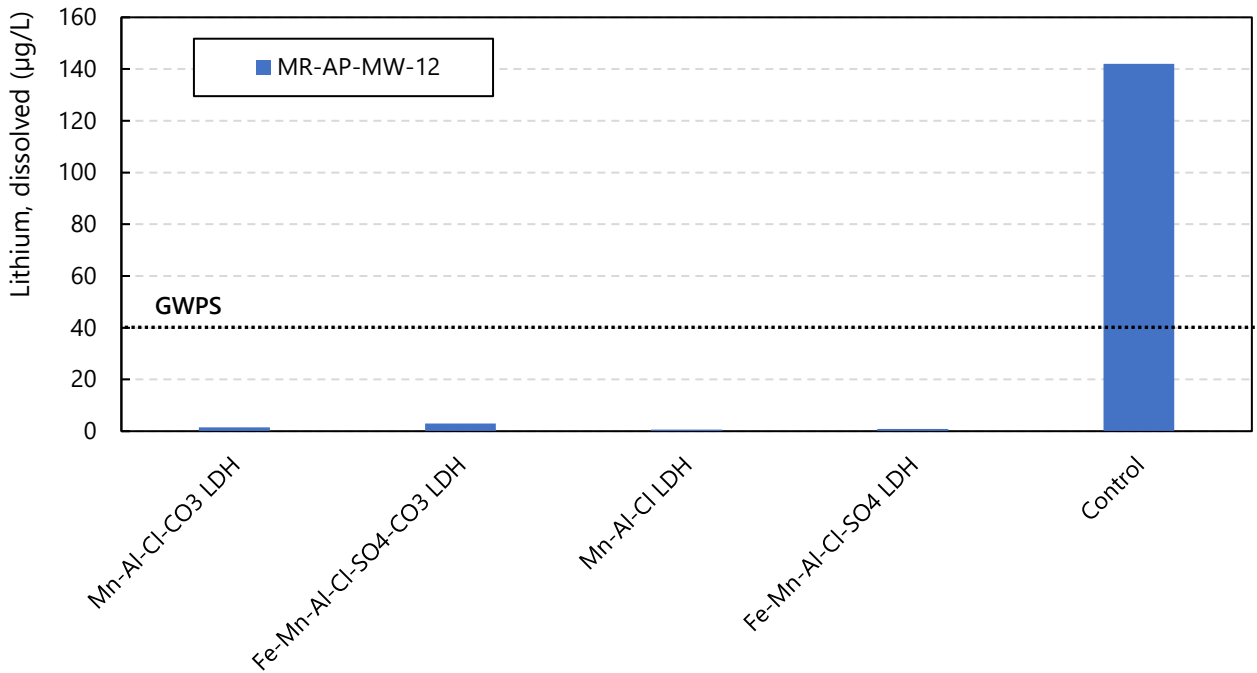
Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate

GWPS: groundwater protection standard

LDH: layered double hydroxide

Mn-Al-Cl-CO3 LDH: manganese chloride followed by sodium aluminate and potassium permanganate with sodium carbonate

Mn-Al-Cl LDH: manganese chloride followed by sodium aluminate and potassium permanganate



Notes:

All treatments shown on graph were tested as part of the optimization batch tests. Results not visible indicate that concentrations were either less than the detection limit or were detected at concentrations too low to be seen on the graph.

Mn-Al-Cl-CO3 LDH was tested in duplicate. The average of the two results is shown here.

µg/L: microgram per liter

Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate

GWPS: groundwater protection standard

LDH: layered double hydroxide

Mn-Al-Cl-CO3 LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

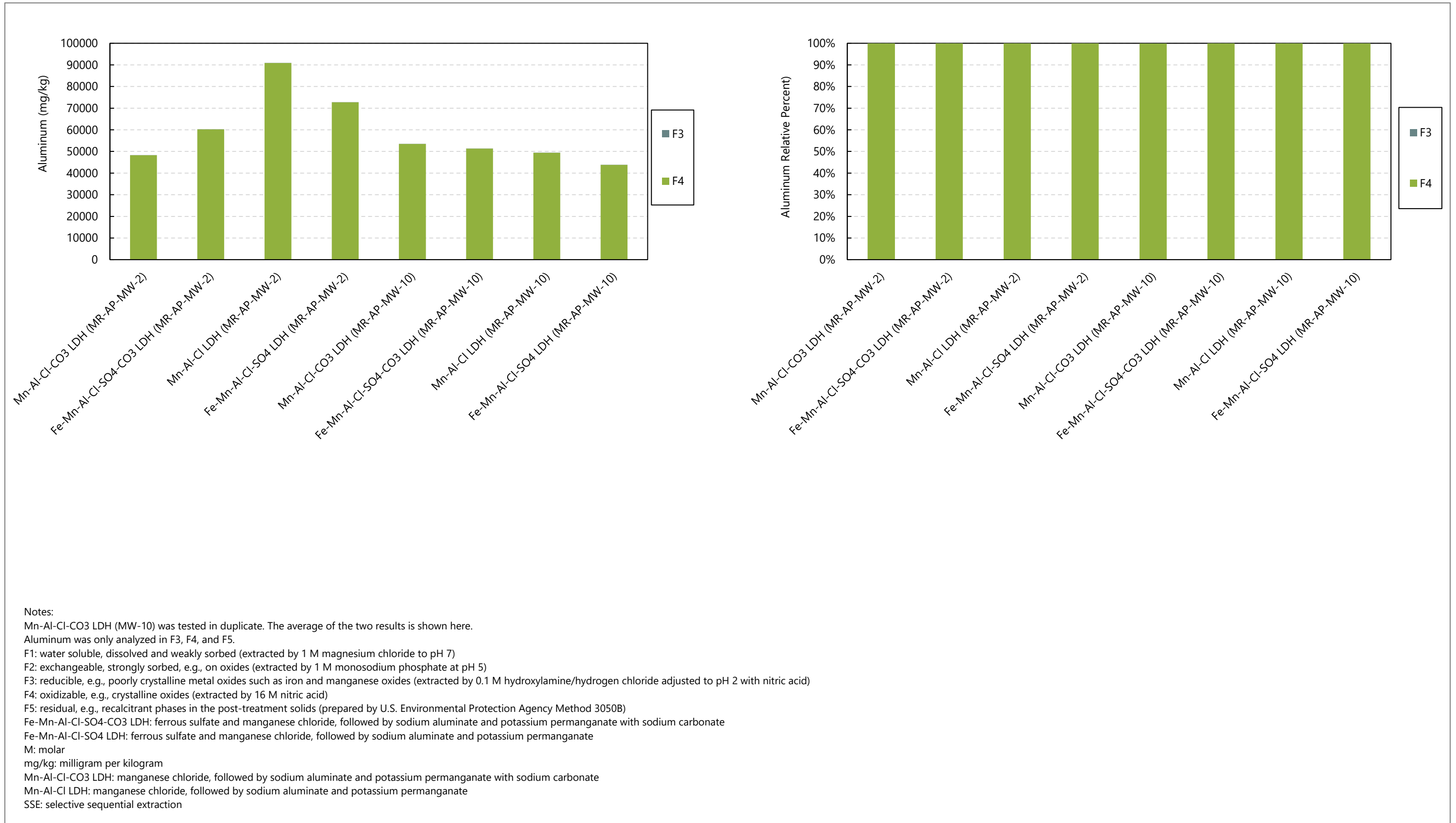
Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate

Filepath: \\Wc1-fs1\mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Miller\Figures\Figure 13 - Optimization Batch Test Results for MR-AP-MW-12.docx



Figure 13
Optimization Batch Test Results for MR-AP-MW-12

Laboratory Treatability Study Results
Plant Miller

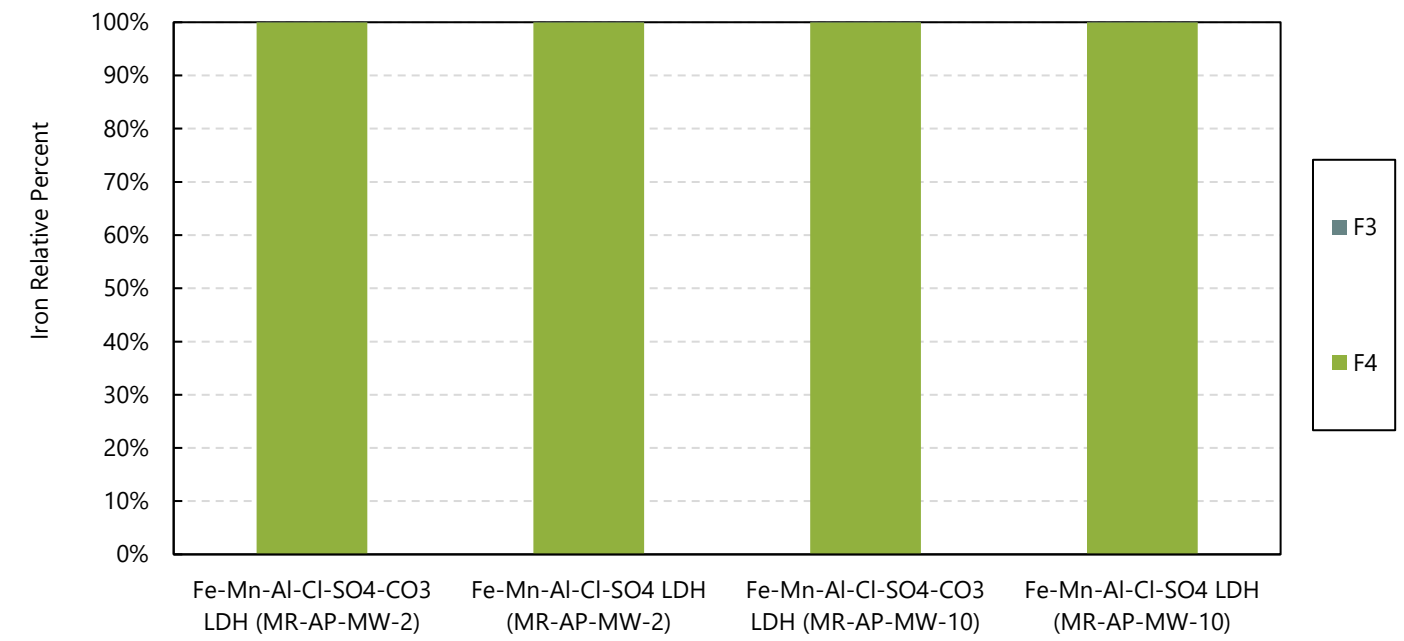
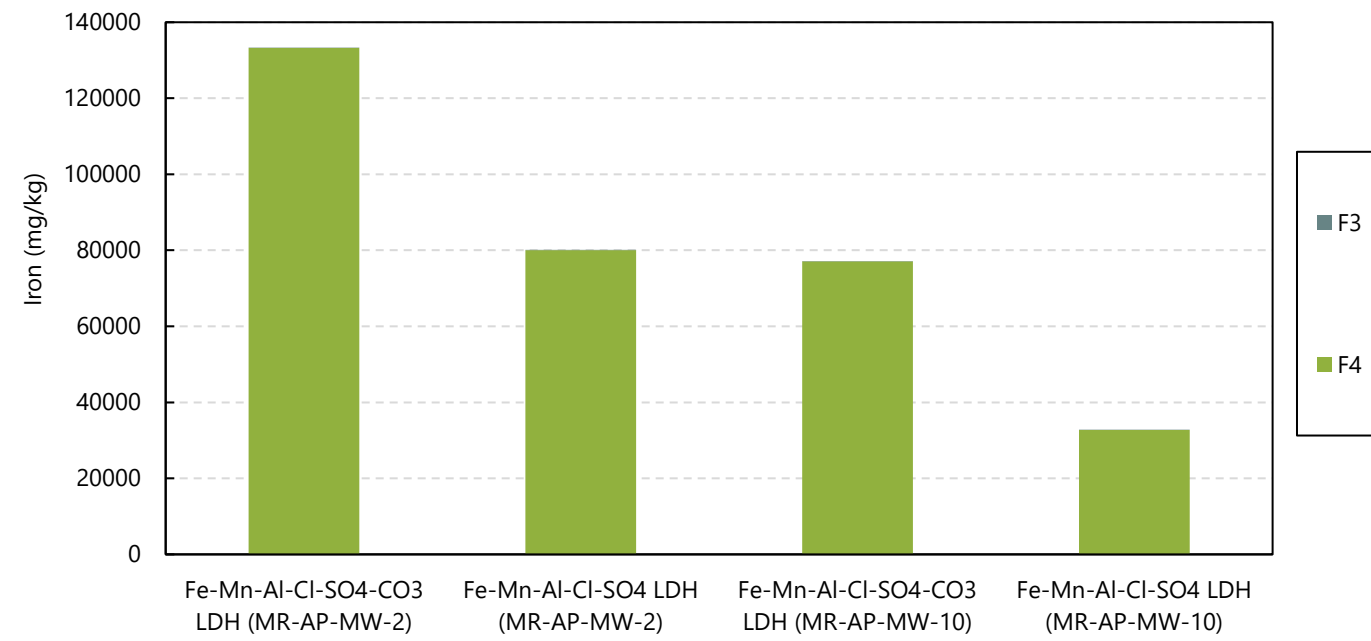


Filepath: \\wcl-fs1\mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Miller\Figures\wcl-fs1\mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Miller\Figures\Figure 14 - SSE Results of Aluminum for Post-Treatment Solids.docx



Figure 14
SSE Results of Aluminum for Post-Treatment Solids

Laboratory Treatability Study Results
Plant Miller



Notes:

Iron was only analyzed in F3, F4, and F5.

F1: water soluble, dissolved and weakly sorbed (extracted by 1 M magnesium chloride to pH 7)

F2: exchangeable, strongly sorbed, e.g., on oxides (extracted by 1 M monosodium phosphate at pH 5)

F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)

F4: oxidizable, e.g., crystalline oxides (extracted by 16 M nitric acid)

F5: residual, e.g., recalcitrant phases in the post-treatment solids (prepared by U.S. Environmental Protection Agency Method 3050B)

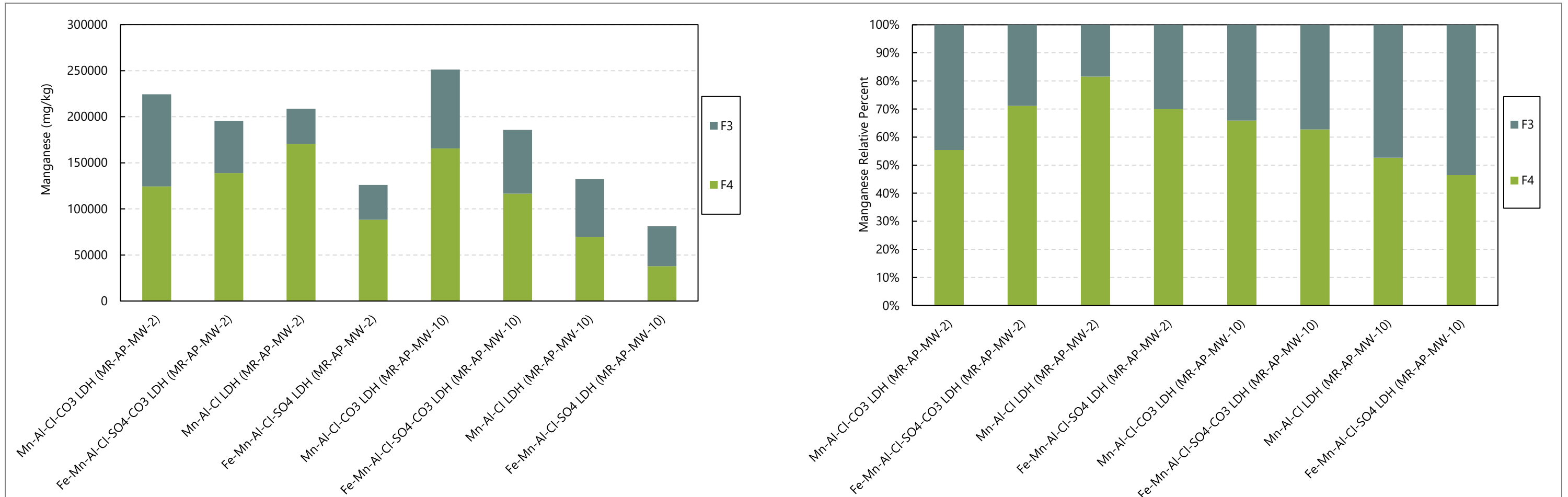
Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate

Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate

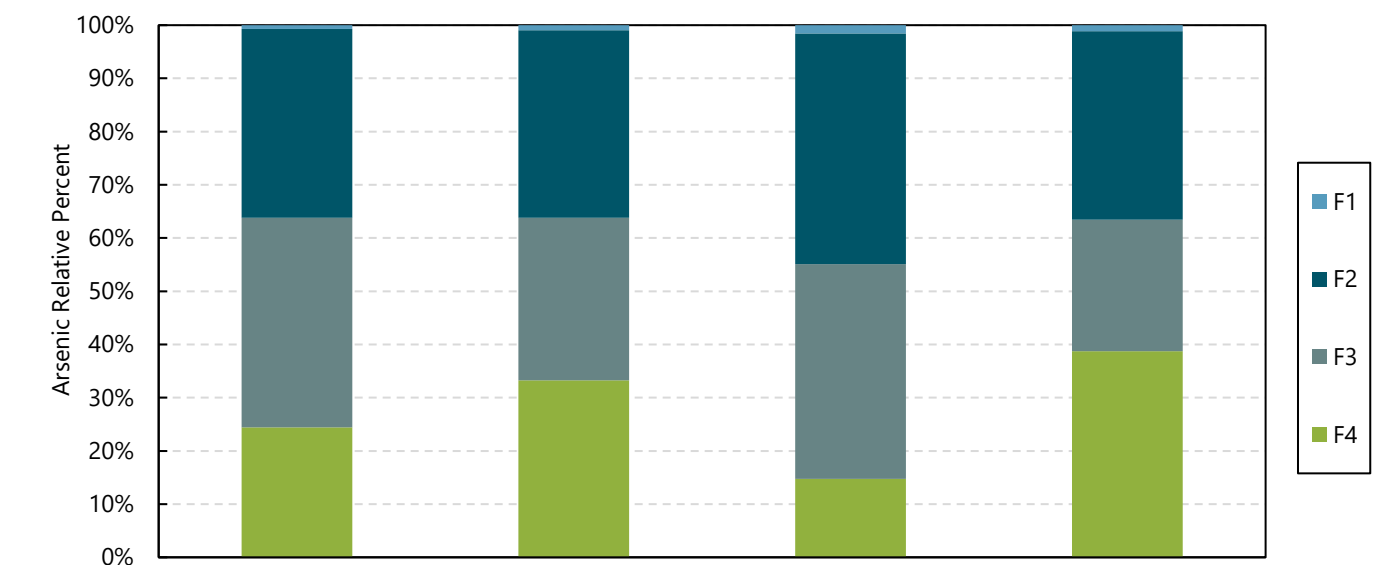
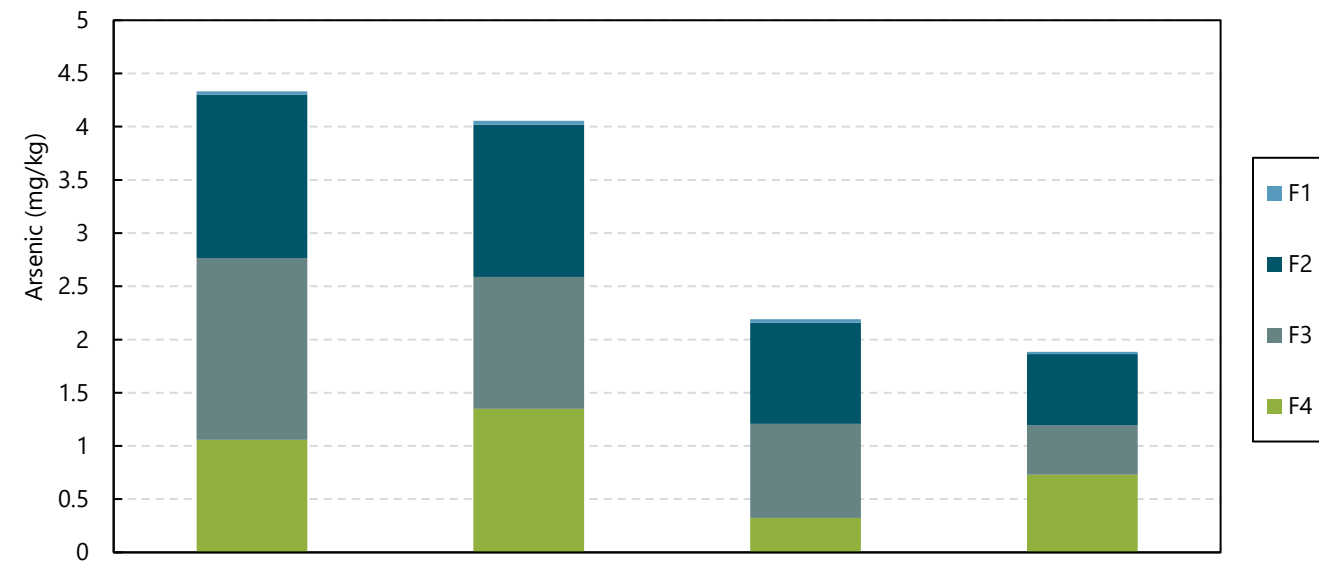
M: molar

mg/kg: milligram per kilogram

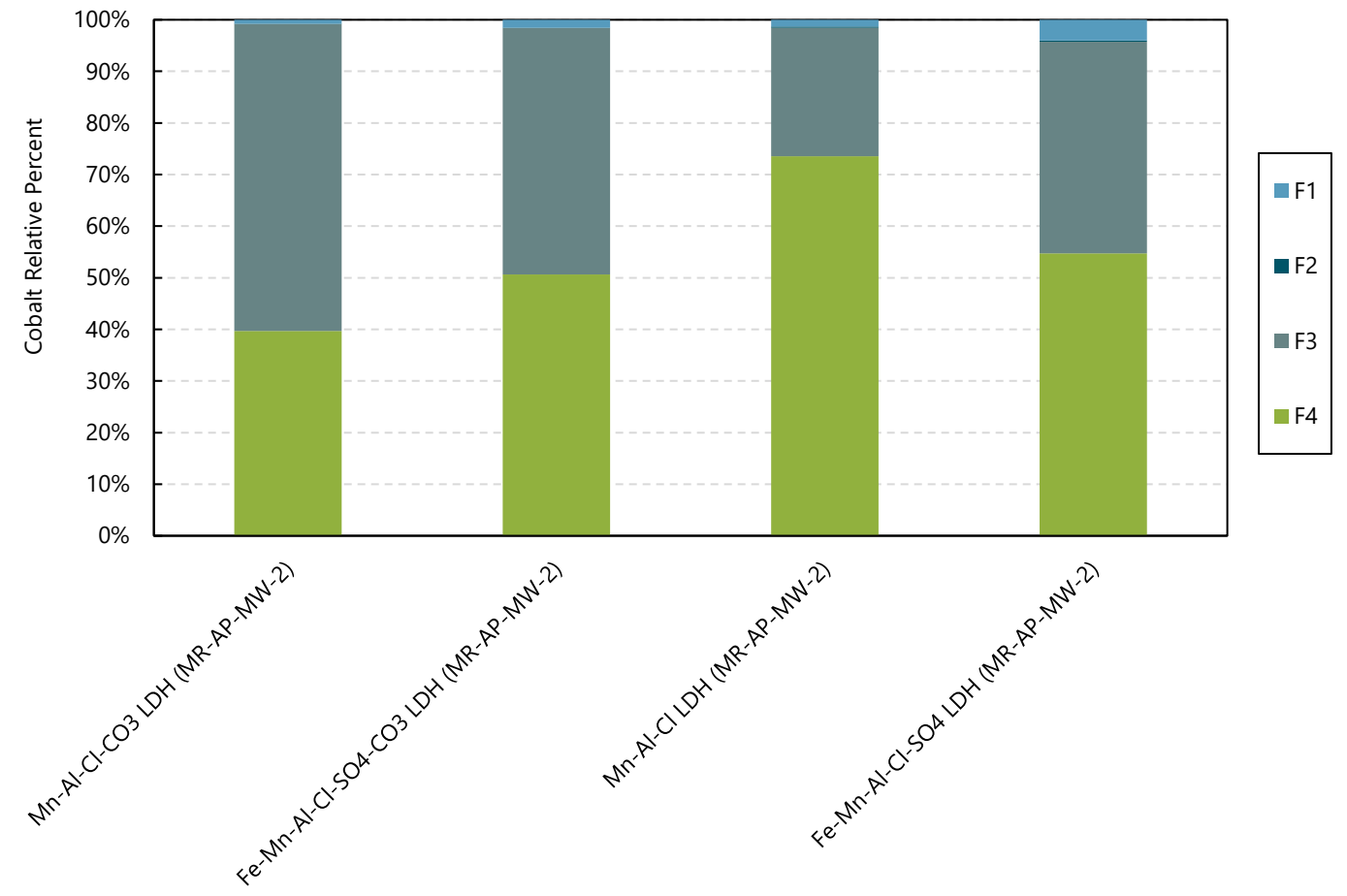
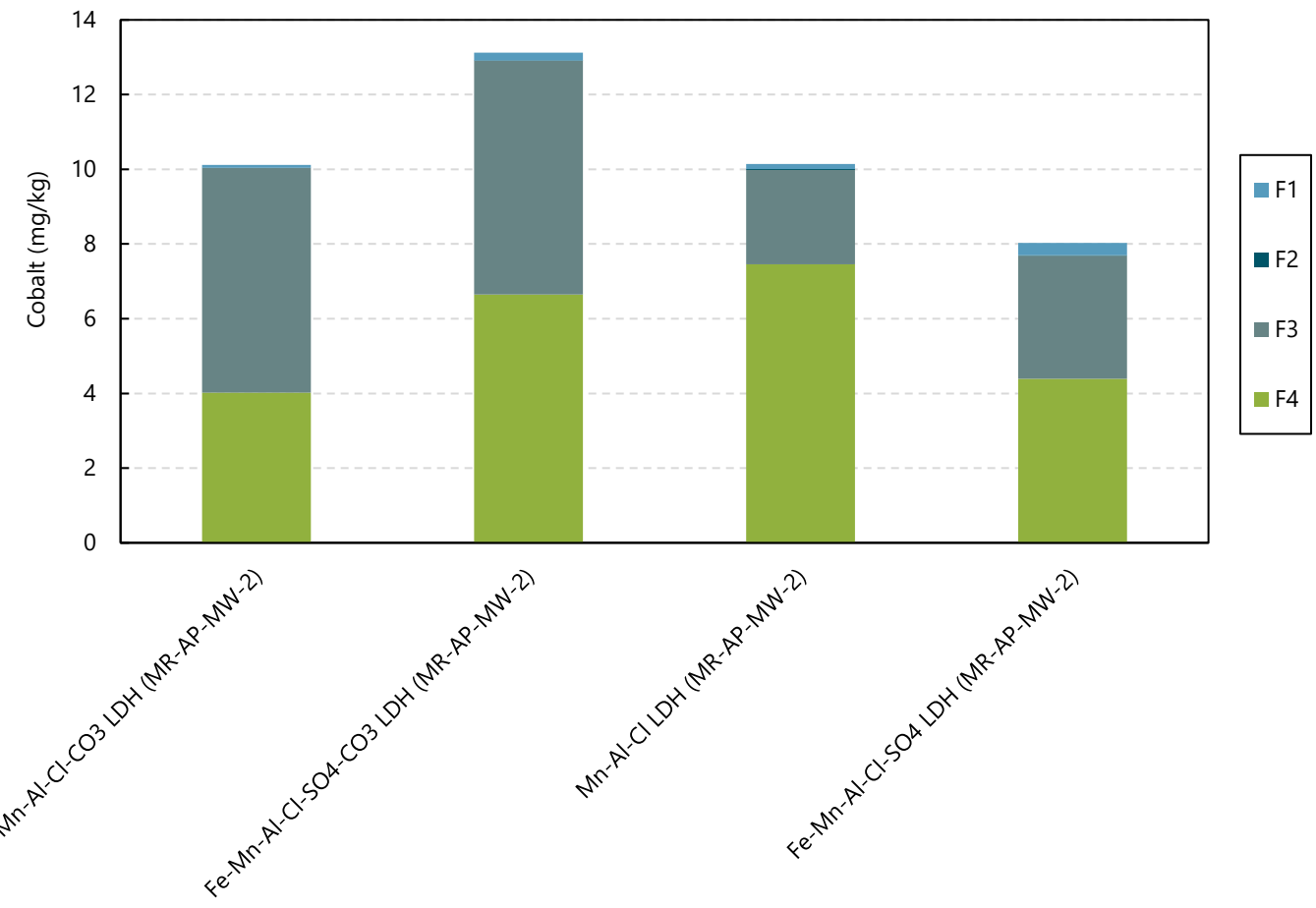
SSE: selective sequential extraction



Notes:
Mn-Al-Cl-CO3 LDH (MW-10) was tested in duplicate. The average of the two results is shown here.
Manganese was only analyzed in F3, F4, and F5.
F1: water soluble, dissolved and weakly sorbed (extracted by 1 M magnesium chloride to pH 7)
F2: exchangeable, strongly sorbed, e.g., on oxides (extracted by 1 M monosodium phosphate at pH 5)
F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)
F4: oxidizable, e.g., crystalline oxides (extracted by 16 M nitric acid)
F5: residual, e.g., recalcitrant phases in the post-treatment solids (prepared by U.S. Environmental Protection Agency Method 3050B)
Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate
M: molar
mg/kg: milligram per kilogram
Mn-Al-Cl-CO3 LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate
SSE: selective sequential extraction



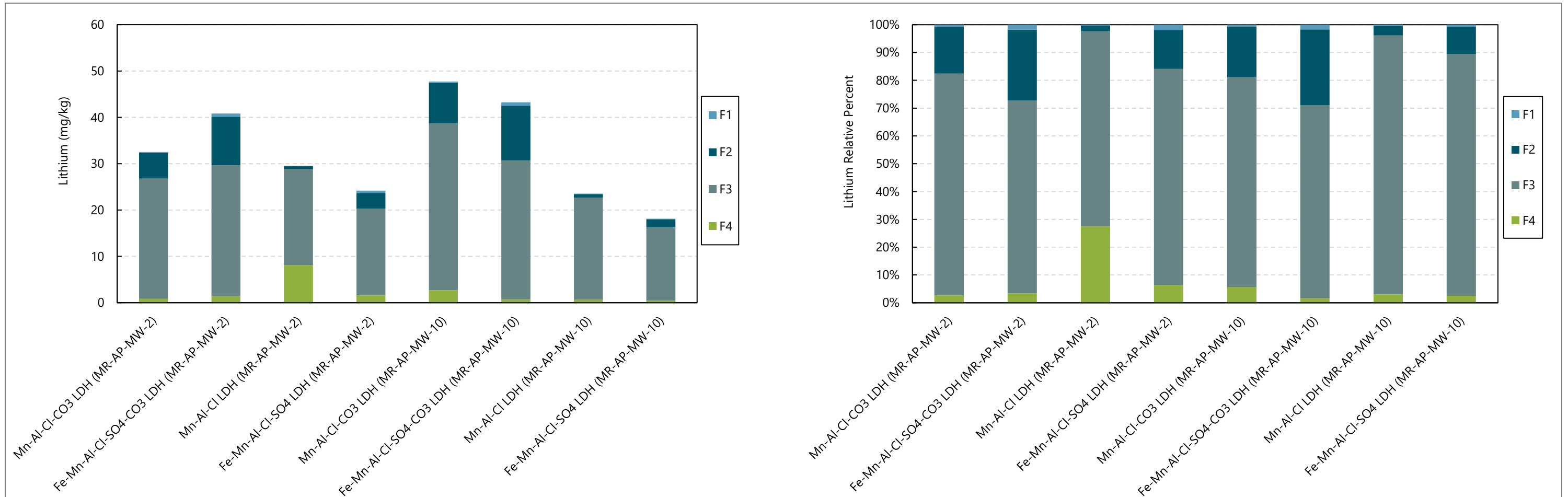
Notes:
Mn-Al-Cl-CO3 LDH (MW-10) was tested in duplicate. The average of the two results is shown here.
F1: water soluble, dissolved and weakly sorbed (extracted by 1 M magnesium chloride to pH 7)
F2: exchangeable, strongly sorbed, e.g., on oxides (extracted by 1 M monosodium phosphate at pH 5)
F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)
F4: oxidizable, e.g., crystalline oxides (extracted by 16 M nitric acid)
F5: residual, e.g., recalcitrant phases in the post-treatment solids (prepared by U.S. Environmental Protection Agency Method 3050B)
Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate
M: molar
mg/kg: milligram per kilogram
Mn-Al-Cl-CO3 LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate
SSE: selective sequential extraction



Notes:

- F1: water soluble, dissolved and weakly sorbed (extracted by 1 M magnesium chloride to pH 7)
- F2: exchangeable, strongly sorbed, e.g., on oxides (extracted by 1 M monosodium phosphate at pH 5)
- F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)
- F4: oxidizable, e.g., crystalline oxides (extracted by 16 M nitric acid)
- F5: residual, e.g., recalcitrant phases in the post-treatment solids (prepared by U.S. Environmental Protection Agency Method 3050B)

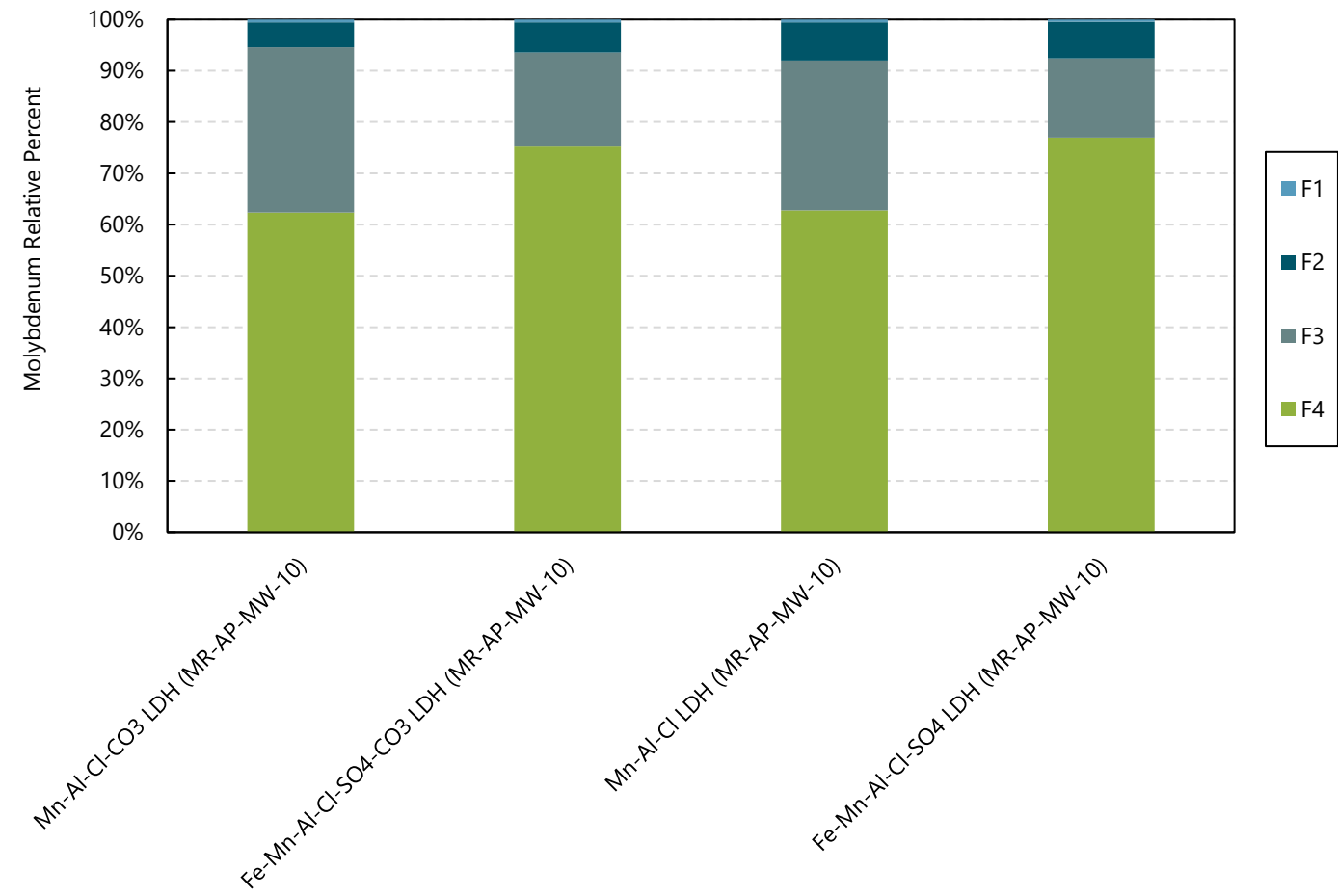
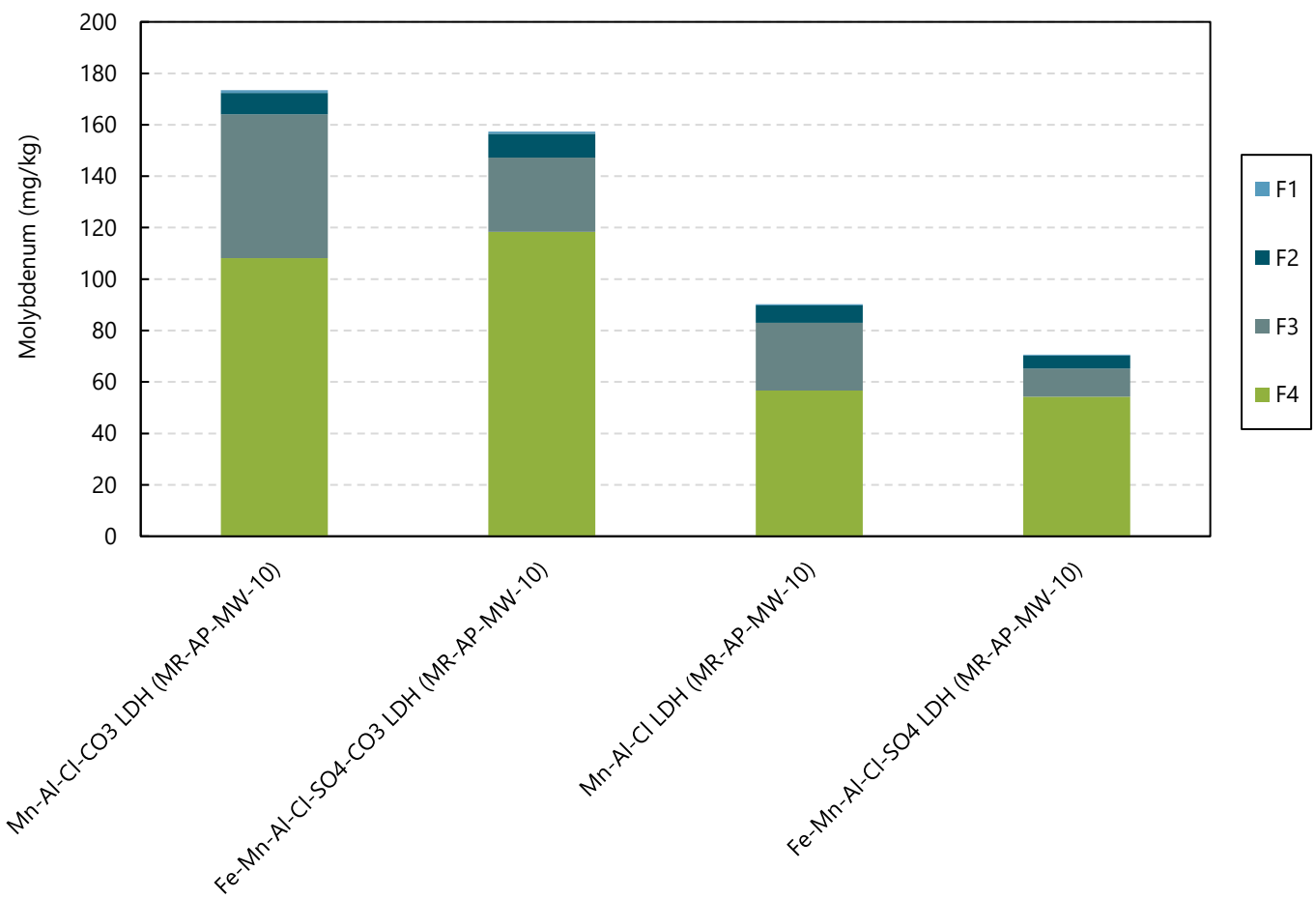
Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
 Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate
 M: molar
 mg/kg: milligram per kilogram
 Mn-Al-Cl-CO3 LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
 Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate
 SSE: selective sequential extraction



Notes:
Mn-Al-Cl-CO3 LDH (MW-10) was tested in duplicate. The average of the two results is shown here.
F1: water soluble, dissolved and weakly sorbed (extracted by 1 M magnesium chloride to pH 7)
F2: exchangeable, strongly sorbed, e.g., on oxides (extracted by 1 M monosodium phosphate at pH 5)
F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)
F4: oxidizable, e.g., crystalline oxides (extracted by 16 M nitric acid)
F5: residual, e.g., recalcitrant phases in the post-treatment solids (prepared by U.S. Environmental Protection Agency Method 3050B)
Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate
M: molar
mg/kg: milligram per kilogram
Mn-Al-Cl-CO3 LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate
SSE: selective sequential extraction



Figure 19
SSE Results of Lithium for Post-Treatment Solids
Laboratory Treatability Study Results
Plant Miller



Notes:
Mn-Al-Cl-CO3 LDH (MW-10) was tested in duplicate. The average of the two results is shown here.
F1: water soluble, dissolved and weakly sorbed (extracted by 1 M magnesium chloride to pH 7)
F2: exchangeable, strongly sorbed, e.g., on oxides (extracted by 1 M monosodium phosphate at pH 5)
F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)
F4: oxidizable, e.g., crystalline oxides (extracted by 16 M nitric acid)
F5: residual, e.g., recalcitrant phases in the post-treatment solids (prepared by U.S. Environmental Protection Agency Method 3050B)
Fe-Mn-Al-Cl-SO4-CO3 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
Fe-Mn-Al-Cl-SO4 LDH: ferrous sulfate and manganese chloride, followed by sodium aluminate and potassium permanganate
M: molar
mg/kg: milligram per kilogram
Mn-Al-Cl-CO3 LDH: manganese chloride, followed by sodium aluminate and potassium permanganate with sodium carbonate
Mn-Al-Cl LDH: manganese chloride, followed by sodium aluminate and potassium permanganate
SSE: selective sequential extraction

Appendix A

Laboratory Analytical Reports

Appendix A

Laboratory Analytical Reports



October 11, 2022

Service Request No:K2211425

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller Treatability

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory October 03, 2022
For your reference, these analyses have been assigned our service request number **K2211425**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-MW-2		Lab ID: K2211425-001				
Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	6.97		0.09	0.50	ug/L	200.8
Arsenic, Dissolved	3.87		0.09	0.50	ug/L	200.8
Cobalt	55.2		0.009	0.020	ug/L	200.8
Cobalt, Dissolved	55.0		0.009	0.020	ug/L	200.8
Iron	182000		20	200	ug/L	200.8
Iron, Dissolved	180000		20	200	ug/L	200.8
Lithium	193		0.20	0.10	ug/L	200.8
Lithium, Dissolved	186		0.20	0.10	ug/L	200.8
Manganese	3500		0.04	0.20	ug/L	200.8
Manganese, Dissolved	3430		0.04	0.20	ug/L	200.8
Molybdenum	2.73		0.03	0.10	ug/L	200.8
Molybdenum, Dissolved	1.87		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-MW-10		Lab ID: K2211425-002				
Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	32.1		0.09	0.50	ug/L	200.8
Arsenic, Dissolved	31.5		0.09	0.50	ug/L	200.8
Cobalt	1.38		0.009	0.020	ug/L	200.8
Cobalt, Dissolved	1.36		0.009	0.020	ug/L	200.8
Iron	2600		0.3	4.0	ug/L	200.8
Iron, Dissolved	1820		0.3	4.0	ug/L	200.8
Lithium	231		0.20	0.10	ug/L	200.8
Lithium, Dissolved	232		0.20	0.10	ug/L	200.8
Manganese	1060		0.04	0.20	ug/L	200.8
Manganese, Dissolved	1060		0.04	0.20	ug/L	200.8
Molybdenum	830		0.03	0.10	ug/L	200.8
Molybdenum, Dissolved	828		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-MW-12		Lab ID: K2211425-003				
Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	8.56		0.09	0.50	ug/L	200.8
Arsenic, Dissolved	6.78		0.09	0.50	ug/L	200.8
Cobalt	0.899		0.009	0.020	ug/L	200.8
Cobalt, Dissolved	0.819		0.009	0.020	ug/L	200.8
Iron	2190		0.3	4.0	ug/L	200.8
Iron, Dissolved	1580		0.3	4.0	ug/L	200.8
Lithium	80.4		0.20	0.10	ug/L	200.8
Lithium, Dissolved	78.0		0.20	0.10	ug/L	200.8
Manganese	652		0.04	0.20	ug/L	200.8
Manganese, Dissolved	639		0.04	0.20	ug/L	200.8
Molybdenum	753		0.03	0.10	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-MW-12	Lab ID: K2211425-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
Molybdenum, Dissolved	724		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-MW-4V	Lab ID: K2211425-004
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	2.30		0.09	0.50	ug/L	200.8
Arsenic, Dissolved	1.82		0.09	0.50	ug/L	200.8
Cobalt	8.18		0.009	0.020	ug/L	200.8
Cobalt, Dissolved	7.85		0.009	0.020	ug/L	200.8
Iron	2010		0.3	4.0	ug/L	200.8
Iron, Dissolved	1360		0.3	4.0	ug/L	200.8
Lithium	144		0.20	0.10	ug/L	200.8
Lithium, Dissolved	143		0.20	0.10	ug/L	200.8
Manganese	2600		0.04	0.20	ug/L	200.8
Manganese, Dissolved	2440		0.04	0.20	ug/L	200.8
Molybdenum	32.4		0.03	0.10	ug/L	200.8
Molybdenum, Dissolved	30.5		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-MW-6V	Lab ID: K2211425-005
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	0.73		0.09	0.50	ug/L	200.8
Arsenic, Dissolved	0.61		0.09	0.50	ug/L	200.8
Cobalt	0.695		0.009	0.020	ug/L	200.8
Cobalt, Dissolved	0.690		0.009	0.020	ug/L	200.8
Iron	144		0.3	4.0	ug/L	200.8
Iron, Dissolved	9.6		0.3	4.0	ug/L	200.8
Lithium	94.3		0.20	0.10	ug/L	200.8
Lithium, Dissolved	91.3		0.20	0.10	ug/L	200.8
Manganese	632		0.04	0.20	ug/L	200.8
Manganese, Dissolved	619		0.04	0.20	ug/L	200.8
Molybdenum	6.71		0.03	0.10	ug/L	200.8
Molybdenum, Dissolved	6.47		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-MW-3D	Lab ID: K2211425-006
-------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	10.8		0.09	0.50	ug/L	200.8
Arsenic, Dissolved	8.37		0.09	0.50	ug/L	200.8
Cobalt	3.38		0.009	0.020	ug/L	200.8
Cobalt, Dissolved	3.27		0.009	0.020	ug/L	200.8
Iron	2290		0.3	4.0	ug/L	200.8
Iron, Dissolved	1690		0.3	4.0	ug/L	200.8
Lithium	88.5		0.20	0.10	ug/L	200.8
Lithium, Dissolved	86.7		0.20	0.10	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-MW-3D **Lab ID: K2211425-006**

Analyte	Results	Flag	MDL	MRL	Units	Method
Manganese	1200		0.04	0.20	ug/L	200.8
Manganese, Dissolved	1180		0.04	0.20	ug/L	200.8
Molybdenum	24.6		0.03	0.10	ug/L	200.8
Molybdenum, Dissolved	24.3		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-MW-3D-DUP **Lab ID: K2211425-007**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	10.9		0.09	0.50	ug/L	200.8
Arsenic, Dissolved	8.41		0.09	0.50	ug/L	200.8
Cobalt	3.30		0.009	0.020	ug/L	200.8
Cobalt, Dissolved	3.37		0.009	0.020	ug/L	200.8
Iron	2340		0.3	4.0	ug/L	200.8
Iron, Dissolved	1700		0.3	4.0	ug/L	200.8
Lithium	88.3		0.20	0.10	ug/L	200.8
Lithium, Dissolved	88.7		0.20	0.10	ug/L	200.8
Manganese	1220		0.04	0.20	ug/L	200.8
Manganese, Dissolved	1190		0.04	0.20	ug/L	200.8
Molybdenum	24.2		0.03	0.10	ug/L	200.8
Molybdenum, Dissolved	24.3		0.03	0.10	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05

Service Request:K2211425

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2211425-001	MR-AP-MW-2	9/28/2022	1430
K2211425-002	MR-AP-MW-10	9/28/2022	1435
K2211425-003	MR-AP-MW-12	9/28/2022	1420
K2211425-004	MR-AP-MW-4V	9/28/2022	1445
K2211425-005	MR-AP-MW-6V	9/28/2022	1450
K2211425-006	MR-AP-MW-3D	9/28/2022	1455
K2211425-007	MR-AP-MW-3D-DUP	9/28/2022	1456

K22114125

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: 503-972-5019					Parameters <table border="1" style="width:100%; height: 100%; border-collapse: collapse;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																																											
Date:	10/3/2022																																																															
Project Name:	Miller Treatability																																																															
Project Number:	221114-07.01 Task 05																																																															
Project Manager:	Masa Kanematsu																																																															
Phone Number:	503-972-5001																																																															
Shipment Method:	ALS Courier																																																															
Line	Field Sample ID	Collection		Matrix	No. of Containers	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="10">Dissolved Metals (Fe, Mn, As, Co, Li, Mo)</th> <th colspan="9">Total Metals (Fe, Mn, As, Co, Li, Mo)</th> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																			Dissolved Metals (Fe, Mn, As, Co, Li, Mo)										Total Metals (Fe, Mn, As, Co, Li, Mo)																													
		Dissolved Metals (Fe, Mn, As, Co, Li, Mo)																							Total Metals (Fe, Mn, As, Co, Li, Mo)																																							
		Date	Time																																																													
1	MR-AP-MW-2	9/28/2022	2:30:00 PM	Water	2	X	X															HNO3 preserved.																																										
2	MR-AP-MW-10	9/28/2022	2:35:00 PM	Water	2	X	X															HNO3 preserved.																																										
3	MR-AP-MW-12	9/28/2022	2:40:00 PM	Water	2	X	X															HNO3 preserved.																																										
4	MR-AP-MW-4V	9/28/2022	2:45:00 PM	Water	2	X	X															HNO3 preserved.																																										
5	MR-AP-MW-6V	9/28/2022	2:50:00 PM	Water	2	X	X															HNO3 preserved.																																										
6	MR-AP-MW-3D	9/28/2022	2:55:00 PM	Water	2	X	X															HNO3 preserved.																																										
7	MR-AP-MW-3D-DUP	9/28/2022	2:56:00 PM	Water	2	X	X															HNO3 preserved.																																										
8																																																																
9																																																																
10																																																																
11																																																																
12																																																																
13																																																																
14																																																																
15																																																																

ANCHOR QEA
 Jessica Goin
 6720 SW Macadam Ave
 Suite 125
 Portland OR 97219

Notes: Samples for dissolved metals have been filtered. If running > 10X Dilution please contact Jessica (503-972-5019) or Masa (503-972-5001)

Relinquished by:	Company:
Gillian Williams	Anchor QEA
Signature/Print Name:	Date/Time:
<i>Gillian Williams</i>	10/3/2022 10:30
Relinquished by:	Company:
<i>[Signature]</i>	ALS
Signature/Print Name:	Date/Time:
<i>[Signature]</i>	10/3/22 1230

Received by:	
<i>[Signature]</i>	
Signature/Print Name:	
<i>[Signature]</i>	ALS 10/3/22 11:00
Received by:	
<i>[Signature]</i>	
Signature/Print Name:	
<i>Josh McPherson</i>	ALS 10/3/22 1230

Cooler Receipt and Preservation Form

Client Anchor QEA Service Request K22 114125
 Received: 10-3-22 Opened: 10-3-22 By: Ym Unloaded: 10-3-22 By: Ym

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Port
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID /NA	Out of temp indicate with 'X'	PM Notified if out of temp	Tracking Number NA	Filed
<u>8.2</u>		<u>1201</u>					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
 If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
13. Were VOA vials received without headspace? Indicate in the table below NA Y N
14. Was C12/Res negative? NA Y N
15. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Under filled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Temp not an issue - could not PH due to limited vol.



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05

Service Request: K2211425

Sample Name: MR-AP-MW-2
Lab Code: K2211425-001
Sample Matrix: Water

Date Collected: 09/28/22
Date Received: 10/3/22

Analysis Method
200.8

Extracted/Digested By
SSOLADEY

Analyzed By
EMCALLISTER

Sample Name: MR-AP-MW-10
Lab Code: K2211425-002
Sample Matrix: Water

Date Collected: 09/28/22
Date Received: 10/3/22

Analysis Method
200.8

Extracted/Digested By
SSOLADEY

Analyzed By
EMCALLISTER

Sample Name: MR-AP-MW-12
Lab Code: K2211425-003
Sample Matrix: Water

Date Collected: 09/28/22
Date Received: 10/3/22

Analysis Method
200.8

Extracted/Digested By
SSOLADEY

Analyzed By
EMCALLISTER

Sample Name: MR-AP-MW-4V
Lab Code: K2211425-004
Sample Matrix: Water

Date Collected: 09/28/22
Date Received: 10/3/22

Analysis Method
200.8

Extracted/Digested By
SSOLADEY

Analyzed By
EMCALLISTER

Sample Name: MR-AP-MW-6V
Lab Code: K2211425-005
Sample Matrix: Water

Date Collected: 09/28/22
Date Received: 10/3/22

Analysis Method
200.8

Extracted/Digested By
SSOLADEY

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05

Service Request: K2211425

Sample Name: MR-AP-MW-3D
Lab Code: K2211425-006
Sample Matrix: Water

Date Collected: 09/28/22
Date Received: 10/3/22

Analysis Method
200.8

Extracted/Digested By
SSOLADEY

Analyzed By
EMCALLISTER

Sample Name: MR-AP-MW-3D-DUP
Lab Code: K2211425-007
Sample Matrix: Water

Date Collected: 09/28/22
Date Received: 10/3/22

Analysis Method
200.8

Extracted/Digested By
SSOLADEY

Analyzed By
EMCALLISTER



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-2
Lab Code: K2211425-001

Service Request: K2211425
Date Collected: 09/28/22 14:30
Date Received: 10/03/22 12:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	3.87	ug/L	0.50	0.09	1	10/11/22 11:57	10/07/22	
Cobalt	200.8	55.0	ug/L	0.020	0.009	1	10/11/22 11:57	10/07/22	
Iron	200.8	180000	ug/L	200	20	50	10/11/22 11:59	10/07/22	
Lithium	200.8	186	ug/L	0.10	0.20	1	10/11/22 11:57	10/07/22	
Manganese	200.8	3430	ug/L	0.20	0.04	1	10/11/22 11:57	10/07/22	
Molybdenum	200.8	1.87	ug/L	0.10	0.03	1	10/11/22 11:57	10/07/22	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-2
Lab Code: K2211425-001

Service Request: K2211425
Date Collected: 09/28/22 14:30
Date Received: 10/03/22 12:30

Basis: NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	6.97	ug/L	0.50	0.09	1	10/11/22 11:15	10/07/22	
Cobalt	200.8	55.2	ug/L	0.020	0.009	1	10/11/22 11:15	10/07/22	
Iron	200.8	182000	ug/L	200	20	50	10/11/22 11:47	10/07/22	
Lithium	200.8	193	ug/L	0.10	0.20	1	10/11/22 11:15	10/07/22	
Manganese	200.8	3500	ug/L	0.20	0.04	1	10/11/22 11:15	10/07/22	
Molybdenum	200.8	2.73	ug/L	0.10	0.03	1	10/11/22 11:15	10/07/22	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-10
Lab Code: K2211425-002

Service Request: K2211425
Date Collected: 09/28/22 14:35
Date Received: 10/03/22 12:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	31.5	ug/L	0.50	0.09	1	10/11/22 12:01	10/07/22	
Cobalt	200.8	1.36	ug/L	0.020	0.009	1	10/11/22 12:01	10/07/22	
Iron	200.8	1820	ug/L	4.0	0.3	1	10/11/22 12:01	10/07/22	
Lithium	200.8	232	ug/L	0.10	0.20	1	10/11/22 12:01	10/07/22	
Manganese	200.8	1060	ug/L	0.20	0.04	1	10/11/22 12:01	10/07/22	
Molybdenum	200.8	828	ug/L	0.10	0.03	1	10/11/22 12:01	10/07/22	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-10
Lab Code: K2211425-002

Service Request: K2211425
Date Collected: 09/28/22 14:35
Date Received: 10/03/22 12:30

Basis: NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	32.1	ug/L	0.50	0.09	1	10/11/22 11:21	10/07/22	
Cobalt	200.8	1.38	ug/L	0.020	0.009	1	10/11/22 11:21	10/07/22	
Iron	200.8	2600	ug/L	4.0	0.3	1	10/11/22 11:21	10/07/22	
Lithium	200.8	231	ug/L	0.10	0.20	1	10/11/22 11:21	10/07/22	
Manganese	200.8	1060	ug/L	0.20	0.04	1	10/11/22 11:21	10/07/22	
Molybdenum	200.8	830	ug/L	0.10	0.03	1	10/11/22 11:21	10/07/22	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-12
Lab Code: K2211425-003

Service Request: K2211425
Date Collected: 09/28/22 14:20
Date Received: 10/03/22 12:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	6.78	ug/L	0.50	0.09	1	10/11/22 12:03	10/07/22	
Cobalt	200.8	0.819	ug/L	0.020	0.009	1	10/11/22 12:03	10/07/22	
Iron	200.8	1580	ug/L	4.0	0.3	1	10/11/22 12:03	10/07/22	
Lithium	200.8	78.0	ug/L	0.10	0.20	1	10/11/22 12:03	10/07/22	
Manganese	200.8	639	ug/L	0.20	0.04	1	10/11/22 12:03	10/07/22	
Molybdenum	200.8	724	ug/L	0.10	0.03	1	10/11/22 12:03	10/07/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-12
Lab Code: K2211425-003

Service Request: K2211425
Date Collected: 09/28/22 14:20
Date Received: 10/03/22 12:30

Basis: NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	8.56	ug/L	0.50	0.09	1	10/11/22 11:26	10/07/22	
Cobalt	200.8	0.899	ug/L	0.020	0.009	1	10/11/22 11:26	10/07/22	
Iron	200.8	2190	ug/L	4.0	0.3	1	10/11/22 11:26	10/07/22	
Lithium	200.8	80.4	ug/L	0.10	0.20	1	10/11/22 11:26	10/07/22	
Manganese	200.8	652	ug/L	0.20	0.04	1	10/11/22 11:26	10/07/22	
Molybdenum	200.8	753	ug/L	0.10	0.03	1	10/11/22 11:26	10/07/22	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-4V
Lab Code: K2211425-004

Service Request: K2211425
Date Collected: 09/28/22 14:45
Date Received: 10/03/22 12:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.82	ug/L	0.50	0.09	1	10/11/22 12:43	10/07/22	
Cobalt	200.8	7.85	ug/L	0.020	0.009	1	10/11/22 12:43	10/07/22	
Iron	200.8	1360	ug/L	4.0	0.3	1	10/11/22 12:43	10/07/22	
Lithium	200.8	143	ug/L	0.10	0.20	1	10/11/22 12:43	10/07/22	
Manganese	200.8	2440	ug/L	0.20	0.04	1	10/11/22 12:43	10/07/22	
Molybdenum	200.8	30.5	ug/L	0.10	0.03	1	10/11/22 12:43	10/07/22	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-4V
Lab Code: K2211425-004

Service Request: K2211425
Date Collected: 09/28/22 14:45
Date Received: 10/03/22 12:30

Basis: NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	2.30	ug/L	0.50	0.09	1	10/11/22 11:28	10/07/22	
Cobalt	200.8	8.18	ug/L	0.020	0.009	1	10/11/22 11:28	10/07/22	
Iron	200.8	2010	ug/L	4.0	0.3	1	10/11/22 11:28	10/07/22	
Lithium	200.8	144	ug/L	0.10	0.20	1	10/11/22 11:28	10/07/22	
Manganese	200.8	2600	ug/L	0.20	0.04	1	10/11/22 11:28	10/07/22	
Molybdenum	200.8	32.4	ug/L	0.10	0.03	1	10/11/22 11:28	10/07/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-6V
Lab Code: K2211425-005

Service Request: K2211425
Date Collected: 09/28/22 14:50
Date Received: 10/03/22 12:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.61	ug/L	0.50	0.09	1	10/11/22 12:45	10/07/22	
Cobalt	200.8	0.690	ug/L	0.020	0.009	1	10/11/22 12:45	10/07/22	
Iron	200.8	9.6	ug/L	4.0	0.3	1	10/11/22 12:45	10/07/22	
Lithium	200.8	91.3	ug/L	0.10	0.20	1	10/11/22 12:45	10/07/22	
Manganese	200.8	619	ug/L	0.20	0.04	1	10/11/22 12:45	10/07/22	
Molybdenum	200.8	6.47	ug/L	0.10	0.03	1	10/11/22 12:45	10/07/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-6V
Lab Code: K2211425-005

Service Request: K2211425
Date Collected: 09/28/22 14:50
Date Received: 10/03/22 12:30

Basis: NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.73	ug/L	0.50	0.09	1	10/11/22 11:52	10/07/22	
Cobalt	200.8	0.695	ug/L	0.020	0.009	1	10/11/22 11:52	10/07/22	
Iron	200.8	144	ug/L	4.0	0.3	1	10/11/22 11:52	10/07/22	
Lithium	200.8	94.3	ug/L	0.10	0.20	1	10/11/22 11:52	10/07/22	
Manganese	200.8	632	ug/L	0.20	0.04	1	10/11/22 11:52	10/07/22	
Molybdenum	200.8	6.71	ug/L	0.10	0.03	1	10/11/22 11:52	10/07/22	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-3D
Lab Code: K2211425-006

Service Request: K2211425
Date Collected: 09/28/22 14:55
Date Received: 10/03/22 12:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	8.37	ug/L	0.50	0.09	1	10/11/22 12:47	10/07/22	
Cobalt	200.8	3.27	ug/L	0.020	0.009	1	10/11/22 12:47	10/07/22	
Iron	200.8	1690	ug/L	4.0	0.3	1	10/11/22 12:47	10/07/22	
Lithium	200.8	86.7	ug/L	0.10	0.20	1	10/11/22 12:47	10/07/22	
Manganese	200.8	1180	ug/L	0.20	0.04	1	10/11/22 12:47	10/07/22	
Molybdenum	200.8	24.3	ug/L	0.10	0.03	1	10/11/22 12:47	10/07/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-3D
Lab Code: K2211425-006

Service Request: K2211425
Date Collected: 09/28/22 14:55
Date Received: 10/03/22 12:30

Basis: NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	10.8	ug/L	0.50	0.09	1	10/11/22 11:54	10/07/22	
Cobalt	200.8	3.38	ug/L	0.020	0.009	1	10/11/22 11:54	10/07/22	
Iron	200.8	2290	ug/L	4.0	0.3	1	10/11/22 11:54	10/07/22	
Lithium	200.8	88.5	ug/L	0.10	0.20	1	10/11/22 11:54	10/07/22	
Manganese	200.8	1200	ug/L	0.20	0.04	1	10/11/22 11:54	10/07/22	
Molybdenum	200.8	24.6	ug/L	0.10	0.03	1	10/11/22 11:54	10/07/22	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-3D-DUP
Lab Code: K2211425-007

Service Request: K2211425
Date Collected: 09/28/22 14:56
Date Received: 10/03/22 12:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	8.41	ug/L	0.50	0.09	1	10/11/22 12:49	10/07/22	
Cobalt	200.8	3.37	ug/L	0.020	0.009	1	10/11/22 12:49	10/07/22	
Iron	200.8	1700	ug/L	4.0	0.3	1	10/11/22 12:49	10/07/22	
Lithium	200.8	88.7	ug/L	0.10	0.20	1	10/11/22 12:49	10/07/22	
Manganese	200.8	1190	ug/L	0.20	0.04	1	10/11/22 12:49	10/07/22	
Molybdenum	200.8	24.3	ug/L	0.10	0.03	1	10/11/22 12:49	10/07/22	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-MW-3D-DUP
Lab Code: K2211425-007

Service Request: K2211425
Date Collected: 09/28/22 14:56
Date Received: 10/03/22 12:30

Basis: NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	10.9	ug/L	0.50	0.09	1	10/11/22 11:55	10/07/22	
Cobalt	200.8	3.30	ug/L	0.020	0.009	1	10/11/22 11:55	10/07/22	
Iron	200.8	2340	ug/L	4.0	0.3	1	10/11/22 11:55	10/07/22	
Lithium	200.8	88.3	ug/L	0.10	0.20	1	10/11/22 11:55	10/07/22	
Manganese	200.8	1220	ug/L	0.20	0.04	1	10/11/22 11:55	10/07/22	
Molybdenum	200.8	24.2	ug/L	0.10	0.03	1	10/11/22 11:55	10/07/22	



QC Summary Forms

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Metals

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ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2217114-01

Service Request: K2211425
Date Collected: NA
Date Received: NA
Basis: NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	10/11/22 11:12	10/07/22	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	10/11/22 11:12	10/07/22	
Iron	200.8	ND U	ug/L	4.0	0.3	1	10/11/22 11:12	10/07/22	
Lithium	200.8	ND U	ug/L	0.10	0.20	1	10/11/22 11:12	10/07/22	
Manganese	200.8	ND U	ug/L	0.20	0.04	1	10/11/22 11:12	10/07/22	
Molybdenum	200.8	ND U	ug/L	0.10	0.03	1	10/11/22 11:12	10/07/22	

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2211425
Date Collected: 09/28/22
Date Received: 10/03/22
Date Analyzed: 10/11/22
Date Extracted: 10/7/22

Matrix Spike Summary
Total Metals

Sample Name: MR-AP-MW-2
Lab Code: K2211425-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2217114-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6.97	53.4	50.0	93	70-130
Cobalt	55.2	77.7	25.0	90	70-130
Iron	182000	184000	50	3690 #	70-130
Lithium	193	232	50.0	76	70-130
Manganese	3500	3450	25.0	-165 #	70-130
Molybdenum	2.73	28.7	25.0	104	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2211425
Date Collected: 09/28/22
Date Received: 10/03/22
Date Analyzed: 10/11/22
Date Extracted: 10/7/22

Matrix Spike Summary
Total Metals

Sample Name: MR-AP-MW-10
Lab Code: K2211425-002
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2217114-06

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	32.1	81.1	50.0	98	70-130
Cobalt	1.38	25.8	25.0	98	70-130
Iron	2600	2590	50.0	-11 #	70-130
Lithium	231	291	50.0	120 #	70-130
Manganese	1060	1100	25.0	147 #	70-130
Molybdenum	830	870	25.0	162 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2211425
Date Collected: 09/28/22
Date Received: 10/03/22
Date Analyzed: 10/11/22

Replicate Sample Summary

Total Metals

Sample Name: MR-AP-MW-2
Lab Code: K2211425-001

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
					KQ2217114-03 Result			
Arsenic	200.8	0.50	0.09	6.97	6.89	6.93	1	20
Cobalt	200.8	0.020	0.009	55.2	55.8	55.5	1	20
Iron	200.8	200	20	182000	181000	182000	<1	20
Lithium	200.8	0.10	0.20	193	191	192	1	20
Manganese	200.8	0.20	0.04	3500	3460	3480	1	20
Molybdenum	200.8	0.10	0.03	2.73	2.82	2.78	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2211425
Date Collected: 09/28/22
Date Received: 10/03/22
Date Analyzed: 10/11/22

Replicate Sample Summary

Total Metals

Sample Name: MR-AP-MW-10
Lab Code: K2211425-002

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
					KQ2217114-05 Result			
Arsenic	200.8	0.50	0.09	32.1	32.8	32.5	2	20
Cobalt	200.8	0.020	0.009	1.38	1.41	1.40	2	20
Iron	200.8	4.0	0.3	2600	2570	2590	1	20
Lithium	200.8	0.10	0.20	231	237	234	3	20
Manganese	200.8	0.20	0.04	1060	1070	1070	<1	20
Molybdenum	200.8	0.10	0.03	830	836	833	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller Treatability/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2211425
Date Analyzed: 10/11/22

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2217114-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	47.3	50.0	95	85-115
Cobalt	200.8	24.1	25.0	96	85-115
Iron	200.8	48.6	50.0	97	85-115
Lithium	200.8	49.7	50.0	99	85-115
Manganese	200.8	24.5	25.0	98	85-115
Molybdenum	200.8	24.2	25.0	97	85-115



January 06, 2023

Service Request No:K2215301

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory December 29, 2022
For your reference, these analyses have been assigned our service request number **K2215301**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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Narrative Documents

ALS Environmental—Kelso Laboratory
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Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2215301
Date Received: 12/29/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Sixteen water samples were received for analysis at ALS Environmental on 12/29/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____

Date 01/06/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-2-FS	Lab ID: K2215301-001
---------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	57.3		0.018	0.040	ug/L	200.8
Iron, Dissolved	371000		60	400	ug/L	200.8
Lithium, Dissolved	193		0.2	2.0	ug/L	200.8
Manganese, Dissolved	4090		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-FS-DUP	Lab ID: K2215301-002
-------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	57.8		0.018	0.040	ug/L	200.8
Iron, Dissolved	358000		60	400	ug/L	200.8
Lithium, Dissolved	200		0.2	2.0	ug/L	200.8
Manganese, Dissolved	4090		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-FC	Lab ID: K2215301-003
---------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	56.7		0.018	0.040	ug/L	200.8
Iron, Dissolved	341000		60	400	ug/L	200.8
Lithium, Dissolved	201		0.2	2.0	ug/L	200.8
Manganese, Dissolved	3470		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-FC-pH-5	Lab ID: K2215301-004
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	55.2		0.018	0.040	ug/L	200.8
Iron, Dissolved	173000		60	400	ug/L	200.8
Lithium, Dissolved	195		0.2	2.0	ug/L	200.8
Manganese, Dissolved	3560		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-FB	Lab ID: K2215301-005
---------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	1.94		0.018	0.040	ug/L	200.8
Iron, Dissolved	18900		0.6	4.0	ug/L	200.8
Lithium, Dissolved	164		0.2	2.0	ug/L	200.8
Manganese, Dissolved	2800		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-PM	Lab ID: K2215301-006
---------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	20.7		0.018	0.040	ug/L	200.8
Iron, Dissolved	3180		0.6	4.0	ug/L	200.8
Lithium, Dissolved	199		0.2	2.0	ug/L	200.8
Manganese, Dissolved	68600		8	100	ug/L	200.8

CLIENT ID: MR-BT-MW-2-FS-Mn-PM	Lab ID: K2215301-007
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	57.2		0.018	0.040	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-2-FS-Mn-PM	Lab ID: K2215301-007
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	193000		60	400	ug/L	200.8
Lithium, Dissolved	186		0.2	2.0	ug/L	200.8
Manganese, Dissolved	99600		8	100	ug/L	200.8

CLIENT ID: MR-BT-MW-2-FC-Mn-PM	Lab ID: K2215301-009
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	31.0		0.018	0.040	ug/L	200.8
Iron, Dissolved	69900		0.6	4.0	ug/L	200.8
Lithium, Dissolved	189		0.2	2.0	ug/L	200.8
Manganese, Dissolved	97600		8	100	ug/L	200.8

CLIENT ID: MR-BT-MW-2-BC	Lab ID: K2215301-011
---------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	55.7		0.018	0.040	ug/L	200.8
Iron, Dissolved	179000		60	400	ug/L	200.8
Lithium, Dissolved	192		0.2	2.0	ug/L	200.8
Manganese, Dissolved	3550		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-GHT	Lab ID: K2215301-012
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.065		0.018	0.040	ug/L	200.8
Iron, Dissolved	21.4		0.6	4.0	ug/L	200.8
Lithium, Dissolved	33.7		0.2	2.0	ug/L	200.8
Manganese, Dissolved	159		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-HT-pH-9.5	Lab ID: K2215301-013
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.065		0.018	0.040	ug/L	200.8
Iron, Dissolved	11.8		0.6	4.0	ug/L	200.8
Lithium, Dissolved	120		0.2	2.0	ug/L	200.8
Manganese, Dissolved	176		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-AIR	Lab ID: K2215301-015
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	56.8		0.018	0.040	ug/L	200.8
Iron, Dissolved	165000		60	400	ug/L	200.8
Lithium, Dissolved	192		0.2	2.0	ug/L	200.8
Manganese, Dissolved	3630		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-CNTL	Lab ID: K2215301-016
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	57.0		0.018	0.040	ug/L	200.8
Iron, Dissolved	162000		60	400	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-2-CNTL Lab ID: K2215301-016

Analyte	Results	Flag	MDL	MRL	Units	Method
Lithium, Dissolved	193		0.2	2.0	ug/L	200.8
Manganese, Dissolved	3560		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-FS-Mn-PM-pH-9.5 Lab ID: K2215301-008

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	23.9		0.6	4.0	ug/L	200.8
Lithium, Dissolved	178		0.2	2.0	ug/L	200.8
Manganese, Dissolved	10.1		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-FC-Mn-PM-Ph-9.5 Lab ID: K2215301-010

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	13.0		0.6	4.0	ug/L	200.8
Lithium, Dissolved	174		0.2	2.0	ug/L	200.8
Manganese, Dissolved	7.0		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-2-HT-MMO-pH-9.5 Lab ID: K2215301-014

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	19.3		0.6	4.0	ug/L	200.8
Lithium, Dissolved	16.3		0.2	2.0	ug/L	200.8
Manganese, Dissolved	19.2		0.08	1.0	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05

Service Request:K2215301

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2215301-001	MR-BT-MW-2-FS	12/27/2022	1000
K2215301-002	MR-BT-MW-2-FS-DUP	12/27/2022	1005
K2215301-003	MR-BT-MW-2-FC	12/27/2022	1010
K2215301-004	MR-BT-MW-2-FC-pH-5	12/27/2022	1015
K2215301-005	MR-BT-MW-2-FB	12/27/2022	1020
K2215301-006	MR-BT-MW-2-PM	12/27/2022	1025
K2215301-007	MR-BT-MW-2-FS-Mn-PM	12/27/2022	1030
K2215301-008	MR-BT-MW-2-FS-Mn-PM-pH-9.5	12/27/2022	1035
K2215301-009	MR-BT-MW-2-FC-Mn-PM	12/27/2022	1040
K2215301-010	MR-BT-MW-2-FC-Mn-PM-Ph-9.5	12/27/2022	1045
K2215301-011	MR-BT-MW-2-BC	12/27/2022	1050
K2215301-012	MR-BT-MW-2-GHT	12/27/2022	1055
K2215301-013	MR-BT-MW-2-HT-pH-9.5	12/27/2022	1100
K2215301-014	MR-BT-MW-2-HT-MMO-pH-9.5	12/27/2022	1105
K2215301-015	MR-BT-MW-2-AIR	12/27/2022	1110
K2215301-016	MR-BT-MW-2-CNTL	12/27/2022	1115

PM *Mark*

Cooler Receipt and Preservation Form

Client Anchor

Service Request K22 15301

Received: 12-29-22

Opened: 12-29-22

By: VM

Unloaded: 12-29-22

By: VM

Samples were received via? **USPS** *Fed Ex* *UPS* *DHL* *PDX* Courier *Hand Delivered*

Samples were received in: (circle) Cooler *Box* *Envelope* *Other* *NA*

Were custody seals on coolers? *NA* *Y* N If yes, how many and where? _____

If present, were custody seals intact? *Y* *N* If present, were they signed and dated? *Y* *N*

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
4.4		IR 02					

Was a Temperature Blank present in cooler? *NA* Y *N* If yes, notate the temperature in the appropriate column above:

If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

Were samples received within the method specified temperature ranges? *NA* Y *N*

If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA *Y* *N*

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

Packing material: *Inserts* Baggies *Bubble Wrap* *Gel Packs* Wet Ice *Dry Ice* *Sleeves*

Were custody papers properly filled out (ink, signed, etc.)? *NA* Y *N*

Were samples received in good condition (unbroken) *NA* Y *N*

Were all sample labels complete (ie, analysis, preservation, etc.)? *NA* Y *N*

3. Did all sample labels and tags agree with custody papers? *NA* Y *N*

1. Were appropriate bottles/containers and volumes received for the tests indicated? *NA* Y *N*

2. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below *NA* Y *N*

3. Were VOA vials received without headspace? Indicate in the table below NA *Y* *N*

4. Was C12/Res negative? NA *Y* *N*

5. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA *Y* *N*

6. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA *Y* *N* Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05

Service Request: K2215301

Sample Name: MR-BT-MW-2-FS
Lab Code: K2215301-001
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-FS-DUP
Lab Code: K2215301-002
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-FC
Lab Code: K2215301-003
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-FC-pH-5
Lab Code: K2215301-004
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-FB
Lab Code: K2215301-005
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05

Service Request: K2215301

Sample Name: MR-BT-MW-2-PM
Lab Code: K2215301-006
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-FS-Mn-PM
Lab Code: K2215301-007
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-FS-Mn-PM-pH-9.5
Lab Code: K2215301-008
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-FC-Mn-PM
Lab Code: K2215301-009
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-FC-Mn-PM-Ph-9.5
Lab Code: K2215301-010
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05

Service Request: K2215301

Sample Name: MR-BT-MW-2-BC
Lab Code: K2215301-011
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-GHT
Lab Code: K2215301-012
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-HT-pH-9.5
Lab Code: K2215301-013
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-HT-MMO-pH-9.5
Lab Code: K2215301-014
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-BT-MW-2-AIR
Lab Code: K2215301-015
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05

Service Request: K2215301

Sample Name: MR-BT-MW-2-CNTL
Lab Code: K2215301-016
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-FS
Lab Code: K2215301-001

Service Request: K2215301
Date Collected: 12/27/22 10:00
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	57.3	ug/L	0.040	0.018	1	01/05/23 14:20	01/04/23	
Iron	200.8	371000	ug/L	400	60	100	01/05/23 15:32	01/04/23	
Lithium	200.8	193	ug/L	2.0	0.2	1	01/05/23 14:20	01/04/23	
Manganese	200.8	4090	ug/L	1.0	0.08	1	01/05/23 14:20	01/04/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-FS-DUP
Lab Code: K2215301-002

Service Request: K2215301
Date Collected: 12/27/22 10:05
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	57.8	ug/L	0.040	0.018	1	01/05/23 14:25	01/04/23	
Iron	200.8	358000	ug/L	400	60	100	01/05/23 15:37	01/04/23	
Lithium	200.8	200	ug/L	2.0	0.2	1	01/05/23 14:25	01/04/23	
Manganese	200.8	4090	ug/L	1.0	0.08	1	01/05/23 14:25	01/04/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-FC
Lab Code: K2215301-003

Service Request: K2215301
Date Collected: 12/27/22 10:10
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	56.7	ug/L	0.040	0.018	1	01/05/23 14:30	01/04/23	
Iron	200.8	341000	ug/L	400	60	100	01/05/23 15:42	01/04/23	
Lithium	200.8	201	ug/L	2.0	0.2	1	01/05/23 14:30	01/04/23	
Manganese	200.8	3470	ug/L	1.0	0.08	1	01/05/23 14:30	01/04/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-FC-pH-5
Lab Code: K2215301-004

Service Request: K2215301
Date Collected: 12/27/22 10:15
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	55.2	ug/L	0.040	0.018	1	01/05/23 14:31	01/04/23	
Iron	200.8	173000	ug/L	400	60	100	01/05/23 15:47	01/04/23	
Lithium	200.8	195	ug/L	2.0	0.2	1	01/05/23 14:31	01/04/23	
Manganese	200.8	3560	ug/L	1.0	0.08	1	01/05/23 14:31	01/04/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-FB
Lab Code: K2215301-005

Service Request: K2215301
Date Collected: 12/27/22 10:20
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	1.94	ug/L	0.040	0.018	1	01/05/23 14:40	01/04/23	
Iron	200.8	18900	ug/L	4.0	0.6	1	01/05/23 14:40	01/04/23	
Lithium	200.8	164	ug/L	2.0	0.2	1	01/05/23 14:40	01/04/23	
Manganese	200.8	2800	ug/L	1.0	0.08	1	01/05/23 14:40	01/04/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-PM
Lab Code: K2215301-006

Service Request: K2215301
Date Collected: 12/27/22 10:25
Date Received: 12/29/22 12:05

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	20.7	ug/L	0.040	0.018	1	01/05/23 14:41	01/04/23	
Iron	200.8	3180	ug/L	4.0	0.6	1	01/05/23 14:41	01/04/23	
Lithium	200.8	199	ug/L	2.0	0.2	1	01/05/23 14:41	01/04/23	
Manganese	200.8	68600	ug/L	100	8	100	01/05/23 15:49	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-FS-Mn-PM
Lab Code: K2215301-007

Service Request: K2215301
Date Collected: 12/27/22 10:30
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	57.2	ug/L	0.040	0.018	1	01/05/23 14:43	01/04/23	
Iron	200.8	193000	ug/L	400	60	100	01/05/23 15:51	01/04/23	
Lithium	200.8	186	ug/L	2.0	0.2	1	01/05/23 14:43	01/04/23	
Manganese	200.8	99600	ug/L	100	8	100	01/05/23 15:51	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water

Service Request: K2215301
Date Collected: 12/27/22 10:35
Date Received: 12/29/22 12:05

Sample Name: MR-BT-MW-2-FS-Mn-PM-pH-9.5
Lab Code: K2215301-008

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	ND U	ug/L	0.040	0.018	1	01/05/23 14:44	01/04/23	
Iron	200.8	23.9	ug/L	4.0	0.6	1	01/05/23 14:44	01/04/23	
Lithium	200.8	178	ug/L	2.0	0.2	1	01/05/23 14:44	01/04/23	
Manganese	200.8	10.1	ug/L	1.0	0.08	1	01/05/23 14:44	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-FC-Mn-PM
Lab Code: K2215301-009

Service Request: K2215301
Date Collected: 12/27/22 10:40
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	31.0	ug/L	0.040	0.018	1	01/05/23 14:46	01/04/23	
Iron	200.8	69900	ug/L	4.0	0.6	1	01/05/23 14:46	01/04/23	
Lithium	200.8	189	ug/L	2.0	0.2	1	01/05/23 14:46	01/04/23	
Manganese	200.8	97600	ug/L	100	8	100	01/05/23 15:52	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water

Service Request: K2215301
Date Collected: 12/27/22 10:45
Date Received: 12/29/22 12:05

Sample Name: MR-BT-MW-2-FC-Mn-PM-Ph-9.5
Lab Code: K2215301-010

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	ND U	ug/L	0.040	0.018	1	01/05/23 14:48	01/04/23	
Iron	200.8	13.0	ug/L	4.0	0.6	1	01/05/23 14:48	01/04/23	
Lithium	200.8	174	ug/L	2.0	0.2	1	01/05/23 14:48	01/04/23	
Manganese	200.8	7.0	ug/L	1.0	0.08	1	01/05/23 14:48	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-BC
Lab Code: K2215301-011

Service Request: K2215301
Date Collected: 12/27/22 10:50
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	55.7	ug/L	0.040	0.018	1	01/05/23 14:49	01/04/23	
Iron	200.8	179000	ug/L	400	60	100	01/05/23 15:54	01/04/23	
Lithium	200.8	192	ug/L	2.0	0.2	1	01/05/23 14:49	01/04/23	
Manganese	200.8	3550	ug/L	1.0	0.08	1	01/05/23 14:49	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-GHT
Lab Code: K2215301-012

Service Request: K2215301
Date Collected: 12/27/22 10:55
Date Received: 12/29/22 12:05

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.065	ug/L	0.040	0.018	1	01/05/23 14:51	01/04/23	
Iron	200.8	21.4	ug/L	4.0	0.6	1	01/05/23 14:51	01/04/23	
Lithium	200.8	33.7	ug/L	2.0	0.2	1	01/05/23 14:51	01/04/23	
Manganese	200.8	159	ug/L	1.0	0.08	1	01/05/23 14:51	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-HT-pH-9.5
Lab Code: K2215301-013

Service Request: K2215301
Date Collected: 12/27/22 11:00
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.065	ug/L	0.040	0.018	1	01/05/23 14:53	01/04/23	
Iron	200.8	11.8	ug/L	4.0	0.6	1	01/05/23 14:53	01/04/23	
Lithium	200.8	120	ug/L	2.0	0.2	1	01/05/23 14:53	01/04/23	
Manganese	200.8	176	ug/L	1.0	0.08	1	01/05/23 14:53	01/04/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water

Service Request: K2215301
Date Collected: 12/27/22 11:05
Date Received: 12/29/22 12:05

Sample Name: MR-BT-MW-2-HT-MMO-pH-9.5
Lab Code: K2215301-014

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	ND U	ug/L	0.040	0.018	1	01/05/23 14:54	01/04/23	
Iron	200.8	19.3	ug/L	4.0	0.6	1	01/05/23 14:54	01/04/23	
Lithium	200.8	16.3	ug/L	2.0	0.2	1	01/05/23 14:54	01/04/23	
Manganese	200.8	19.2	ug/L	1.0	0.08	1	01/05/23 14:54	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-AIR
Lab Code: K2215301-015

Service Request: K2215301
Date Collected: 12/27/22 11:10
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	56.8	ug/L	0.040	0.018	1	01/05/23 15:08	01/04/23	
Iron	200.8	165000	ug/L	400	60	100	01/05/23 15:55	01/04/23	
Lithium	200.8	192	ug/L	2.0	0.2	1	01/05/23 15:08	01/04/23	
Manganese	200.8	3630	ug/L	1.0	0.08	1	01/05/23 15:08	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-2-CNTL
Lab Code: K2215301-016

Service Request: K2215301
Date Collected: 12/27/22 11:15
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	57.0	ug/L	0.040	0.018	1	01/05/23 15:10	01/04/23	
Iron	200.8	162000	ug/L	400	60	100	01/05/23 15:57	01/04/23	
Lithium	200.8	193	ug/L	2.0	0.2	1	01/05/23 15:10	01/04/23	
Manganese	200.8	3560	ug/L	1.0	0.08	1	01/05/23 15:10	01/04/23	



QC Summary Forms

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2222983-01

Service Request: K2215301
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	01/05/23 14:17	01/04/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	01/05/23 14:17	01/04/23	
Lithium	200.8	ND U	ug/L	1.0	0.1	1	01/05/23 14:17	01/04/23	
Manganese	200.8	ND U	ug/L	0.50	0.04	1	01/05/23 14:17	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water

Service Request: K2215301
Date Collected: 12/27/22
Date Received: 12/29/22
Date Analyzed: 01/5/23
Date Extracted: 01/4/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-2-FS
Lab Code: K2215301-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2222983-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Cobalt	57.3	102	50.0	90	70-130
Iron	371000	408000	100	36721 #	70-130
Lithium	190	22200	20000	110	70-130
Manganese	4090	4140	50.0	115 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water

Service Request: K2215301
Date Collected: 12/27/22
Date Received: 12/29/22
Date Analyzed: 01/5/23
Date Extracted: 01/4/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-2-FS-DUP
Lab Code: K2215301-002
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2222983-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Cobalt	57.8	109	50.0	102	70-130
Iron	358000	396000	100	38039 #	70-130
Lithium	200	22500	20000	111	70-130
Manganese	4090	4230	50.0	270 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water

Service Request: K2215301
Date Collected: 12/27/22
Date Received: 12/29/22
Date Analyzed: 01/05/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-BT-MW-2-FS
Lab Code: K2215301-001

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
					KQ2222983-04 Result			
Cobalt	200.8	0.040	0.018	57.3	57.7	57.5	<1	20
Iron	200.8	400	60	371000	375000	373000	1	20
Lithium	200.8	2.0	0.2	193	196	195	2	20
Manganese	200.8	1.0	0.08	4090	4180	4140	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water

Service Request: K2215301
Date Collected: 12/27/22
Date Received: 12/29/22
Date Analyzed: 01/05/23

Replicate Sample Summary

Dissolved Metals

Sample Name: MR-BT-MW-2-FS-DUP
Lab Code: K2215301-002

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2222983-06 Result, Average, RPD, RPD Limit. Rows include Cobalt, Iron, Lithium, and Manganese.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07-01 Task 05
Sample Matrix: Water

Service Request: K2215301
Date Analyzed: 01/05/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2222983-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cobalt	200.8	25.6	25.0	102	85-115
Iron	200.8	47.6	50.0	95	85-115
Lithium	200.8	10000	10000	100	85-115
Manganese	200.8	25.8	25.0	103	85-115



January 09, 2023

Service Request No:K2215304

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory December 29, 2022
For your reference, these analyses have been assigned our service request number **K2215304**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
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Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2215304
Date Received: 12/29/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Sixteen water samples were received for analysis at ALS Environmental on 12/29/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____

Date 01/09/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-3D-FC	Lab ID: K2215304-003
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.3	J	0.2	1.0	ug/L	200.8
Iron, Dissolved	47000		0.6	4.0	ug/L	200.8
Lithium, Dissolved	92.5		0.20	0.40	ug/L	200.8
Manganese, Dissolved	1350		0.08	1.4	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-FB	Lab ID: K2215304-005
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.3		0.2	1.0	ug/L	200.8
Iron, Dissolved	16.6		0.6	4.0	ug/L	200.8
Lithium, Dissolved	43.4		0.20	0.20	ug/L	200.8
Manganese, Dissolved	1.0	J	0.08	1.4	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-PM	Lab ID: K2215304-006
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	16.7		0.2	1.0	ug/L	200.8
Lithium, Dissolved	104		0.20	0.40	ug/L	200.8
Manganese, Dissolved	104000		20	200	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-FC-Mn-PM-pH-9.5	Lab ID: K2215304-010
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.3	J	0.2	1.0	ug/L	200.8
Iron, Dissolved	9.5		0.6	4.0	ug/L	200.8
Lithium, Dissolved	14.1		0.20	0.20	ug/L	200.8
Manganese, Dissolved	82.5		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-BC	Lab ID: K2215304-011
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	90.7		0.2	1.0	ug/L	200.8
Iron, Dissolved	2.8	J	0.6	4.0	ug/L	200.8
Lithium, Dissolved	91.6		0.20	0.20	ug/L	200.8
Manganese, Dissolved	1290		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-GHT	Lab ID: K2215304-012
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.8	J	0.2	1.0	ug/L	200.8
Iron, Dissolved	1.7	J	0.6	4.0	ug/L	200.8
Lithium, Dissolved	11.9		0.20	0.20	ug/L	200.8
Manganese, Dissolved	3.0		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-HT-pH-9.5	Lab ID: K2215304-013
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.6	J	0.2	1.0	ug/L	200.8
Iron, Dissolved	3.9	J	0.6	4.0	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-3D-HT-pH-9.5	Lab ID: K2215304-013
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Lithium, Dissolved	35.7		0.20	0.20	ug/L	200.8
Manganese, Dissolved	18.7		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-AIR	Lab ID: K2215304-015
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	98.0		0.2	1.0	ug/L	200.8
Iron, Dissolved	0.8	J	0.6	4.0	ug/L	200.8
Lithium, Dissolved	94.1		0.20	0.20	ug/L	200.8
Manganese, Dissolved	359		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-CNTL	Lab ID: K2215304-016
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	102		0.2	1.0	ug/L	200.8
Iron, Dissolved	1.3	J	0.6	4.0	ug/L	200.8
Lithium, Dissolved	91.9		0.20	0.20	ug/L	200.8
Manganese, Dissolved	1330		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-FS	Lab ID: K2215304-001
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	94300		60	400	ug/L	200.8
Lithium, Dissolved	100		0.20	0.40	ug/L	200.8
Manganese, Dissolved	1830		0.08	1.4	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-FS-DUP	Lab ID: K2215304-002
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	101000		60	400	ug/L	200.8
Lithium, Dissolved	95.0		0.20	0.40	ug/L	200.8
Manganese, Dissolved	1870		0.08	1.4	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-FC-pH-5	Lab ID: K2215304-004
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	98.2		0.6	4.0	ug/L	200.8
Lithium, Dissolved	89.0		0.20	0.40	ug/L	200.8
Manganese, Dissolved	1280		0.08	1.4	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-FS-Mn-PM	Lab ID: K2215304-007
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	57800		0.6	4.0	ug/L	200.8
Lithium, Dissolved	84.7		0.20	0.20	ug/L	200.8
Manganese, Dissolved	788		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-FS-Mn-PM-pH-9.5	Lab ID: K2215304-008
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	8.8		0.6	4.0	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-3D-FS-Mn-PM-pH-9.5	Lab ID: K2215304-008
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Lithium, Dissolved	62.6		0.20	0.20	ug/L	200.8
Manganese, Dissolved	521		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-FC-Mn-PM	Lab ID: K2215304-009
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	9520		0.6	4.0	ug/L	200.8
Lithium, Dissolved	89.0		0.20	0.20	ug/L	200.8
Manganese, Dissolved	1030		0.08	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-3D-HT-MMO-pH-9.5	Lab ID: K2215304-014
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	2.0	J	0.6	4.0	ug/L	200.8
Lithium, Dissolved	1.11		0.20	0.20	ug/L	200.8
Manganese, Dissolved	0.9	J	0.08	1.0	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
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Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com


Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request:K2215304

SAMPLE CROSS-REFERENCE

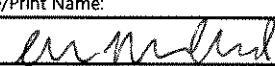
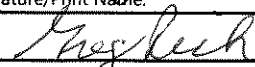
<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2215304-001	MR-BT-MW-3D-FS	12/27/2022	1120
K2215304-002	MR-BT-MW-3D-FS-DUP	12/27/2022	1125
K2215304-003	MR-BT-MW-3D-FC	12/27/2022	1130
K2215304-004	MR-BT-MW-3D-FC-pH-5	12/27/2022	1135
K2215304-005	MR-BT-MW-3D-FB	12/27/2022	1140
K2215304-006	MR-BT-MW-3D-PM	12/27/2022	1145
K2215304-007	MR-BT-MW-3D-FS-Mn-PM	12/27/2022	1150
K2215304-008	MR-BT-MW-3D-FS-Mn-PM-pH-9.5	12/27/2022	1155
K2215304-009	MR-BT-MW-3D-FC-Mn-PM	12/27/2022	1200
K2215304-010	MR-BT-MW-3D-FC-Mn-PM-pH-9.5	12/27/2022	1205
K2215304-011	MR-BT-MW-3D-BC	12/27/2022	1210
K2215304-012	MR-BT-MW-3D-GHT	12/27/2022	1215
K2215304-013	MR-BT-MW-3D-HT-pH-9.5	12/27/2022	1220
K2215304-014	MR-BT-MW-3D-HT-MMO-pH-9.5	12/27/2022	1225
K2215304-015	MR-BT-MW-3D-AIR	12/27/2022	1230
K2215304-016	MR-BT-MW-3D-CNTL	12/27/2022	1235

Chain of Custody Record & Laboratory Analysis Request

12215304


Laboratory Number: 503-972-5019					Parameters												ANCHOR QEA Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219 Comments/Preservation																																		
Date:	12/28/2022				No. of Containers	Dissolved Metals (Co, Li Fe, Mn)	Dissolved Metals (As, Li Fe, Mn)	Dissolved As																																											
Project Name:	Miller																																																		
Project Number:	221114-07.01 Task 05																																																		
Project Manager:	Masa Kanematsu																																																		
Phone Number:	503-972-5001 (backup number: 503-798-3456)																																																		
Shipment Method:	ALS Carrier																																																		
Line	Field Sample ID	Collection		Matrix																																															
		Date	Time																																																
1	MR-BT-MW-3D-FS	12/27/2022	11:20	Water																								1	X																						HNO3 preserved. Field Filtered.
2	MR-BT-MW-3D-FS-DUP	12/27/2022	11:25	Water																								1	X																						HNO3 preserved. Field Filtered.
3	MR-BT-MW-3D-FC	12/27/2022	11:30	Water																								1	X																						HNO3 preserved. Field Filtered.
4	MR-BT-MW-3D-FC-pH-5	12/27/2022	11:35	Water	1	X																						HNO3 preserved. Field Filtered.																							
5	MR-BT-MW-3D-FB	12/27/2022	11:40	Water	1	X																						HNO3 preserved. Field Filtered.																							
6	MR-BT-MW-3D-PM	12/27/2022	11:45	Water	1	X																						HNO3 preserved. Field Filtered. KMnO4 added																							
7	MR-BT-MW-3D-FS-Mn-PM	12/27/2022	11:50	Water	1	X																						HNO3 preserved. Field Filtered. KMnO4 added																							
8	MR-BT-MW-3D-FS-Mn-PM-pH-9.5	12/27/2022	11:55	Water	1	X																						HNO3 preserved. Field Filtered. KMnO4 added																							
9	MR-BT-MW-3D-FC-Mn-PM	12/27/2022	12:00	Water	1	X																						HNO3 preserved. Field Filtered. KMnO4 added																							
10	MR-BT-MW-3D-FC-Mn-PM-pH-9.5	12/27/2022	12:05	Water	1	X																						HNO3 preserved. Field Filtered. KMnO4 added																							
11	MR-BT-MW-3D-BC	12/27/2022	12:10	Water	1	X																						HNO3 preserved. Field Filtered.																							
12	MR-BT-MW-3D-GHT	12/27/2022	12:15	Water	1	X																						HNO3 preserved. Field Filtered.																							
13	MR-BT-MW-3D-HT-pH-9.5	12/27/2022	12:20	Water	1	X																						HNO3 preserved. Field Filtered.																							
14	MR-BT-MW-3D-HT-MMO-pH-9.5	12/27/2022	12:25	Water	1	X																						HNO3 preserved. Field Filtered. KMnO4 added																							
15	MR-BT-MW-3D-AIR	12/27/2022	12:30	Water	1	X																						HNO3 preserved. Field Filtered.																							
16	MR-BT-MW-3D-CNTL	12/27/2022	12:35	Water	1	X																						HNO3 preserved. Field Filtered.																							

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Some samples may have residual purple color associated with potassium permanganate (KMnO4). If those samples need to be diluted in order to not damage the ICP-MS, please do so and let Masa know the dilution factor.

Relinquished by:	Company:
Emma Nordlund	Anchor QEA
Signature/Print Name:	Date/Time: 12/29/22
	12/28/22 10:30 AM
Relinquished by:	Company:
Greg Rich	ALS
Signature/Print Name:	Date/Time:
	12-29-22 1200 PM

Received by:
Greg Rich
Signature/Print Name:
12-29-22
1045
Received by:
Josh McPherson
Signature/Print Name:
Josh McPherson ALS Kelso 12-29-22 1205

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM *Mark*

Cooler Receipt and Preservation Form

Client Anchar Service Request K22 15304
Received: 12-29-22 Opened: 12-29-22 By: VM Unloaded: 12-29-22 By: VM

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>4.4</u>		<u>IR02</u>					

- 4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

- 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.

i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2215304

Sample Name: MR-BT-MW-3D-FS
Lab Code: K2215304-001
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-FS
Lab Code: K2215304-001.R01
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-FS-DUP
Lab Code: K2215304-002
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-FS-DUP
Lab Code: K2215304-002.R01
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-FC
Lab Code: K2215304-003
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2215304

Sample Name: MR-BT-MW-3D-FC-pH-5
Lab Code: K2215304-004
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-FB
Lab Code: K2215304-005
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-FB
Lab Code: K2215304-005.R01
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-PM
Lab Code: K2215304-006
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-PM
Lab Code: K2215304-006.R01
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2215304

Sample Name: MR-BT-MW-3D-FS-Mn-PM
Lab Code: K2215304-007
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-FS-Mn-PM-pH-9.5
Lab Code: K2215304-008
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-FC-Mn-PM
Lab Code: K2215304-009
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-FC-Mn-PM-pH-9.5
Lab Code: K2215304-010
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-BC
Lab Code: K2215304-011
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2215304

Sample Name: MR-BT-MW-3D-GHT
Lab Code: K2215304-012
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-HT-pH-9.5
Lab Code: K2215304-013
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-HT-MMO-pH-9.5
Lab Code: K2215304-014
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-AIR
Lab Code: K2215304-015
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN

Sample Name: MR-BT-MW-3D-CNTL
Lab Code: K2215304-016
Sample Matrix: Water

Date Collected: 12/27/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-FS
Lab Code: K2215304-001

Service Request: K2215304
Date Collected: 12/27/22 11:20
Date Received: 12/29/22 12:05

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	1.0	0.2	1	01/06/23 10:22	01/04/23	
Iron	200.8	94300	ug/L	400	60	100	01/06/23 12:12	01/04/23	
Lithium	200.8	100	ug/L	0.40	0.20	1	01/06/23 10:22	01/04/23	
Manganese	200.8	1830	ug/L	1.4	0.08	1	01/06/23 10:22	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-FS-DUP
Lab Code: K2215304-002

Service Request: K2215304
Date Collected: 12/27/22 11:25
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	1.0	0.2	1	01/06/23 10:24	01/04/23	
Iron	200.8	101000	ug/L	400	60	100	01/06/23 12:14	01/04/23	
Lithium	200.8	95.0	ug/L	0.40	0.20	1	01/06/23 10:24	01/04/23	
Manganese	200.8	1870	ug/L	1.4	0.08	1	01/06/23 10:24	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-FC
Lab Code: K2215304-003

Service Request: K2215304
Date Collected: 12/27/22 11:30
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.3 J	ug/L	1.0	0.2	1	01/06/23 10:25	01/04/23	
Iron	200.8	47000	ug/L	4.0	0.6	1	01/06/23 10:25	01/04/23	
Lithium	200.8	92.5	ug/L	0.40	0.20	1	01/06/23 10:25	01/04/23	
Manganese	200.8	1350	ug/L	1.4	0.08	1	01/06/23 10:25	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-FC-pH-5
Lab Code: K2215304-004

Service Request: K2215304
Date Collected: 12/27/22 11:35
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	1.0	0.2	1	01/06/23 10:27	01/04/23	
Iron	200.8	98.2	ug/L	4.0	0.6	1	01/06/23 10:27	01/04/23	
Lithium	200.8	89.0	ug/L	0.40	0.20	1	01/06/23 10:27	01/04/23	
Manganese	200.8	1280	ug/L	1.4	0.08	1	01/06/23 10:27	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-FB
Lab Code: K2215304-005

Service Request: K2215304
Date Collected: 12/27/22 11:40
Date Received: 12/29/22 12:05

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	2.3	ug/L	1.0	0.2	1	01/06/23 10:28	01/04/23	
Iron	200.8	16.6	ug/L	4.0	0.6	1	01/06/23 10:28	01/04/23	
Lithium	200.8	43.4	ug/L	0.20	0.20	1	01/06/23 12:15	01/04/23	
Manganese	200.8	1.0 J	ug/L	1.4	0.08	1	01/06/23 10:28	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-PM
Lab Code: K2215304-006

Service Request: K2215304
Date Collected: 12/27/22 11:45
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	16.7	ug/L	1.0	0.2	1	01/06/23 10:33	01/04/23	
Iron	200.8	ND U	ug/L	4.0	0.6	1	01/06/23 10:33	01/04/23	
Lithium	200.8	104	ug/L	0.40	0.20	1	01/06/23 10:33	01/04/23	
Manganese	200.8	104000	ug/L	200	20	200	01/06/23 12:20	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-FS-Mn-PM
Lab Code: K2215304-007

Service Request: K2215304
Date Collected: 12/27/22 11:50
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	1.0	0.2	1	01/06/23 11:48	01/04/23	
Iron	200.8	57800	ug/L	4.0	0.6	1	01/06/23 11:48	01/04/23	
Lithium	200.8	84.7	ug/L	0.20	0.20	1	01/06/23 11:48	01/04/23	
Manganese	200.8	788	ug/L	1.0	0.08	1	01/06/23 11:48	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2215304
Date Collected: 12/27/22 11:55
Date Received: 12/29/22 12:05

Sample Name: MR-BT-MW-3D-FS-Mn-PM-pH-9.5
Lab Code: K2215304-008

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	1.0	0.2	1	01/06/23 11:52	01/04/23	
Iron	200.8	8.8	ug/L	4.0	0.6	1	01/06/23 11:52	01/04/23	
Lithium	200.8	62.6	ug/L	0.20	0.20	1	01/06/23 11:52	01/04/23	
Manganese	200.8	521	ug/L	1.0	0.08	1	01/06/23 11:52	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-FC-Mn-PM
Lab Code: K2215304-009

Service Request: K2215304
Date Collected: 12/27/22 12:00
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	1.0	0.2	1	01/06/23 11:54	01/04/23	
Iron	200.8	9520	ug/L	4.0	0.6	1	01/06/23 11:54	01/04/23	
Lithium	200.8	89.0	ug/L	0.20	0.20	1	01/06/23 11:54	01/04/23	
Manganese	200.8	1030	ug/L	1.0	0.08	1	01/06/23 11:54	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2215304
Date Collected: 12/27/22 12:05
Date Received: 12/29/22 12:05

Sample Name: MR-BT-MW-3D-FC-Mn-PM-pH-9.5
Lab Code: K2215304-010

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.3 J	ug/L	1.0	0.2	1	01/06/23 11:55	01/04/23	
Iron	200.8	9.5	ug/L	4.0	0.6	1	01/06/23 11:55	01/04/23	
Lithium	200.8	14.1	ug/L	0.20	0.20	1	01/06/23 11:55	01/04/23	
Manganese	200.8	82.5	ug/L	1.0	0.08	1	01/06/23 11:55	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-BC
Lab Code: K2215304-011

Service Request: K2215304
Date Collected: 12/27/22 12:10
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	90.7	ug/L	1.0	0.2	1	01/06/23 11:57	01/04/23	
Iron	200.8	2.8 J	ug/L	4.0	0.6	1	01/06/23 11:57	01/04/23	
Lithium	200.8	91.6	ug/L	0.20	0.20	1	01/06/23 11:57	01/04/23	
Manganese	200.8	1290	ug/L	1.0	0.08	1	01/06/23 11:57	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-GHT
Lab Code: K2215304-012

Service Request: K2215304
Date Collected: 12/27/22 12:15
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.8 J	ug/L	1.0	0.2	1	01/06/23 11:59	01/04/23	
Iron	200.8	1.7 J	ug/L	4.0	0.6	1	01/06/23 11:59	01/04/23	
Lithium	200.8	11.9	ug/L	0.20	0.20	1	01/06/23 11:59	01/04/23	
Manganese	200.8	3.0	ug/L	1.0	0.08	1	01/06/23 11:59	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-HT-pH-9.5
Lab Code: K2215304-013

Service Request: K2215304
Date Collected: 12/27/22 12:20
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.6 J	ug/L	1.0	0.2	1	01/06/23 12:00	01/04/23	
Iron	200.8	3.9 J	ug/L	4.0	0.6	1	01/06/23 12:00	01/04/23	
Lithium	200.8	35.7	ug/L	0.20	0.20	1	01/06/23 12:00	01/04/23	
Manganese	200.8	18.7	ug/L	1.0	0.08	1	01/06/23 12:00	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2215304
Date Collected: 12/27/22 12:25
Date Received: 12/29/22 12:05

Sample Name: MR-BT-MW-3D-HT-MMO-pH-9.5
Lab Code: K2215304-014

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	1.0	0.2	1	01/06/23 12:02	01/04/23	
Iron	200.8	2.0 J	ug/L	4.0	0.6	1	01/06/23 12:02	01/04/23	
Lithium	200.8	1.11	ug/L	0.20	0.20	1	01/06/23 12:02	01/04/23	
Manganese	200.8	0.9 J	ug/L	1.0	0.08	1	01/06/23 12:02	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-AIR
Lab Code: K2215304-015

Service Request: K2215304
Date Collected: 12/27/22 12:30
Date Received: 12/29/22 12:05
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	98.0	ug/L	1.0	0.2	1	01/06/23 12:06	01/04/23	
Iron	200.8	0.8 J	ug/L	4.0	0.6	1	01/06/23 12:06	01/04/23	
Lithium	200.8	94.1	ug/L	0.20	0.20	1	01/06/23 12:06	01/04/23	
Manganese	200.8	359	ug/L	1.0	0.08	1	01/06/23 12:06	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-3D-CNTL
Lab Code: K2215304-016

Service Request: K2215304
Date Collected: 12/27/22 12:35
Date Received: 12/29/22 12:05

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	102	ug/L	1.0	0.2	1	01/06/23 12:08	01/04/23	
Iron	200.8	1.3 J	ug/L	4.0	0.6	1	01/06/23 12:08	01/04/23	
Lithium	200.8	91.9	ug/L	0.20	0.20	1	01/06/23 12:08	01/04/23	
Manganese	200.8	1330	ug/L	1.0	0.08	1	01/06/23 12:08	01/04/23	



QC Summary Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2222991-05

Service Request: K2215304
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/06/23 10:19	01/04/23	
Iron	200.8	0.3 J	ug/L	2.0	0.3	1	01/06/23 10:19	01/04/23	
Lithium	200.8	ND U	ug/L	0.20	0.10	1	01/06/23 10:19	01/04/23	
Manganese	200.8	0.07 J	ug/L	0.70	0.04	1	01/06/23 10:19	01/04/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2215304
Date Collected: 12/27/22
Date Received: 12/29/22
Date Analyzed: 01/6/23
Date Extracted: 01/4/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-3D-FB
Lab Code: K2215304-005
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2222991-07

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	2.3	102	100	100	70-130
Iron	16.6	106	100	90	70-130
Lithium	43	22200	20000	111	70-130
Manganese	1.0 J	52.5	50.0	103	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2215304
Date Collected: 12/27/22
Date Received: 12/29/22
Date Analyzed: 01/6/23
Date Extracted: 01/4/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-3D-FS-Mn-PM
Lab Code: K2215304-007
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2222991-09

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	ND U	98.9	100	99	70-130
Iron	57800	57900	100	10 #	70-130
Lithium	85	20100	20000	100	70-130
Manganese	788	861	50.0	146 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2215304
Date Collected: 12/27/22
Date Received: 12/29/22
Date Analyzed: 01/06/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-BT-MW-3D-FB
Lab Code: K2215304-005

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate	Average	RPD	RPD Limit
					Sample KQ2222991-08 Result			
Arsenic	200.8	1.0	0.2	2.3	2.5	2.4	8	20
Iron	200.8	4.0	0.6	16.6	15.1	15.9	9	20
Lithium	200.8	0.20	0.20	43.4	43.1	43.3	<1	20
Manganese	200.8	1.4	0.08	1.0 J	0.8 J	0.9	22 #	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2215304
Date Collected: 12/27/22
Date Received: 12/29/22
Date Analyzed: 01/06/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-BT-MW-3D-FS-Mn-PM
Lab Code: K2215304-007

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2222991-10 Result, Average, RPD, RPD Limit. Rows include Arsenic, Iron, Lithium, and Manganese.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2215304
Date Analyzed: 01/06/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2222991-06

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	49.5	50	99	85-115
Iron	200.8	47.3	50	95	85-115
Lithium	200.8	9420	1000	94	85-115
Manganese	200.8	25.8	25	103	85-115



January 09, 2023

Service Request No:K2215310

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory December 29, 2022
For your reference, these analyses have been assigned our service request number **K2215310**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2215310
Date Received: 12/29/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 12/29/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The sample was stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Noel D. O'Connell

Approved by _____

Date 01/09/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-3D-As-Spike-20221220		Lab ID: K2215310-001				
Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	105		0.2	1.0	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

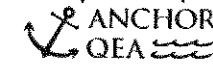
Service Request:K2215310

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2215310-001	MR-BT-MW-3D-As-Spike-20221220	12/20/2022	0800

Chain of Custody Record & Laboratory Analysis Request

K9215310

Laboratory Number: 503-972-5019					No. of Containers	Parameters										 ANCHOR QEA Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219							
Date:	12/28/2022					Dissolved Metals (Co, Li, Fe, Mn) Dissolved Metals (As, Li, Fe, Mn) Dissolved As																	
Project Name:	Miller																						
Project Number:	221114-07.01 Task 05																						
Project Manager:	Masa Kanematsu																						
Phone Number:	503-972-5001 (backup number: 503-798-3456)																						
Shipment Method:	ALS Carrier																						
Line	Field Sample ID	Collection		Matrix	No. of Containers	Parameters														Comments/Preservation			
		Date	Time			Dissolved Metals (Co, Li, Fe, Mn)	Dissolved Metals (As, Li, Fe, Mn)	Dissolved As															
1	MR-BT-MW-3D-As-Spike-20221220	12/20/2022	8:00	Water	1																HNO3 preserved. Field-filtered		
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Some samples may have residual purple color associated with potassium permanganate (KMnO4). If those samples need to be diluted in order to not damage the ICP-MS, please do so and let Masa know the dilution factor.

Relinquished by:	Company:
Emma Nordlund	Anchor QEA
Signature/Print Name:	Date/Time: 12/29/22
<i>Emma Nordlund</i>	12/28/22 10:30 AM
Relinquished by:	Company:
Greg Rich	ALS
Signature/Print Name:	Date/Time:
<i>Greg Rich</i>	12-29-22 1200 PM

Received by:
<i>Greg Rich</i>
Signature/Print Name: 12-29-22
<i>Greg Rich</i> 1045
Received by:
<i>[Signature]</i>
Signature/Print Name:
Josh McPherson ALS K050 12-29-22 1205

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM Black

Cooler Receipt and Preservation Form

Client Anchor

Service Request K22 15310

Received: 12-29-22

Opened: 12-29-22

By: NM

Unloaded: 12-29-22

By: NM

Samples were received via? **USPS** **Fed Ex** **UPS** **DHL** **PDX** Courier **Hand Delivered**

Samples were received in: (circle) Cooler **Box** **Envelope** **Other** **NA**

Were custody seals on coolers? **NA** **Y** N If yes, how many and where? _____

If present, were custody seals intact? **Y** **N** If present, were they signed and dated? **Y** **N**

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>4.4</u>		<u>IR202</u>					

Was a Temperature Blank present in cooler? **NA** Y **N** If yes, notate the temperature in the appropriate column above:

If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

Were samples received within the method specified temperature ranges? **NA** Y **N**

If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA **Y** **N**

Applicable, tissue samples were received: **Frozen** **Partially Thawed** **Thawed**

Packing material: **Inserts** Baggies **Bubble Wrap** **Gel Packs** Wet Ice **Dry Ice** **Sleeves**

Were custody papers properly filled out (ink, signed, etc.)? **NA** Y **N**

Were samples received in good condition (unbroken) **NA** Y **N**

Were all sample labels complete (ie, analysis, preservation, etc.)? **NA** Y **N**

0. Did all sample labels and tags agree with custody papers? **NA** Y **N**

1. Were appropriate bottles/containers and volumes received for the tests indicated? **NA** Y **N**

2. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below **NA** Y **N**

3. Were VOA vials received without headspace? Indicate in the table below NA **Y** **N**

4. Was C12/Res negative? NA **Y** **N**

5. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA **Y** **N**

6. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA **Y** **N** Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2215310

Sample Name: MR-BT-MW-3D-As-Spike-20221220
Lab Code: K2215310-001
Sample Matrix: Water

Date Collected: 12/20/22
Date Received: 12/29/22

Analysis Method
200.8

Extracted/Digested By
RMOORE

Analyzed By
JCHAN



Sample Results

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2215310
Date Collected: 12/20/22 08:00
Date Received: 12/29/22 12:05

Sample Name: MR-BT-MW-3D-As-Spike-20221220
Lab Code: K2215310-001

Basis: NA

Dissolved Metals

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Arsenic	200.8	105	ug/L	1.0	0.2	1	01/06/23 12:09	01/04/23	



QC Summary Forms

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2222991-05

Service Request: K2215310
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/06/23 10:19	01/04/23	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2215310

Date Analyzed: 01/06/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L

Basis:NA

Lab Control Sample

KQ2222991-06

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	49.5	50	99	85-115



January 17, 2023

Service Request No:K2300218

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory January 06, 2023
For your reference, these analyses have been assigned our service request number **K2300218**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

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Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2300218
Date Received: 01/06/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Sixteen water samples were received for analysis at ALS Environmental on 01/06/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____

Date 01/17/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-10-AIR	Lab ID: K2300218-001
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	12.9		0.09	0.50	ug/L	200.8
Iron, Dissolved	1.0	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	241		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1090		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	908		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-BC	Lab ID: K2300218-002
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	11.3		0.09	0.50	ug/L	200.8
Iron, Dissolved	2.5		0.3	2.0	ug/L	200.8
Lithium, Dissolved	228		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1060		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	853		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-CNTL	Lab ID: K2300218-003
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	11.8		0.09	0.50	ug/L	200.8
Iron, Dissolved	1.2	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	233		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1070		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	924		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-FB	Lab ID: K2300218-004
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.82		0.09	0.50	ug/L	200.8
Iron, Dissolved	11.0		0.3	2.0	ug/L	200.8
Lithium, Dissolved	165		0.10	0.10	ug/L	200.8
Manganese, Dissolved	5.34		0.04	0.20	ug/L	200.8
Molybdenum, Dissolved	1030		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-FC	Lab ID: K2300218-005
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.33	J	0.09	0.50	ug/L	200.8
Iron, Dissolved	77800		6	40	ug/L	200.8
Lithium, Dissolved	231		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1070		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	32.8		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-GHT	Lab ID: K2300218-013
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.17	J	0.09	0.50	ug/L	200.8
Iron, Dissolved	44.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	39.3		0.10	0.10	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-10-GHT	Lab ID: K2300218-013
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Analyte	Results	Flag	MDL	MRL	Units	Method
Manganese, Dissolved	2.88		0.04	0.20	ug/L	200.8
Molybdenum, Dissolved	691		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-HT-pH-9.5	Lab ID: K2300218-015
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.13	J	0.09	0.50	ug/L	200.8
Iron, Dissolved	1.1	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	37.4		0.10	0.10	ug/L	200.8
Manganese, Dissolved	160		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	840		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-PM	Lab ID: K2300218-016
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.70		0.09	0.50	ug/L	200.8
Lithium, Dissolved	225		0.10	0.10	ug/L	200.8
Manganese, Dissolved	77800		0.8	40	ug/L	200.8
Molybdenum, Dissolved	0.55		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-FC-Mn-PM	Lab ID: K2300218-006
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	15700		0.3	2.0	ug/L	200.8
Lithium, Dissolved	222		0.10	0.10	ug/L	200.8
Manganese, Dissolved	4050		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	0.07	J	0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-FC-Mn-PM-pH-9.5	Lab ID: K2300218-007
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	24.4		0.3	2.0	ug/L	200.8
Lithium, Dissolved	87.8		0.10	0.10	ug/L	200.8
Manganese, Dissolved	0.19	J	0.04	0.20	ug/L	200.8
Molybdenum, Dissolved	95.3		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-FC-pH-5	Lab ID: K2300218-008
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	22.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	229		0.10	0.10	ug/L	200.8
Manganese, Dissolved	949		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	25.7		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-FS	Lab ID: K2300218-009
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	146000		6	40	ug/L	200.8
Lithium, Dissolved	232		0.10	0.10	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-10-FS	Lab ID: K2300218-009
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Manganese, Dissolved	1580		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	1.20		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-FS-DUP	Lab ID: K2300218-010
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	141000		6	40	ug/L	200.8
Lithium, Dissolved	227		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1580		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	0.48		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-FS-Mn-PM	Lab ID: K2300218-011
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	88500		6	40	ug/L	200.8
Lithium, Dissolved	224		0.10	0.10	ug/L	200.8
Manganese, Dissolved	4530		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	0.09	J	0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-FS-Mn-PM-pH-9.5	Lab ID: K2300218-012
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	91.5		0.3	2.0	ug/L	200.8
Lithium, Dissolved	189		0.10	0.10	ug/L	200.8
Manganese, Dissolved	344		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	55.5		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-10-HT-MMO-pH-9.5	Lab ID: K2300218-014
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	26.1		0.3	2.0	ug/L	200.8
Lithium, Dissolved	8.32		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1800		0.04	1.0	ug/L	200.8
Molybdenum, Dissolved	16.2		0.03	0.10	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05


Service Request:K2300218

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2300218-001	MR-BT-MW-10-AIR	1/5/2023	0800
K2300218-002	MR-BT-MW-10-BC	1/5/2023	0805
K2300218-003	MR-BT-MW-10-CNTL	1/5/2023	0810
K2300218-004	MR-BT-MW-10-FB	1/5/2023	0815
K2300218-005	MR-BT-MW-10-FC	1/5/2023	0820
K2300218-006	MR-BT-MW-10-FC-Mn-PM	1/5/2023	0825
K2300218-007	MR-BT-MW-10-FC-Mn-PM-pH-9.5	1/5/2023	0830
K2300218-008	MR-BT-MW-10-FC-pH-5	1/5/2023	0835
K2300218-009	MR-BT-MW-10-FS	1/5/2023	0840
K2300218-010	MR-BT-MW-10-FS-DUP	1/5/2023	0845
K2300218-011	MR-BT-MW-10-FS-Mn-PM	1/5/2023	0850
K2300218-012	MR-BT-MW-10-FS-Mn-PM-pH-9.5	1/5/2023	0855
K2300218-013	MR-BT-MW-10-GHT	1/5/2023	0900
K2300218-014	MR-BT-MW-10-HT-MMO-pH-9.5	1/5/2023	0905
K2300218-015	MR-BT-MW-10-HT-pH-9.5	1/5/2023	0910
K2300218-016	MR-BT-MW-10-PM	1/5/2023	0915

W2300218

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: 503-972-5019					No. of Containers	Parameters										 Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219 Comments/Preservation					
Date:	1/6/2023					Dissolved Fe, Mn, Co, Li	Dissolved Fe, Mn, As, Li	Dissolved Fe, Mn, As, Li, Mo	Dissolved Fe, Mn, Li, Mo	Dissolved Fe, Mn, As, Co, Li, Mo	Dissolved As	Dissolved Co	Total Co								
Project Name:	Miller																				
Project Number:	221114-07.01 Task 05																				
Project Manager:	Masa Kanematsu																				
Phone Number:	503-972-5001 (backup number: 503-798-3456)																				
Shipment Method:	ALS Carrier																				
Line	Field Sample ID	Collection		Matrix																	
		Date	Time																		
1	MR-BT-MW-10-AIR	1/5/2022	8:00	Water		1			X												
2	MR-BT-MW-10-BC	1/5/2022	8:05	Water	1			X												HNO3 preserved. Field Filtered.	
3	MR-BT-MW-10-CNTL	1/5/2022	8:10	Water	1			X												HNO3 preserved. Field Filtered.	
4	MR-BT-MW-10-FB	1/5/2022	8:15	Water	1			X												HNO3 preserved. Field Filtered.	
5	MR-BT-MW-10-FC	1/5/2022	8:20	Water	1			X												HNO3 preserved. Field Filtered.	
6	MR-BT-MW-10-FC-Mn-PM	1/5/2022	8:25	Water	1			X												HNO3 preserved. Field Filtered. KMnO4 added	
7	MR-BT-MW-10-FC-Mn-PM-pH-9.5	1/5/2022	8:30	Water	1			X												HNO3 preserved. Field Filtered. KMnO4 added	
8	MR-BT-MW-10-FC-pH-5	1/5/2022	8:35	Water	1			X												HNO3 preserved. Field Filtered.	
9	MR-BT-MW-10-FS	1/5/2022	8:40	Water	1			X												HNO3 preserved. Field Filtered.	
10	MR-BT-MW-10-FS-DUP	1/5/2022	8:45	Water	1			X												HNO3 preserved. Field Filtered.	
11	MR-BT-MW-10-FS-Mn-PM	1/5/2022	8:50	Water	1			X												HNO3 preserved. Field Filtered. KMnO4 added	
12	MR-BT-MW-10-FS-Mn-PM-pH-9.5	1/5/2022	8:55	Water	1			X												HNO3 preserved. Field Filtered. KMnO4 added	
13	MR-BT-MW-10-GHT	1/5/2022	9:00	Water	1			X												HNO3 preserved. Field Filtered.	
14	MR-BT-MW-10-HT-MMO-pH-9.5	1/5/2022	9:05	Water	1			X												HNO3 preserved. Field Filtered. KMnO4 added	
15	MR-BT-MW-10-HT-pH-9.5	1/5/2022	9:10	Water	1			X												HNO3 preserved. Field Filtered.	
16	MR-BT-MW-10-PM	1/5/2022	9:15	Water	1			X												HNO3 preserved. Field Filtered. KMnO4 added	

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Some samples may have residual purple color associated with potassium permanganate (KMnO4). If those samples need to be diluted in order to not damage the ICP-MS, please do so and let Masa know the dilution factor.

Relinquished by:	Company:
Emma Nordlund	Anchor QEA
Signature/Print Name:	Date/Time:
<i>Emma Nordlund</i>	01/06/23 9:25

Relinquished by:	Company:
<i>Greg Rich</i>	ALS
Signature/Print Name:	Date/Time:
<i>Greg Rich</i>	1/6/23 1105

Received by:	
<i>Greg Rich</i>	ALS
Signature/Print Name:	Date/Time:
<i>Greg Rich</i>	1-6-23 0955

Received by:	
<i>Diane Price</i>	1/6/23 1130
Signature/Print Name:	
<i>PPM</i>	

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM MH

Cooler Receipt and Preservation Form

Client Anchor Service Request K23 00218
 Received: 1/6/23 Opened: 1/6/23 By: PDP Unloaded: 1/6/23 By: PDP

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
 2. Samples were received in: (circle) Cooler Box Envelope Other NA
 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>4.9</u>		<u>1201</u>					
<u>4.9</u>		<u>1201</u>					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
 5. Were samples received within the method specified temperature ranges? NA Y N
 If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N
 If applicable, tissue samples were received: Frozen Partially Thawed Thawed
 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
 8. Were samples received in good condition (unbroken) NA Y N
 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
 10. Did all sample labels and tags agree with custody papers? NA Y N
 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
 14. Was C12/Res negative? NA Y N
 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Date on COC says 2022, should say 2023 on all samples.
 G:\SMO\2022 Forms SOP: SMO-GEN Reviewed: 12/9/2022



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300218

Sample Name: MR-BT-MW-10-AIR
Lab Code: K2300218-001
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-BC
Lab Code: K2300218-002
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-CNTL
Lab Code: K2300218-003
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-FB
Lab Code: K2300218-004
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-FB
Lab Code: K2300218-004.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300218

Sample Name: MR-BT-MW-10-FC
Lab Code: K2300218-005
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-FC-Mn-PM
Lab Code: K2300218-006
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-FC-Mn-PM-pH-9.5
Lab Code: K2300218-007
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-FC-Mn-PM-pH-9.5
Lab Code: K2300218-007.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-FC-pH-5
Lab Code: K2300218-008
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300218

Sample Name: MR-BT-MW-10-FS
Lab Code: K2300218-009
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-FS-DUP
Lab Code: K2300218-010
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-FS-Mn-PM
Lab Code: K2300218-011
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-FS-Mn-PM-pH-9.5
Lab Code: K2300218-012
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-GHT
Lab Code: K2300218-013
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

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dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300218

Sample Name: MR-BT-MW-10-GHT
Lab Code: K2300218-013.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
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Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-HT-MMO-pH-9.5
Lab Code: K2300218-014
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-HT-pH-9.5
Lab Code: K2300218-015
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-10-PM
Lab Code: K2300218-016
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-AIR
Lab Code: K2300218-001

Service Request: K2300218
Date Collected: 01/05/23 08:00
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	12.9	ug/L	0.50	0.09	1	01/12/23 13:57	01/10/23	
Iron	200.8	1.0 J	ug/L	2.0	0.3	1	01/12/23 13:57	01/10/23	
Lithium	200.8	241	ug/L	0.10	0.10	1	01/12/23 13:57	01/10/23	
Manganese	200.8	1090	ug/L	1.0	0.04	1	01/12/23 13:57	01/10/23	
Molybdenum	200.8	908	ug/L	0.10	0.03	1	01/12/23 13:57	01/10/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-BC
Lab Code: K2300218-002

Service Request: K2300218
Date Collected: 01/05/23 08:05
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	11.3	ug/L	0.50	0.09	1	01/12/23 14:02	01/10/23	
Iron	200.8	2.5	ug/L	2.0	0.3	1	01/12/23 14:02	01/10/23	
Lithium	200.8	228	ug/L	0.10	0.10	1	01/12/23 14:02	01/10/23	
Manganese	200.8	1060	ug/L	1.0	0.04	1	01/12/23 14:02	01/10/23	
Molybdenum	200.8	853	ug/L	0.10	0.03	1	01/12/23 14:02	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-CNTL
Lab Code: K2300218-003

Service Request: K2300218
Date Collected: 01/05/23 08:10
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	11.8	ug/L	0.50	0.09	1	01/12/23 14:06	01/10/23	
Iron	200.8	1.2 J	ug/L	2.0	0.3	1	01/12/23 14:06	01/10/23	
Lithium	200.8	233	ug/L	0.10	0.10	1	01/12/23 14:06	01/10/23	
Manganese	200.8	1070	ug/L	1.0	0.04	1	01/12/23 14:06	01/10/23	
Molybdenum	200.8	924	ug/L	0.10	0.03	1	01/12/23 14:06	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-FB
Lab Code: K2300218-004

Service Request: K2300218
Date Collected: 01/05/23 08:15
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.82	ug/L	0.50	0.09	1	01/12/23 14:08	01/10/23	
Iron	200.8	11.0	ug/L	2.0	0.3	1	01/12/23 14:08	01/10/23	
Lithium	200.8	165	ug/L	0.10	0.10	1	01/12/23 14:08	01/10/23	
Manganese	200.8	5.34	ug/L	0.20	0.04	1	01/16/23 11:34	01/10/23	
Molybdenum	200.8	1030	ug/L	0.10	0.03	1	01/12/23 14:08	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-FC
Lab Code: K2300218-005

Service Request: K2300218
Date Collected: 01/05/23 08:20
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.33 J	ug/L	0.50	0.09	1	01/12/23 14:22	01/10/23	
Iron	200.8	77800	ug/L	40	6	20	01/12/23 15:12	01/10/23	
Lithium	200.8	231	ug/L	0.10	0.10	1	01/12/23 14:22	01/10/23	
Manganese	200.8	1070	ug/L	1.0	0.04	1	01/12/23 14:22	01/10/23	
Molybdenum	200.8	32.8	ug/L	0.10	0.03	1	01/12/23 14:22	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-FC-Mn-PM
Lab Code: K2300218-006

Service Request: K2300218
Date Collected: 01/05/23 08:25
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 14:23	01/10/23	
Iron	200.8	15700	ug/L	2.0	0.3	1	01/12/23 14:23	01/10/23	
Lithium	200.8	222	ug/L	0.10	0.10	1	01/12/23 14:23	01/10/23	
Manganese	200.8	4050	ug/L	1.0	0.04	1	01/12/23 14:23	01/10/23	
Molybdenum	200.8	0.07 J	ug/L	0.10	0.03	1	01/12/23 14:23	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300218
Date Collected: 01/05/23 08:30
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-10-FC-Mn-PM-pH-9.5
Lab Code: K2300218-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 14:25	01/10/23	
Iron	200.8	24.4	ug/L	2.0	0.3	1	01/12/23 14:25	01/10/23	
Lithium	200.8	87.8	ug/L	0.10	0.10	1	01/12/23 14:25	01/10/23	
Manganese	200.8	0.19 J	ug/L	0.20	0.04	1	01/16/23 11:35	01/10/23	
Molybdenum	200.8	95.3	ug/L	0.10	0.03	1	01/12/23 14:25	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-FC-pH-5
Lab Code: K2300218-008

Service Request: K2300218
Date Collected: 01/05/23 08:35
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 14:27	01/10/23	
Iron	200.8	22.7	ug/L	2.0	0.3	1	01/12/23 14:27	01/10/23	
Lithium	200.8	229	ug/L	0.10	0.10	1	01/12/23 14:27	01/10/23	
Manganese	200.8	949	ug/L	1.0	0.04	1	01/12/23 14:27	01/10/23	
Molybdenum	200.8	25.7	ug/L	0.10	0.03	1	01/12/23 14:27	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-FS
Lab Code: K2300218-009

Service Request: K2300218
Date Collected: 01/05/23 08:40
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 14:28	01/10/23	
Iron	200.8	146000	ug/L	40	6	20	01/12/23 15:14	01/10/23	
Lithium	200.8	232	ug/L	0.10	0.10	1	01/12/23 14:28	01/10/23	
Manganese	200.8	1580	ug/L	1.0	0.04	1	01/12/23 14:28	01/10/23	
Molybdenum	200.8	1.20	ug/L	0.10	0.03	1	01/12/23 14:28	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-FS-DUP
Lab Code: K2300218-010

Service Request: K2300218
Date Collected: 01/05/23 08:45
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 14:30	01/10/23	
Iron	200.8	141000	ug/L	40	6	20	01/12/23 15:15	01/10/23	
Lithium	200.8	227	ug/L	0.10	0.10	1	01/12/23 14:30	01/10/23	
Manganese	200.8	1580	ug/L	1.0	0.04	1	01/12/23 14:30	01/10/23	
Molybdenum	200.8	0.48	ug/L	0.10	0.03	1	01/12/23 14:30	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-FS-Mn-PM
Lab Code: K2300218-011

Service Request: K2300218
Date Collected: 01/05/23 08:50
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 14:31	01/10/23	
Iron	200.8	88500	ug/L	40	6	20	01/12/23 15:17	01/10/23	
Lithium	200.8	224	ug/L	0.10	0.10	1	01/12/23 14:31	01/10/23	
Manganese	200.8	4530	ug/L	1.0	0.04	1	01/12/23 14:31	01/10/23	
Molybdenum	200.8	0.09 J	ug/L	0.10	0.03	1	01/12/23 14:31	01/10/23	

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dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300218
Date Collected: 01/05/23 08:55
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-10-FS-Mn-PM-pH-9.5
Lab Code: K2300218-012

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 14:33	01/10/23	
Iron	200.8	91.5	ug/L	2.0	0.3	1	01/12/23 14:33	01/10/23	
Lithium	200.8	189	ug/L	0.10	0.10	1	01/12/23 14:33	01/10/23	
Manganese	200.8	344	ug/L	1.0	0.04	1	01/12/23 14:33	01/10/23	
Molybdenum	200.8	55.5	ug/L	0.10	0.03	1	01/12/23 14:33	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-GHT
Lab Code: K2300218-013

Service Request: K2300218
Date Collected: 01/05/23 09:00
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.17 J	ug/L	0.50	0.09	1	01/12/23 14:35	01/10/23	
Iron	200.8	44.7	ug/L	2.0	0.3	1	01/12/23 14:35	01/10/23	
Lithium	200.8	39.3	ug/L	0.10	0.10	1	01/12/23 14:35	01/10/23	
Manganese	200.8	2.88	ug/L	0.20	0.04	1	01/16/23 11:37	01/10/23	
Molybdenum	200.8	691	ug/L	0.10	0.03	1	01/12/23 14:35	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300218
Date Collected: 01/05/23 09:05
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-10-HT-MMO-pH-9.5
Lab Code: K2300218-014

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 14:36	01/10/23	
Iron	200.8	26.1	ug/L	2.0	0.3	1	01/12/23 14:36	01/10/23	
Lithium	200.8	8.32	ug/L	0.10	0.10	1	01/12/23 14:36	01/10/23	
Manganese	200.8	1800	ug/L	1.0	0.04	1	01/12/23 14:36	01/10/23	
Molybdenum	200.8	16.2	ug/L	0.10	0.03	1	01/12/23 14:36	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-HT-pH-9.5
Lab Code: K2300218-015

Service Request: K2300218
Date Collected: 01/05/23 09:10
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.13 J	ug/L	0.50	0.09	1	01/12/23 15:09	01/10/23	
Iron	200.8	1.1 J	ug/L	2.0	0.3	1	01/12/23 15:09	01/10/23	
Lithium	200.8	37.4	ug/L	0.10	0.10	1	01/12/23 15:09	01/10/23	
Manganese	200.8	160	ug/L	2.0	0.04	1	01/12/23 15:09	01/10/23	
Molybdenum	200.8	840	ug/L	0.10	0.03	1	01/12/23 15:09	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-10-PM
Lab Code: K2300218-016

Service Request: K2300218
Date Collected: 01/05/23 09:15
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	2.70	ug/L	0.50	0.09	1	01/12/23 15:10	01/10/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	01/12/23 15:10	01/10/23	
Lithium	200.8	225	ug/L	0.10	0.10	1	01/12/23 15:10	01/10/23	
Manganese	200.8	77800	ug/L	40	0.8	20	01/12/23 15:18	01/10/23	
Molybdenum	200.8	0.55	ug/L	0.10	0.03	1	01/12/23 15:10	01/10/23	



QC Summary Forms

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Metals

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2300328-01

Service Request: K2300218
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 13:53	01/10/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	01/12/23 13:53	01/10/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	01/12/23 13:53	01/10/23	
Manganese	200.8	ND U	ug/L	0.20	0.04	1	01/16/23 11:33	01/10/23	
Molybdenum	200.8	ND U	ug/L	0.10	0.03	1	01/12/23 13:53	01/10/23	

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300218
Date Collected: 01/05/23
Date Received: 01/06/23
Date Analyzed: 01/12/23
Date Extracted: 01/10/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-10-AIR
Lab Code: K2300218-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2300328-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	12.9	60.9	50.0	96	70-130
Iron	1.0 J	48.2	50.0	94	70-130
Lithium	241	281	50.0	81 #	70-130
Manganese	1090	1120	25.0	113 #	70-130
Molybdenum	908	960	25.0	208 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300218
Date Collected: 01/05/23
Date Received: 01/06/23
Date Analyzed: 01/12/23
Date Extracted: 01/10/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-10-BC
Lab Code: K2300218-002
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2300328-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	11.3	60.8	50.0	99	70-130
Iron	2.5	52.2	50.0	99	70-130
Lithium	228	279	50.0	101 #	70-130
Manganese	1060	1100	25.0	154 #	70-130
Molybdenum	853	867	25.0	53 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300218
Date Collected: 01/05/23
Date Received: 01/06/23
Date Analyzed: 01/12/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-BT-MW-10-AIR
Lab Code: K2300218-001

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate	Average	RPD	RPD Limit
					Sample KQ2300328-04 Result			
Arsenic	200.8	0.50	0.09	12.9	13.0	13.0	<1	20
Iron	200.8	2.0	0.3	1.0 J	1.4 J	1.2	33 #	20
Lithium	200.8	0.10	0.10	241	238	240	1	20
Manganese	200.8	1.0	0.04	1090	1100	1100	<1	20
Molybdenum	200.8	0.10	0.03	908	928	918	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300218
Date Collected: 01/05/23
Date Received: 01/06/23
Date Analyzed: 01/12/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-BT-MW-10-BC
Lab Code: K2300218-002

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate	Average	RPD	RPD Limit
					Sample KQ2300328-06 Result			
Arsenic	200.8	0.50	0.09	11.3	10.9	11.1	4	20
Iron	200.8	2.0	0.3	2.5	2.4	2.5	4	20
Lithium	200.8	0.10	0.10	228	231	230	1	20
Manganese	200.8	1.0	0.04	1060	1060	1060	<1	20
Molybdenum	200.8	0.10	0.03	853	864	859	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300218
Date Analyzed: 01/12/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2300328-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	48.5	50.0	97	85-115
Iron	200.8	48.6	50.0	97	85-115
Lithium	200.8	48.0	50.0	96	85-115
Manganese	200.8	24.6	25.0	98	85-115
Molybdenum	200.8	25.0	25.0	100	85-115



January 17, 2023

Service Request No:K2300221

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory January 06, 2023
For your reference, these analyses have been assigned our service request number **K2300221**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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Narrative Documents

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Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2300221
Date Received: 01/06/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Sixteen water samples were received for analysis at ALS Environmental on 01/06/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Noel D. O'Connell

Approved by _____

Date 01/17/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-6V-AIR	Lab ID: K2300221-001
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	103		0.09	0.50	ug/L	200.8
Iron, Dissolved	1.2	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	92.8		0.10	0.10	ug/L	200.8
Manganese, Dissolved	150		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-BC	Lab ID: K2300221-002
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	90.0		0.09	0.50	ug/L	200.8
Iron, Dissolved	1.8	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	95.4		0.10	0.10	ug/L	200.8
Manganese, Dissolved	636		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-CNTL	Lab ID: K2300221-003
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	106		0.09	0.50	ug/L	200.8
Iron, Dissolved	1.0	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	94.9		0.10	0.10	ug/L	200.8
Manganese, Dissolved	500		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-FB	Lab ID: K2300221-004
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.29		0.09	0.50	ug/L	200.8
Iron, Dissolved	68.8		0.3	2.0	ug/L	200.8
Lithium, Dissolved	32.8		0.10	0.10	ug/L	200.8
Manganese, Dissolved	2.18		0.04	0.60	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-FC	Lab ID: K2300221-005
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.44	J	0.09	0.50	ug/L	200.8
Iron, Dissolved	51900		6	40	ug/L	200.8
Lithium, Dissolved	95.6		0.10	0.10	ug/L	200.8
Manganese, Dissolved	634		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-FC-Mn-PM-pH-9.5	Lab ID: K2300221-007
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.12	J	0.09	0.50	ug/L	200.8
Iron, Dissolved	64.2		0.3	2.0	ug/L	200.8
Lithium, Dissolved	38.3		0.10	0.10	ug/L	200.8
Manganese, Dissolved	77.4		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-FS	Lab ID: K2300221-009
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.17	J	0.09	0.50	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-6V-FS	Lab ID: K2300221-009
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	116000		6	40	ug/L	200.8
Lithium, Dissolved	96.5		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1180		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-FS-DUP	Lab ID: K2300221-010
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.45	J	0.09	0.50	ug/L	200.8
Iron, Dissolved	114000		6	40	ug/L	200.8
Lithium, Dissolved	94.0		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1150		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-GHT	Lab ID: K2300221-013
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.66		0.09	0.50	ug/L	200.8
Iron, Dissolved	26.0		0.3	2.0	ug/L	200.8
Lithium, Dissolved	9.04		0.10	0.10	ug/L	200.8
Manganese, Dissolved	2.46		0.04	0.60	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-HT-pH-9.5	Lab ID: K2300221-015
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1.19		0.09	0.50	ug/L	200.8
Iron, Dissolved	2.1		0.3	2.0	ug/L	200.8
Lithium, Dissolved	20.9		0.10	0.10	ug/L	200.8
Manganese, Dissolved	58.5		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-PM	Lab ID: K2300221-016
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	26.8		0.09	0.50	ug/L	200.8
Lithium, Dissolved	91.8		0.10	0.10	ug/L	200.8
Manganese, Dissolved	76700		0.8	40	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-FC-Mn-PM	Lab ID: K2300221-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	59400		6	40	ug/L	200.8
Lithium, Dissolved	91.1		0.10	0.10	ug/L	200.8
Manganese, Dissolved	780		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-FC-pH-5	Lab ID: K2300221-008
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	118		0.3	2.0	ug/L	200.8
Lithium, Dissolved	94.6		0.10	0.10	ug/L	200.8
Manganese, Dissolved	601		0.04	2.0	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-6V-FS-Mn-PM **Lab ID: K2300221-011**

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	6840		0.3	2.0	ug/L	200.8
Lithium, Dissolved	89.3		0.10	0.10	ug/L	200.8
Manganese, Dissolved	303		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-FS-Mn-PM-pH-9.5 **Lab ID: K2300221-012**

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	48.0		0.3	2.0	ug/L	200.8
Lithium, Dissolved	79.4		0.10	0.10	ug/L	200.8
Manganese, Dissolved	252		0.04	2.0	ug/L	200.8

CLIENT ID: MR-BT-MW-6V-HT-MMO-pH-9.5 **Lab ID: K2300221-014**

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	19.8		0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.27		0.10	0.10	ug/L	200.8
Manganese, Dissolved	5.94		0.04	0.60	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

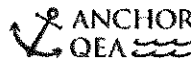
Service Request:K2300221

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2300221-001	MR-BT-MW-6V-AIR	1/4/2023	0920
K2300221-002	MR-BT-MW-6V-BC	1/4/2023	0925
K2300221-003	MR-BT-MW-6V-CNTL	1/4/2023	0930
K2300221-004	MR-BT-MW-6V-FB	1/4/2023	0935
K2300221-005	MR-BT-MW-6V-FC	1/4/2023	0940
K2300221-006	MR-BT-MW-6V-FC-Mn-PM	1/4/2023	0945
K2300221-007	MR-BT-MW-6V-FC-Mn-PM-pH-9.5	1/4/2023	0950
K2300221-008	MR-BT-MW-6V-FC-pH-5	1/4/2023	0955
K2300221-009	MR-BT-MW-6V-FS	1/4/2023	1000
K2300221-010	MR-BT-MW-6V-FS-DUP	1/4/2023	1005
K2300221-011	MR-BT-MW-6V-FS-Mn-PM	1/4/2023	1010
K2300221-012	MR-BT-MW-6V-FS-Mn-PM-pH-9.5	1/4/2023	1015
K2300221-013	MR-BT-MW-6V-GHT	1/4/2023	1020
K2300221-014	MR-BT-MW-6V-HT-MMO-pH-9.5	1/4/2023	1025
K2300221-015	MR-BT-MW-6V-HT-pH-9.5	1/4/2023	1030
K2300221-016	MR-BT-MW-6V-PM	1/4/2023	1035

Chain of Custody Record & Laboratory Analysis Request

V2300221

Laboratory Number: 503-972-5019					No. of Containers	Parameters										 Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219 Comments/Preservation					
Date:	1/6/2023					Dissolved Fe, Mn, Co, Li															
Project Name:	Miller					Dissolved Fe, Mn, As, Li		X													
Project Number:	221114-07.01 Task 05					Dissolved Fe, Mn, As, Li, Mo		X													
Project Manager:	Masa Kanematsu					Dissolved Fe, Mn, Li, Mo		X													
Phone Number:	503-972-5001 (backup number: 503-798-3456)					Dissolved Fe, Mn, As, Co, Li, Mo		X													
Shipment Method:	ALS Carrier				Dissolved As																
					Dissolved Co																
					Total Co																
Line	Field Sample ID	Collection		Matrix																	
		Date	Time																		
1	MR-BT-MW-6V-AIR	1/4/2023	9:20	Water	1		X												HNO3 preserved. Field Filtered.		
2	MR-BT-MW-6V-BC	1/4/2023	9:25	Water	1		X												HNO3 preserved. Field Filtered.		
3	MR-BT-MW-6V-CNTL	1/4/2023	9:30	Water	1		X												HNO3 preserved. Field Filtered.		
4	MR-BT-MW-6V-FB	1/4/2023	9:35	Water	1		X												HNO3 preserved. Field Filtered.		
5	MR-BT-MW-6V-FC	1/4/2023	9:40	Water	1		X												HNO3 preserved. Field Filtered.		
6	MR-BT-MW-6V-FC-Mn-PM	1/4/2023	9:45	Water	1		X												HNO3 preserved. Field Filtered. KMnO4 added		
7	MR-BT-MW-6V-FC-Mn-PM-pH-9.5	1/4/2023	9:50	Water	1		X												HNO3 preserved. Field Filtered. KMnO4 added		
8	MR-BT-MW-6V-FC-pH-5	1/4/2023	9:55	Water	1		X												HNO3 preserved. Field Filtered.		
9	MR-BT-MW-6V-FS	1/4/2023	10:00	Water	1		X												HNO3 preserved. Field Filtered.		
10	MR-BT-MW-6V-FS-DUP	1/4/2023	10:05	Water	1		X												HNO3 preserved. Field Filtered.		
11	MR-BT-MW-6V-FS-Mn-PM	1/4/2023	10:10	Water	1		X												HNO3 preserved. Field Filtered. KMnO4 added		
12	MR-BT-MW-6V-FS-Mn-PM-pH-9.5	1/4/2023	10:15	Water	1		X												HNO3 preserved. Field Filtered. KMnO4 added		
13	MR-BT-MW-6V-GHT	1/4/2023	10:20	Water	1		X												HNO3 preserved. Field Filtered.		
14	MR-BT-MW-6V-HT-MMO-pH-9.5	1/4/2023	10:25	Water	1		X												HNO3 preserved. Field Filtered. KMnO4 added		
15	MR-BT-MW-6V-HT-pH-9.5	1/4/2023	10:30	Water	1		X												HNO3 preserved. Field Filtered.		
16	MR-BT-MW-6V-PM	1/4/2023	10:35	Water	1		X												HNO3 preserved. Field Filtered. KMnO4 added		

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Some samples may have residual purple color associated with potassium permanganate (KMnO4). If those samples need to be diluted in order to not damage the ICP-MS, please do so and let Masa know the dilution factor.

Relinquished by:	Company:
Emma Nordlund	Anchor QEA
Signature/Print Name:	Date/Time:
<i>Emma Nordlund</i>	01/06/23 9:25
Relinquished by:	Company:
<i>Greg Rich</i>	ALS
Signature/Print Name:	Date/Time:
<i>Greg Rich</i>	1/6/23 1105

Received by:
<i>Greg Rich</i> ALS
Signature/Print Name:
<i>Greg Rich</i> 1-6-23 0955
Received by:
<i>Diane P...</i> 1/6/23 1130
Signature/Print Name:
<i>PPL</i>

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM MH

Cooler Receipt and Preservation Form

Client Anchor Service Request K23 00221
Received: 1/6/23 Opened: 1/6/23 By: PDP Unloaded: 1/6/23 By: PDP

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with 'X'	PM Notified If out of temp	Tracking Number NA	Filed
<u>4.9</u>		<u>1801</u>					
<u>4.9</u>		<u>1801</u>					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves

- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300221

Sample Name: MR-BT-MW-6V-AIR
Lab Code: K2300221-001
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-AIR
Lab Code: K2300221-001.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-BC
Lab Code: K2300221-002
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-BC
Lab Code: K2300221-002.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-CNTL
Lab Code: K2300221-003
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300221

Sample Name: MR-BT-MW-6V-CNTL
Lab Code: K2300221-003.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FB
Lab Code: K2300221-004
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FB
Lab Code: K2300221-004.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FC
Lab Code: K2300221-005
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FC
Lab Code: K2300221-005.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300221

Sample Name: MR-BT-MW-6V-FC-Mn-PM
Lab Code: K2300221-006
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FC-Mn-PM
Lab Code: K2300221-006.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FC-Mn-PM-pH-9.5
Lab Code: K2300221-007
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FC-Mn-PM-pH-9.5
Lab Code: K2300221-007.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FC-pH-5
Lab Code: K2300221-008
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300221

Sample Name: MR-BT-MW-6V-FC-pH-5
Lab Code: K2300221-008.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FS
Lab Code: K2300221-009
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FS
Lab Code: K2300221-009.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FS-DUP
Lab Code: K2300221-010
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FS-DUP
Lab Code: K2300221-010.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300221

Sample Name: MR-BT-MW-6V-FS-Mn-PM
Lab Code: K2300221-011
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FS-Mn-PM
Lab Code: K2300221-011.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FS-Mn-PM-pH-9.5
Lab Code: K2300221-012
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-FS-Mn-PM-pH-9.5
Lab Code: K2300221-012.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-GHT
Lab Code: K2300221-013
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300221

Sample Name: MR-BT-MW-6V-GHT
Lab Code: K2300221-013.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-HT-MMO-pH-9.5
Lab Code: K2300221-014
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-HT-MMO-pH-9.5
Lab Code: K2300221-014.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-HT-pH-9.5
Lab Code: K2300221-015
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-HT-pH-9.5
Lab Code: K2300221-015.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300221

Sample Name: MR-BT-MW-6V-PM
Lab Code: K2300221-016
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-PM
Lab Code: K2300221-016.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
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Analyzed By
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Sample Results

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-AIR
Lab Code: K2300221-001

Service Request: K2300221
Date Collected: 01/04/23 09:20
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	103	ug/L	0.50	0.09	1	01/12/23 17:34	01/10/23	
Iron	200.8	1.2 J	ug/L	2.0	0.3	1	01/12/23 17:34	01/10/23	
Lithium	200.8	92.8	ug/L	0.10	0.10	1	01/16/23 12:54	01/10/23	
Manganese	200.8	150	ug/L	2.0	0.04	1	01/12/23 17:34	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-BC
Lab Code: K2300221-002

Service Request: K2300221
Date Collected: 01/04/23 09:25
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	90.0	ug/L	0.50	0.09	1	01/12/23 17:38	01/10/23	
Iron	200.8	1.8 J	ug/L	2.0	0.3	1	01/12/23 17:38	01/10/23	
Lithium	200.8	95.4	ug/L	0.10	0.10	1	01/16/23 12:59	01/10/23	
Manganese	200.8	636	ug/L	2.0	0.04	1	01/12/23 17:38	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-CNTL
Lab Code: K2300221-003

Service Request: K2300221
Date Collected: 01/04/23 09:30
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	106	ug/L	0.50	0.09	1	01/12/23 17:43	01/10/23	
Iron	200.8	1.0 J	ug/L	2.0	0.3	1	01/12/23 17:43	01/10/23	
Lithium	200.8	94.9	ug/L	0.10	0.10	1	01/16/23 13:04	01/10/23	
Manganese	200.8	500	ug/L	2.0	0.04	1	01/12/23 17:43	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-FB
Lab Code: K2300221-004

Service Request: K2300221
Date Collected: 01/04/23 09:35
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	2.29	ug/L	0.50	0.09	1	01/12/23 17:45	01/10/23	
Iron	200.8	68.8	ug/L	2.0	0.3	1	01/12/23 17:45	01/10/23	
Lithium	200.8	32.8	ug/L	0.10	0.10	1	01/16/23 13:06	01/10/23	
Manganese	200.8	2.18	ug/L	0.60	0.04	1	01/16/23 13:06	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-FC
Lab Code: K2300221-005

Service Request: K2300221
Date Collected: 01/04/23 09:40
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.44 J	ug/L	0.50	0.09	1	01/12/23 17:51	01/10/23	
Iron	200.8	51900	ug/L	40	6	20	01/12/23 18:25	01/10/23	
Lithium	200.8	95.6	ug/L	0.10	0.10	1	01/16/23 13:11	01/10/23	
Manganese	200.8	634	ug/L	2.0	0.04	1	01/12/23 17:51	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-FC-Mn-PM
Lab Code: K2300221-006

Service Request: K2300221
Date Collected: 01/04/23 09:45
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 17:52	01/10/23	
Iron	200.8	59400	ug/L	40	6	20	01/12/23 18:26	01/10/23	
Lithium	200.8	91.1	ug/L	0.10	0.10	1	01/16/23 13:13	01/10/23	
Manganese	200.8	780	ug/L	2.0	0.04	1	01/12/23 17:52	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300221
Date Collected: 01/04/23 09:50
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-6V-FC-Mn-PM-pH-9.5
Lab Code: K2300221-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.12 J	ug/L	0.50	0.09	1	01/12/23 17:54	01/10/23	
Iron	200.8	64.2	ug/L	2.0	0.3	1	01/12/23 17:54	01/10/23	
Lithium	200.8	38.3	ug/L	0.10	0.10	1	01/16/23 13:14	01/10/23	
Manganese	200.8	77.4	ug/L	2.0	0.04	1	01/12/23 17:54	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-FC-pH-5
Lab Code: K2300221-008

Service Request: K2300221
Date Collected: 01/04/23 09:55
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 17:55	01/10/23	
Iron	200.8	118	ug/L	2.0	0.3	1	01/12/23 17:55	01/10/23	
Lithium	200.8	94.6	ug/L	0.10	0.10	1	01/16/23 13:16	01/10/23	
Manganese	200.8	601	ug/L	2.0	0.04	1	01/12/23 17:55	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-FS
Lab Code: K2300221-009

Service Request: K2300221
Date Collected: 01/04/23 10:00
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.17 J	ug/L	0.50	0.09	1	01/12/23 17:57	01/10/23	
Iron	200.8	116000	ug/L	40	6	20	01/12/23 18:28	01/10/23	
Lithium	200.8	96.5	ug/L	0.10	0.10	1	01/16/23 13:18	01/10/23	
Manganese	200.8	1180	ug/L	2.0	0.04	1	01/12/23 17:57	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-FS-DUP
Lab Code: K2300221-010

Service Request: K2300221
Date Collected: 01/04/23 10:05
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.45 J	ug/L	0.50	0.09	1	01/12/23 17:59	01/10/23	
Iron	200.8	114000	ug/L	40	6	20	01/12/23 18:30	01/10/23	
Lithium	200.8	94.0	ug/L	0.10	0.10	1	01/16/23 13:19	01/10/23	
Manganese	200.8	1150	ug/L	2.0	0.04	1	01/12/23 17:59	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-FS-Mn-PM
Lab Code: K2300221-011

Service Request: K2300221
Date Collected: 01/04/23 10:10
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 18:00	01/10/23	
Iron	200.8	6840	ug/L	2.0	0.3	1	01/12/23 18:00	01/10/23	
Lithium	200.8	89.3	ug/L	0.10	0.10	1	01/16/23 13:21	01/10/23	
Manganese	200.8	303	ug/L	2.0	0.04	1	01/12/23 18:00	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300221
Date Collected: 01/04/23 10:15
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-6V-FS-Mn-PM-pH-9.5
Lab Code: K2300221-012

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 18:02	01/10/23	
Iron	200.8	48.0	ug/L	2.0	0.3	1	01/12/23 18:02	01/10/23	
Lithium	200.8	79.4	ug/L	0.10	0.10	1	01/16/23 13:23	01/10/23	
Manganese	200.8	252	ug/L	2.0	0.04	1	01/12/23 18:02	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-GHT
Lab Code: K2300221-013

Service Request: K2300221
Date Collected: 01/04/23 10:20
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.66	ug/L	0.50	0.09	1	01/12/23 18:03	01/10/23	
Iron	200.8	26.0	ug/L	2.0	0.3	1	01/12/23 18:03	01/10/23	
Lithium	200.8	9.04	ug/L	0.10	0.10	1	01/16/23 13:24	01/10/23	
Manganese	200.8	2.46	ug/L	0.60	0.04	1	01/16/23 13:24	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300221
Date Collected: 01/04/23 10:25
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-6V-HT-MMO-pH-9.5
Lab Code: K2300221-014

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 18:05	01/10/23	
Iron	200.8	19.8	ug/L	2.0	0.3	1	01/12/23 18:05	01/10/23	
Lithium	200.8	1.27	ug/L	0.10	0.10	1	01/16/23 13:26	01/10/23	
Manganese	200.8	5.94	ug/L	0.60	0.04	1	01/16/23 13:26	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-HT-pH-9.5
Lab Code: K2300221-015

Service Request: K2300221
Date Collected: 01/04/23 10:30
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.19	ug/L	0.50	0.09	1	01/12/23 18:22	01/10/23	
Iron	200.8	2.1	ug/L	2.0	0.3	1	01/12/23 18:22	01/10/23	
Lithium	200.8	20.9	ug/L	0.10	0.10	1	01/16/23 14:01	01/10/23	
Manganese	200.8	58.5	ug/L	2.0	0.04	1	01/12/23 18:22	01/10/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-6V-PM
Lab Code: K2300221-016

Service Request: K2300221
Date Collected: 01/04/23 10:35
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	26.8	ug/L	0.50	0.09	1	01/12/23 18:23	01/10/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	01/12/23 18:23	01/10/23	
Lithium	200.8	91.8	ug/L	0.10	0.10	1	01/16/23 14:02	01/10/23	
Manganese	200.8	76700	ug/L	40	0.8	20	01/12/23 18:31	01/10/23	



QC Summary Forms

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2300323-01

Service Request: K2300221
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 17:30	01/10/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	01/12/23 17:30	01/10/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	01/16/23 12:51	01/10/23	
Manganese	200.8	0.60 J	ug/L	0.60	0.04	1	01/16/23 12:51	01/10/23	

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300221
Date Collected: 01/04/23
Date Received: 01/06/23
Date Analyzed: 01/12/23 - 01/16/23
Date Extracted: 01/10/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-6V-AIR
Lab Code: K2300221-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2300323-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	103	153	50.0	99	70-130
Iron	1.2 J	50.1	50.0	98	70-130
Lithium	92.8	140	50.0	95	70-130
Manganese	150	174	25.0	95 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300221
Date Collected: 01/04/23
Date Received: 01/06/23
Date Analyzed: 01/12/23 - 01/16/23
Date Extracted: 01/10/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-6V-BC
Lab Code: K2300221-002
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2300323-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	90.0	137	50.0	95	70-130
Iron	1.8 J	49.3	50.0	95	70-130
Lithium	95.4	146	50.0	102	70-130
Manganese	636	668	25.0	130 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300221
Date Collected: 01/04/23
Date Received: 01/06/23
Date Analyzed: 01/12/23 - 01/16/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-BT-MW-6V-AIR
Lab Code: K2300221-001

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate	Average	RPD	RPD Limit
					Sample KQ2300323-04			
Arsenic	200.8	0.50	0.09	103	102	103	<1	20
Iron	200.8	2.0	0.3	1.2 J	1.1 J	1.2	9	20
Lithium	200.8	0.10	0.10	92.8	95.3	94.1	3	20
Manganese	200.8	2.0	0.04	150	151	151	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300221
Date Collected: 01/04/23
Date Received: 01/06/23
Date Analyzed: 01/12/23 - 01/16/23

Replicate Sample Summary

Dissolved Metals

Sample Name: MR-BT-MW-6V-BC
Lab Code: K2300221-002

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2300323-06 Result, Average, RPD, RPD Limit. Rows include Arsenic, Iron, Lithium, and Manganese.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300221
Date Analyzed: 01/12/23 - 01/16/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2300323-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	48.9	50.0	98	85-115
Iron	200.8	50.0	50.0	100	85-115
Lithium	200.8	49.5	50.0	99	85-115
Manganese	200.8	25.7	25.0	103	85-115



January 17, 2023

Service Request No:K2300222

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory January 06, 2023
For your reference, these analyses have been assigned our service request number **K2300222**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2300222
Date Received: 01/06/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Sixteen water samples were received for analysis at ALS Environmental on 01/06/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____

Date 01/17/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-4V-AIR	Lab ID: K2300222-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	59.8		0.009	0.020	ug/L	200.8
Iron, Dissolved	1.0	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	143		0.10	0.10	ug/L	200.8
Manganese, Dissolved	2610		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-BC	Lab ID: K2300222-002
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	53.8		0.009	0.020	ug/L	200.8
Iron, Dissolved	121		0.3	2.0	ug/L	200.8
Lithium, Dissolved	143		0.10	0.10	ug/L	200.8
Manganese, Dissolved	2560		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-CNTL	Lab ID: K2300222-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	56.0		0.009	0.020	ug/L	200.8
Iron, Dissolved	1.9	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	145		0.10	0.10	ug/L	200.8
Manganese, Dissolved	2610		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-FB	Lab ID: K2300222-004
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	1.01		0.009	0.020	ug/L	200.8
Iron, Dissolved	141		0.3	2.0	ug/L	200.8
Lithium, Dissolved	78.5		0.10	0.10	ug/L	200.8
Manganese, Dissolved	3.75		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-FC	Lab ID: K2300222-005
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	55.6		0.009	0.020	ug/L	200.8
Iron, Dissolved	104000		6	40	ug/L	200.8
Lithium, Dissolved	147		0.10	0.10	ug/L	200.8
Manganese, Dissolved	2620		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-FC-Mn-PM	Lab ID: K2300222-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	7.79		0.009	0.020	ug/L	200.8
Iron, Dissolved	13400		0.3	2.0	ug/L	200.8
Lithium, Dissolved	135		0.10	0.10	ug/L	200.8
Manganese, Dissolved	762		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-FC-Mn-PM-pH-9.5	Lab ID: K2300222-007
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.035		0.009	0.020	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-4V-FC-Mn-PM-pH-9.5	Lab ID: K2300222-007
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	24.5		0.3	2.0	ug/L	200.8
Lithium, Dissolved	59.2		0.10	0.10	ug/L	200.8
Manganese, Dissolved	2330		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-FC-pH-5	Lab ID: K2300222-008
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	51.6		0.009	0.020	ug/L	200.8
Iron, Dissolved	13.3		0.3	2.0	ug/L	200.8
Lithium, Dissolved	139		0.10	0.10	ug/L	200.8
Manganese, Dissolved	2410		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-FS	Lab ID: K2300222-009
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	56.0		0.009	0.020	ug/L	200.8
Iron, Dissolved	172000		6	40	ug/L	200.8
Lithium, Dissolved	141		0.10	0.10	ug/L	200.8
Manganese, Dissolved	3120		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-FS-DUP	Lab ID: K2300222-010
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	56.8		0.009	0.020	ug/L	200.8
Iron, Dissolved	175000		6	40	ug/L	200.8
Lithium, Dissolved	138		0.10	0.10	ug/L	200.8
Manganese, Dissolved	3110		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-FS-Mn-PM	Lab ID: K2300222-011
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	53.2		0.009	0.020	ug/L	200.8
Iron, Dissolved	78000		6	40	ug/L	200.8
Lithium, Dissolved	136		0.10	0.10	ug/L	200.8
Manganese, Dissolved	689		0.04	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-FS-Mn-PM-pH-9.5	Lab ID: K2300222-012
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.045		0.009	0.020	ug/L	200.8
Iron, Dissolved	47.4		0.3	2.0	ug/L	200.8
Lithium, Dissolved	119		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1780		0.04	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-GHT	Lab ID: K2300222-013
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.050		0.009	0.020	ug/L	200.8
Iron, Dissolved	14.0		0.3	2.0	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-4V-GHT Lab ID: K2300222-013

Analyte	Results	Flag	MDL	MRL	Units	Method
Lithium, Dissolved	18.8		0.10	0.10	ug/L	200.8
Manganese, Dissolved	4.83		0.04	0.20	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-HT-MMO-pH-9.5 Lab ID: K2300222-014

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.024		0.009	0.020	ug/L	200.8
Iron, Dissolved	34.0		0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.59		0.10	0.10	ug/L	200.8
Manganese, Dissolved	68.5		0.04	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-HT-pH-9.5 Lab ID: K2300222-015

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.122		0.009	0.020	ug/L	200.8
Iron, Dissolved	5.3		0.3	2.0	ug/L	200.8
Lithium, Dissolved	27.4		0.10	0.10	ug/L	200.8
Manganese, Dissolved	362		0.04	1.0	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-PM Lab ID: K2300222-016

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.015	J	0.009	0.020	ug/L	200.8
Iron, Dissolved	2.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	139		0.10	0.10	ug/L	200.8
Manganese, Dissolved	77300		0.8	20	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

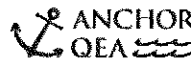
Service Request:K2300222

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2300222-001	MR-BT-MW-4V-AIR	1/4/2023	0800
K2300222-002	MR-BT-MW-4V-BC	1/4/2023	0805
K2300222-003	MR-BT-MW-4V-CNTL	1/4/2023	0810
K2300222-004	MR-BT-MW-4V-FB	1/4/2023	0815
K2300222-005	MR-BT-MW-4V-FC	1/4/2023	0820
K2300222-006	MR-BT-MW-4V-FC-Mn-PM	1/4/2023	0825
K2300222-007	MR-BT-MW-4V-FC-Mn-PM-pH-9.5	1/4/2023	0830
K2300222-008	MR-BT-MW-4V-FC-pH-5	1/4/2023	0835
K2300222-009	MR-BT-MW-4V-FS	1/4/2023	0840
K2300222-010	MR-BT-MW-4V-FS-DUP	1/4/2023	0845
K2300222-011	MR-BT-MW-4V-FS-Mn-PM	1/4/2023	0850
K2300222-012	MR-BT-MW-4V-FS-Mn-PM-pH-9.5	1/4/2023	0855
K2300222-013	MR-BT-MW-4V-GHT	1/4/2023	0900
K2300222-014	MR-BT-MW-4V-HT-MMO-pH-9.5	1/4/2023	0905
K2300222-015	MR-BT-MW-4V-HT-pH-9.5	1/4/2023	0910
K2300222-016	MR-BT-MW-4V-PM	1/4/2023	0915

Chain of Custody Record & Laboratory Analysis Request

112300222

Laboratory Number: 503-972-5019					No. of Containers	Parameters										 ANCHOR QEA Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219 Comments/Preservation					
Date:	1/6/2023					Dissolved Fe, Mn, Co, Li															
Project Name:	Miller					Dissolved Fe, Mn, As, Li															
Project Number:	221114-07.01 Task 05					Dissolved Fe, Mn, As, Li, Mo															
Project Manager:	Masa Kanematsu					Dissolved Fe, Mn, Li, Mo															
Phone Number:	503-972-5001 (backup number: 503-798-3456)					Dissolved Fe, Mn, As, Co, Li, Mo															
Shipment Method:	ALS Carrier				Dissolved As																
					Dissolved Co																
					Total Co																
Line	Field Sample ID	Collection		Matrix																	
		Date	Time																		
1	MR-BT-MW-4V-AIR	1/4/2023	8:00	Water	1	X													HNO3 preserved. Field Filtered.		
2	MR-BT-MW-4V-BC	1/4/2023	8:05	Water	1	X													HNO3 preserved. Field Filtered.		
3	MR-BT-MW-4V-CNTL	1/4/2023	8:10	Water	1	X													HNO3 preserved. Field Filtered.		
4	MR-BT-MW-4V-FB	1/4/2023	8:15	Water	1	X													HNO3 preserved. Field Filtered.		
5	MR-BT-MW-4V-FC	1/4/2023	8:20	Water	1	X													HNO3 preserved. Field Filtered.		
6	MR-BT-MW-4V-FC-Mn-PM	1/4/2023	8:25	Water	1	X													HNO3 preserved. Field Filtered. KMnO4 added		
7	MR-BT-MW-4V-FC-Mn-PM-pH-9.5	1/4/2023	8:30	Water	1	X													HNO3 preserved. Field Filtered. KMnO4 added		
8	MR-BT-MW-4V-FC-pH-5	1/4/2023	8:35	Water	1	X													HNO3 preserved. Field Filtered.		
9	MR-BT-MW-4V-FS	1/4/2023	8:40	Water	1	X													HNO3 preserved. Field Filtered.		
10	MR-BT-MW-4V-FS-DUP	1/4/2023	8:45	Water	1	X													HNO3 preserved. Field Filtered.		
11	MR-BT-MW-4V-FS-Mn-PM	1/4/2023	8:50	Water	1	X													HNO3 preserved. Field Filtered. KMnO4 added		
12	MR-BT-MW-4V-FS-Mn-PM-pH-9.5	1/4/2023	8:55	Water	1	X													HNO3 preserved. Field Filtered. KMnO4 added		
13	MR-BT-MW-4V-GHT	1/4/2023	9:00	Water	1	X													HNO3 preserved. Field Filtered.		
14	MR-BT-MW-4V-HT-MMO-pH-9.5	1/4/2023	9:05	Water	1	X													HNO3 preserved. Field Filtered. KMnO4 added		
15	MR-BT-MW-4V-HT-pH-9.5	1/4/2023	9:10	Water	1	X													HNO3 preserved. Field Filtered.		
16	MR-BT-MW-4V-PM	1/4/2023	9:15	Water	1	X													HNO3 preserved. Field Filtered. KMnO4 added		

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Some samples may have residual purple color associated with potassium permanganate (KMnO4). If those samples need to be diluted in order to not damage the ICP-MS, please do so and let Masa know the dilution factor.

Relinquished by:	Company:
Emma Nordlund	Anchor QEA
Signature/Print Name:	Date/Time:
<i>Emma Nordlund</i>	01/06/23 9:25

Relinquished by:	Company:
<i>Greg Rich</i>	ALS
Signature/Print Name:	Date/Time:
<i>Greg Rich</i>	1/6/23 1105

Received by:	
<i>Greg Rich</i>	ALS
Signature/Print Name:	Date/Time:
<i>Greg Rich</i>	1/6/23 0955

Received by:	
<i>Diane Price</i>	1/6/23 1130
Signature/Print Name:	Date/Time:
<i>Diane Price</i>	

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM MH

Cooler Receipt and Preservation Form

Client Anchor Service Request K23 00222
Received: 1/6/23 Opened: 1/6/23 By: PDP Unloaded: 1/6/23 By: PDP

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
4.9		1201					
4.9		1201					

- 4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N
- If applicable, tissue samples were received: Frozen Partially Thawed Thawed
- 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300222

Sample Name: MR-BT-MW-4V-AIR
Lab Code: K2300222-001
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-BC
Lab Code: K2300222-002
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-CNTL
Lab Code: K2300222-003
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-FB
Lab Code: K2300222-004
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-FC
Lab Code: K2300222-005
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300222

Sample Name: MR-BT-MW-4V-FC-Mn-PM
Lab Code: K2300222-006
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-FC-Mn-PM-pH-9.5
Lab Code: K2300222-007
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-FC-pH-5
Lab Code: K2300222-008
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-FS
Lab Code: K2300222-009
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-FS-DUP
Lab Code: K2300222-010
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300222

Sample Name: MR-BT-MW-4V-FS-Mn-PM
Lab Code: K2300222-011
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-FS-Mn-PM-pH-9.5
Lab Code: K2300222-012
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-GHT
Lab Code: K2300222-013
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-GHT
Lab Code: K2300222-013.R01
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-HT-MMO-pH-9.5
Lab Code: K2300222-014
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300222

Sample Name: MR-BT-MW-4V-HT-pH-9.5
Lab Code: K2300222-015
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-4V-PM
Lab Code: K2300222-016
Sample Matrix: Water

Date Collected: 01/4/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-AIR
Lab Code: K2300222-001

Service Request: K2300222
Date Collected: 01/04/23 08:00
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	59.8	ug/L	0.020	0.009	1	01/12/23 11:20	01/10/23	
Iron	200.8	1.0 J	ug/L	2.0	0.3	1	01/12/23 11:20	01/10/23	
Lithium	200.8	143	ug/L	0.10	0.10	1	01/12/23 11:20	01/10/23	
Manganese	200.8	2610	ug/L	0.20	0.04	1	01/12/23 11:20	01/10/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-BC
Lab Code: K2300222-002

Service Request: K2300222
Date Collected: 01/04/23 08:05
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	53.8	ug/L	0.020	0.009	1	01/12/23 11:25	01/10/23	
Iron	200.8	121	ug/L	2.0	0.3	1	01/12/23 11:25	01/10/23	
Lithium	200.8	143	ug/L	0.10	0.10	1	01/12/23 11:25	01/10/23	
Manganese	200.8	2560	ug/L	0.20	0.04	1	01/12/23 11:25	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-CNTL
Lab Code: K2300222-003

Service Request: K2300222
Date Collected: 01/04/23 08:10
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	56.0	ug/L	0.020	0.009	1	01/12/23 11:54	01/10/23	
Iron	200.8	1.9 J	ug/L	2.0	0.3	1	01/12/23 11:54	01/10/23	
Lithium	200.8	145	ug/L	0.10	0.10	1	01/12/23 11:54	01/10/23	
Manganese	200.8	2610	ug/L	0.20	0.04	1	01/12/23 11:54	01/10/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-FB
Lab Code: K2300222-004

Service Request: K2300222
Date Collected: 01/04/23 08:15
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	1.01	ug/L	0.020	0.009	1	01/12/23 11:55	01/10/23	
Iron	200.8	141	ug/L	2.0	0.3	1	01/12/23 11:55	01/10/23	
Lithium	200.8	78.5	ug/L	0.10	0.10	1	01/12/23 11:55	01/10/23	
Manganese	200.8	3.75	ug/L	0.20	0.04	1	01/12/23 11:55	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-FC
Lab Code: K2300222-005

Service Request: K2300222
Date Collected: 01/04/23 08:20
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	55.6	ug/L	0.020	0.009	1	01/12/23 11:57	01/10/23	
Iron	200.8	104000	ug/L	40	6	20	01/12/23 12:41	01/10/23	
Lithium	200.8	147	ug/L	0.10	0.10	1	01/12/23 11:57	01/10/23	
Manganese	200.8	2620	ug/L	0.20	0.04	1	01/12/23 11:57	01/10/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-FC-Mn-PM
Lab Code: K2300222-006

Service Request: K2300222
Date Collected: 01/04/23 08:25
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	7.79	ug/L	0.020	0.009	1	01/12/23 11:59	01/10/23	
Iron	200.8	13400	ug/L	2.0	0.3	1	01/12/23 11:59	01/10/23	
Lithium	200.8	135	ug/L	0.10	0.10	1	01/12/23 11:59	01/10/23	
Manganese	200.8	762	ug/L	0.20	0.04	1	01/12/23 11:59	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300222
Date Collected: 01/04/23 08:30
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-4V-FC-Mn-PM-pH-9.5
Lab Code: K2300222-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.035	ug/L	0.020	0.009	1	01/12/23 12:00	01/10/23	
Iron	200.8	24.5	ug/L	2.0	0.3	1	01/12/23 12:00	01/10/23	
Lithium	200.8	59.2	ug/L	0.10	0.10	1	01/12/23 12:00	01/10/23	
Manganese	200.8	2330	ug/L	0.20	0.04	1	01/12/23 12:00	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-FC-pH-5
Lab Code: K2300222-008

Service Request: K2300222
Date Collected: 01/04/23 08:35
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	51.6	ug/L	0.020	0.009	1	01/12/23 12:02	01/10/23	
Iron	200.8	13.3	ug/L	2.0	0.3	1	01/12/23 12:02	01/10/23	
Lithium	200.8	139	ug/L	0.10	0.10	1	01/12/23 12:02	01/10/23	
Manganese	200.8	2410	ug/L	0.20	0.04	1	01/12/23 12:02	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-FS
Lab Code: K2300222-009

Service Request: K2300222
Date Collected: 01/04/23 08:40
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	56.0	ug/L	0.020	0.009	1	01/12/23 12:03	01/10/23	
Iron	200.8	172000	ug/L	40	6	20	01/12/23 12:42	01/10/23	
Lithium	200.8	141	ug/L	0.10	0.10	1	01/12/23 12:03	01/10/23	
Manganese	200.8	3120	ug/L	0.20	0.04	1	01/12/23 12:03	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-FS-DUP
Lab Code: K2300222-010

Service Request: K2300222
Date Collected: 01/04/23 08:45
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	56.8	ug/L	0.020	0.009	1	01/12/23 12:05	01/10/23	
Iron	200.8	175000	ug/L	40	6	20	01/12/23 12:44	01/10/23	
Lithium	200.8	138	ug/L	0.10	0.10	1	01/12/23 12:05	01/10/23	
Manganese	200.8	3110	ug/L	0.20	0.04	1	01/12/23 12:05	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-FS-Mn-PM
Lab Code: K2300222-011

Service Request: K2300222
Date Collected: 01/04/23 08:50
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	53.2	ug/L	0.020	0.009	1	01/12/23 12:29	01/10/23	
Iron	200.8	78000	ug/L	40	6	20	01/12/23 13:09	01/10/23	
Lithium	200.8	136	ug/L	0.10	0.10	1	01/12/23 12:29	01/10/23	
Manganese	200.8	689	ug/L	1.0	0.04	1	01/12/23 12:29	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300222
Date Collected: 01/04/23 08:55
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-4V-FS-Mn-PM-pH-9.5
Lab Code: K2300222-012

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.045	ug/L	0.020	0.009	1	01/12/23 12:31	01/10/23	
Iron	200.8	47.4	ug/L	2.0	0.3	1	01/12/23 12:31	01/10/23	
Lithium	200.8	119	ug/L	0.10	0.10	1	01/12/23 12:31	01/10/23	
Manganese	200.8	1780	ug/L	1.0	0.04	1	01/12/23 12:31	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-GHT
Lab Code: K2300222-013

Service Request: K2300222
Date Collected: 01/04/23 09:00
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.050	ug/L	0.020	0.009	1	01/12/23 12:33	01/10/23	
Iron	200.8	14.0	ug/L	2.0	0.3	1	01/12/23 12:33	01/10/23	
Lithium	200.8	18.8	ug/L	0.10	0.10	1	01/12/23 12:33	01/10/23	
Manganese	200.8	4.83	ug/L	0.20	0.04	1	01/16/23 11:31	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300222
Date Collected: 01/04/23 09:05
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-4V-HT-MMO-pH-9.5
Lab Code: K2300222-014

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.024	ug/L	0.020	0.009	1	01/12/23 12:34	01/10/23	
Iron	200.8	34.0	ug/L	2.0	0.3	1	01/12/23 12:34	01/10/23	
Lithium	200.8	1.59	ug/L	0.10	0.10	1	01/12/23 12:34	01/10/23	
Manganese	200.8	68.5	ug/L	1.0	0.04	1	01/12/23 12:34	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-HT-pH-9.5
Lab Code: K2300222-015

Service Request: K2300222
Date Collected: 01/04/23 09:10
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.122	ug/L	0.020	0.009	1	01/12/23 12:36	01/10/23	
Iron	200.8	5.3	ug/L	2.0	0.3	1	01/12/23 12:36	01/10/23	
Lithium	200.8	27.4	ug/L	0.10	0.10	1	01/12/23 12:36	01/10/23	
Manganese	200.8	362	ug/L	1.0	0.04	1	01/12/23 12:36	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-4V-PM
Lab Code: K2300222-016

Service Request: K2300222
Date Collected: 01/04/23 09:15
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.015 J	ug/L	0.020	0.009	1	01/12/23 12:37	01/10/23	
Iron	200.8	2.7	ug/L	2.0	0.3	1	01/12/23 12:37	01/10/23	
Lithium	200.8	139	ug/L	0.10	0.10	1	01/12/23 12:37	01/10/23	
Manganese	200.8	77300	ug/L	20	0.8	20	01/12/23 13:11	01/10/23	



QC Summary Forms

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2300321-01

Service Request: K2300222
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	01/12/23 11:11	01/10/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	01/12/23 11:11	01/10/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	01/12/23 11:11	01/10/23	
Manganese	200.8	ND U	ug/L	0.20	0.04	1	01/12/23 11:11	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300222
Date Collected: 01/04/23
Date Received: 01/06/23
Date Analyzed: 01/12/23
Date Extracted: 01/10/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-4V-AIR
Lab Code: K2300222-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2300321-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Cobalt	59.8	80.8	25.0	84	70-130
Iron	1.0 J	50.7	50.0	100	70-130
Lithium	143	191	50.0	96	70-130
Manganese	2610	2630	25.0	60 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300222
Date Collected: 01/04/23
Date Received: 01/06/23
Date Analyzed: 01/12/23
Date Extracted: 01/10/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-4V-BC
Lab Code: K2300222-002
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2300321-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Cobalt	53.8	75.6	25.0	87	70-130
Iron	121	168	50.0	93	70-130
Lithium	143	198	50.0	109	70-130
Manganese	2560	2590	25.0	99 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300222
Date Collected: 01/04/23
Date Received: 01/06/23
Date Analyzed: 01/12/23

Replicate Sample Summary

Dissolved Metals

Sample Name: MR-BT-MW-4V-AIR
Lab Code: K2300222-001

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2300321-04 Result, Average, RPD, RPD Limit. Rows include Cobalt, Iron, Lithium, and Manganese.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300222
Date Collected: 01/04/23
Date Received: 01/06/23
Date Analyzed: 01/12/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-BT-MW-4V-BC
Lab Code: K2300222-002

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2300321-06 Result, Average, RPD, RPD Limit. Rows include Cobalt, Iron, Lithium, and Manganese.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300222
Date Analyzed: 01/12/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2300321-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cobalt	200.8	24.6	25.0	98	85-115
Iron	200.8	49.5	50.0	99	85-115
Lithium	200.8	49.9	50.0	100	85-115
Manganese	200.8	24.4	25.0	98	85-115



January 16, 2023

Service Request No:K2300225

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory January 06, 2023
For your reference, these analyses have been assigned our service request number **K2300225**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
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Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2300225
Date Received: 01/06/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Four water samples were received for analysis at ALS Environmental on 01/06/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____

Date 01/16/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-6V-As-Spike-20221228	Lab ID: K2300225-002
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	107		0.09	0.50	ug/L	200.8

CLIENT ID: MR-BT-Co-Stock-20221228	Lab ID: K2300225-003
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt	10600		0.05	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-4V-Co-Spike-20221228	Lab ID: K2300225-001
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	55.5		0.009	0.020	ug/L	200.8

CLIENT ID: MR-BT-MB	Lab ID: K2300225-004
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	1.01		0.009	0.020	ug/L	200.8
Iron, Dissolved	0.7	J	0.3	2.0	ug/L	200.8
Manganese, Dissolved	0.19	J	0.04	0.20	ug/L	200.8



Sample Receipt Information

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www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05


Service Request:K2300225

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2300225-001	MR-BT-MW-4V-Co-Spike-20221228	12/28/2022	0800
K2300225-002	MR-BT-MW-6V-As-Spike-20221228	12/28/2022	0830
K2300225-003	MR-BT-Co-Stock-20221228	12/28/2022	0805
K2300225-004	MR-BT-MB	1/5/2023	1300

V12300225

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: 503-972-5019					No. of Containers	Parameters										 Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219 Comments/Preservation					
Date:	1/6/2023					Dissolved Fe, Mn, Co, Li															
Project Name:	Miller					Dissolved Fe, Mn, As, Li															
Project Number:	221114-07.01 Task 05					Dissolved Fe, Mn, As, Li, Mo															
Project Manager:	Masa Kanematsu					Dissolved Fe, Mn, Li, Mo															
Phone Number:	503-972-5001 (backup number: 503-798-3456)					Dissolved Fe, Mn, As, Co, Li, Mo															
Shipment Method:	ALS Carrier				Dissolved As																
					Dissolved Co																
					Total Co																
Line	Field Sample ID	Collection		Matrix																	
		Date	Time																		
1	MR-BT-MW-4V-Co-Spike-20221228	12/28/2022	8:00	Water	1														HNO3-preserved. Field Filtered. ~ 50 ug/L Co		
2	MR-BT-MW-6V-As-Spike-20221228	12/28/2022	8:30	Water	1									X					HNO3-preserved. Field Filtered. ~ 100 ug/L As		
3	MR-BT-Co-Stock-20221228	12/28/2022	8:05	Water	1												X		HNO3 preserved. ~ 10 mg/L Co		
4	MR-BT-MB	1/5/2022	13:00	Water	1								X						HNO3 preserved. Field Filtered.		
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Some samples may have residual purple color associated with potassium permanganate (KMnO4). If those samples need to be diluted in order to not damage the ICP-MS, please do so and let Masa know the dilution factor.

Relinquished by:	Company:
Emma Nordlund	Anchor QEA
Signature/Print Name:	Date/Time:
<i>Emma Nordlund</i>	01/06/23 9:25
Relinquished by:	Company:
<i>Greg Rich</i>	ALS
Signature/Print Name:	Date/Time:
<i>Greg Rich</i>	1/6/23 1105

Received by:	
<i>Greg Rich</i>	ALS
Signature/Print Name:	
<i>Greg Rich</i>	1-6-23 0955
Received by:	
<i>Diane Pnu</i>	1/6/23 1130
Signature/Print Name:	
<i>P Pnu</i>	

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM MH

Cooler Receipt and Preservation Form

Client Anchor Service Request K23 00225
Received: 1/6/23 Opened: 1/6/23 By: PDP Unloaded: 1/6/23 By: PDP

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
4.9		1R01					
4.9		1R01					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____

- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Date on COC says 2022, should say 2023 on the 4th sample.
G:\SMO\2022 Forms SOP: SMO-GEN Reviewed: 12/9/2022



Miscellaneous Forms

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Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300225

Sample Name: MR-BT-MW-4V-Co-Spike-20221228
Lab Code: K2300225-001
Sample Matrix: Water

Date Collected: 12/28/22
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-6V-As-Spike-20221228
Lab Code: K2300225-002
Sample Matrix: Water

Date Collected: 12/28/22
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-Co-Stock-20221228
Lab Code: K2300225-003
Sample Matrix: Water

Date Collected: 12/28/22
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MB
Lab Code: K2300225-004
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300225
Date Collected: 12/28/22 08:00
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-4V-Co-Spike-20221228
Lab Code: K2300225-001

Basis: NA

Dissolved Metals

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Cobalt	200.8	55.5	ug/L	0.020	0.009	1	01/12/23 11:15	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300225
Date Collected: 12/28/22 08:30
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-6V-As-Spike-20221228
Lab Code: K2300225-002

Basis: NA

Dissolved Metals

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Arsenic	200.8	107	ug/L	0.50	0.09	1	01/12/23 11:17	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-Co-Stock-20221228
Lab Code: K2300225-003

Service Request: K2300225
Date Collected: 12/28/22 08:05
Date Received: 01/06/23 11:30
Basis: NA

Total Metals

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Cobalt	200.8	10600	ug/L	0.10	0.05	5	01/12/23 12:39	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MB
Lab Code: K2300225-004

Service Request: K2300225
Date Collected: 01/05/23 13:00
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 11:12	01/10/23	
Cobalt	200.8	1.01	ug/L	0.020	0.009	1	01/12/23 11:12	01/10/23	
Iron	200.8	0.7 J	ug/L	2.0	0.3	1	01/12/23 11:12	01/10/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	01/12/23 11:12	01/10/23	
Manganese	200.8	0.19 J	ug/L	0.20	0.04	1	01/12/23 11:12	01/10/23	
Molybdenum	200.8	ND U	ug/L	0.10	0.03	1	01/12/23 11:12	01/10/23	



QC Summary Forms

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2300321-01

Service Request: K2300225
Date Collected: NA
Date Received: NA
Basis: NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	01/12/23 11:11	01/10/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	01/12/23 11:11	01/10/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	01/12/23 11:11	01/10/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	01/12/23 11:11	01/10/23	
Manganese	200.8	ND U	ug/L	0.20	0.04	1	01/12/23 11:11	01/10/23	
Molybdenum	200.8	ND U	ug/L	0.10	0.03	1	01/12/23 11:11	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300225
Date Analyzed: 01/12/23

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2300321-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	49.1	50.0	98	85-115
Iron	200.8	49.5	50.0	99	85-115
Lithium	200.8	49.9	50.0	100	85-115
Manganese	200.8	24.4	25.0	98	85-115
Molybdenum	200.8	25.2	25.0	101	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300225
Date Analyzed: 01/12/23

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2300321-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cobalt	200.8	24.6	25.0	98	85-115



January 17, 2023

Service Request No:K2300227

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory January 06, 2023
For your reference, these analyses have been assigned our service request number **K2300227**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
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Phone (360) 577-7222 Fax (360) 425-9096
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Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2300227
Date Received: 01/06/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Sixteen water samples were received for analysis at ALS Environmental on 01/06/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Noel D. O'Connell

Approved by _____

Date 01/17/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-12-AIR	Lab ID: K2300227-001
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	1.3	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	122		0.10	0.10	ug/L	200.8
Manganese, Dissolved	204		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	728		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-BC	Lab ID: K2300227-002
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	5.1		0.3	2.0	ug/L	200.8
Lithium, Dissolved	120		0.10	0.10	ug/L	200.8
Manganese, Dissolved	557		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	696		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-CNTL	Lab ID: K2300227-003
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	2.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	121		0.10	0.10	ug/L	200.8
Manganese, Dissolved	548		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	703		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-FB	Lab ID: K2300227-004
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	10.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	89.5		0.10	0.10	ug/L	200.8
Manganese, Dissolved	9.40		0.04	0.20	ug/L	200.8
Molybdenum, Dissolved	859		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-FC	Lab ID: K2300227-005
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	32200		0.3	2.0	ug/L	200.8
Lithium, Dissolved	135		0.10	0.10	ug/L	200.8
Manganese, Dissolved	555		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	8.34		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-FC-Mn-PM	Lab ID: K2300227-006
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	10200		0.3	2.0	ug/L	200.8
Lithium, Dissolved	129		0.10	0.10	ug/L	200.8
Manganese, Dissolved	658		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	0.06	J	0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-FC-Mn-PM-pH-9.5	Lab ID: K2300227-007
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	16.5		0.3	2.0	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-12-FC-Mn-PM-pH-9.5	Lab ID: K2300227-007
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Lithium, Dissolved	107		0.10	0.10	ug/L	200.8
Manganese, Dissolved	5.07		0.04	0.20	ug/L	200.8
Molybdenum, Dissolved	16.7		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-FC-pH-5	Lab ID: K2300227-008
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	37.1		0.3	2.0	ug/L	200.8
Lithium, Dissolved	129		0.10	0.10	ug/L	200.8
Manganese, Dissolved	531		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	0.40		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-FS	Lab ID: K2300227-009
----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	135000		6	40	ug/L	200.8
Lithium, Dissolved	132		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1080		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	26.4		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-FS-DUP	Lab ID: K2300227-010
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	146000		6	40	ug/L	200.8
Lithium, Dissolved	132		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1060		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	106		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-FS-Mn-PM	Lab ID: K2300227-011
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	52600		6	40	ug/L	200.8
Lithium, Dissolved	123		0.10	0.10	ug/L	200.8
Manganese, Dissolved	2720		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	0.15		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-FS-Mn-PM-pH-9.5	Lab ID: K2300227-012
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	74.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	36.5		0.10	0.10	ug/L	200.8
Manganese, Dissolved	435		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	28.5		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-GHT	Lab ID: K2300227-013
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	35.9		0.3	2.0	ug/L	200.8
Lithium, Dissolved	14.3		0.10	0.10	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-BT-MW-12-GHT **Lab ID: K2300227-013**

Analyte	Results	Flag	MDL	MRL	Units	Method
Manganese, Dissolved	2.89		0.04	0.60	ug/L	200.8
Molybdenum, Dissolved	441		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-HT-MMO-pH-9.5 **Lab ID: K2300227-014**

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	25.5		0.3	2.0	ug/L	200.8
Lithium, Dissolved	3.66		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1520		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	28.9		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-HT-pH-9.5 **Lab ID: K2300227-015**

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	1.5	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	23.7		0.10	0.10	ug/L	200.8
Manganese, Dissolved	56.4		0.04	2.0	ug/L	200.8
Molybdenum, Dissolved	625		0.03	0.10	ug/L	200.8

CLIENT ID: MR-BT-MW-12-PM **Lab ID: K2300227-016**

Analyte	Results	Flag	MDL	MRL	Units	Method
Lithium, Dissolved	128		0.10	0.10	ug/L	200.8
Manganese, Dissolved	130000		0.8	40	ug/L	200.8
Molybdenum, Dissolved	0.53		0.03	0.10	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05


Service Request:K2300227

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2300227-001	MR-BT-MW-12-AIR	1/5/2023	0920
K2300227-002	MR-BT-MW-12-BC	1/5/2023	0925
K2300227-003	MR-BT-MW-12-CNTL	1/5/2023	0930
K2300227-004	MR-BT-MW-12-FB	1/5/2023	0935
K2300227-005	MR-BT-MW-12-FC	1/5/2023	0940
K2300227-006	MR-BT-MW-12-FC-Mn-PM	1/5/2023	0945
K2300227-007	MR-BT-MW-12-FC-Mn-PM-pH-9.5	1/5/2023	0950
K2300227-008	MR-BT-MW-12-FC-pH-5	1/5/2023	0955
K2300227-009	MR-BT-MW-12-FS	1/5/2023	1000
K2300227-010	MR-BT-MW-12-FS-DUP	1/5/2023	1005
K2300227-011	MR-BT-MW-12-FS-Mn-PM	1/5/2023	1010
K2300227-012	MR-BT-MW-12-FS-Mn-PM-pH-9.5	1/5/2023	1015
K2300227-013	MR-BT-MW-12-GHT	1/5/2023	1020
K2300227-014	MR-BT-MW-12-HT-MMO-pH-9.5	1/5/2023	1025
K2300227-015	MR-BT-MW-12-HT-pH-9.5	1/5/2023	1030
K2300227-016	MR-BT-MW-12-PM	1/5/2023	1035

W2300227

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: 503-972-5019					No. of Containers	Parameters										 Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219 Comments/Preservation						
Date:	1/6/2023					Dissolved Fe, Mn, Co, Li	Dissolved Fe, Mn, As, Li	Dissolved Fe, Mn, As, Li, Mo	Dissolved Fe, Mn, Li, Mo	Dissolved Fe, Mn, As, Co, Li, Mo	Dissolved As	Dissolved Co	Total Co									
Project Name:	Miller																					
Project Number:	221114-07.01 Task 05																					
Project Manager:	Masa Kanematsu																					
Phone Number:	503-972-5001 (backup number: 503-798-3456)																					
Shipment Method:	ALS Carrier																					
Line	Field Sample ID	Collection		Matrix																		
		Date	Time																			
1	MR-BT-MW-12-AIR	1/5/2022	9:20	Water																		
2	MR-BT-MW-12-BC	1/5/2022	9:25	Water	1				X													HNO3 preserved. Field Filtered.
3	MR-BT-MW-12-CNTL	1/5/2022	9:30	Water	1				X													HNO3 preserved. Field Filtered.
4	MR-BT-MW-12-FB	1/5/2022	9:35	Water	1				X													HNO3 preserved. Field Filtered.
5	MR-BT-MW-12-FC	1/5/2022	9:40	Water	1				X													HNO3 preserved. Field Filtered.
6	MR-BT-MW-12-FC-Mn-PM	1/5/2022	9:45	Water	1				X													HNO3 preserved. Field Filtered. KMnO4 added
7	MR-BT-MW-12-FC-Mn-PM-pH-9.5	1/5/2022	9:50	Water	1				X													HNO3 preserved. Field Filtered. KMnO4 added
8	MR-BT-MW-12-FC-pH-5	1/5/2022	9:55	Water	1				X													HNO3 preserved. Field Filtered.
9	MR-BT-MW-12-FS	1/5/2022	10:00	Water	1				X													HNO3 preserved. Field Filtered.
10	MR-BT-MW-12-FS-DUP	1/5/2022	10:05	Water	1				X													HNO3 preserved. Field Filtered.
11	MR-BT-MW-12-FS-Mn-PM	1/5/2022	10:10	Water	1				X													HNO3 preserved. Field Filtered. KMnO4 added
12	MR-BT-MW-12-FS-Mn-PM-pH-9.5	1/5/2022	10:15	Water	1				X													HNO3 preserved. Field Filtered. KMnO4 added
13	MR-BT-MW-12-GHT	1/5/2022	10:20	Water	1				X													HNO3 preserved. Field Filtered.
14	MR-BT-MW-12-HT-MMO-pH-9.5	1/5/2022	10:25	Water	1				X													HNO3 preserved. Field Filtered. KMnO4 added
15	MR-BT-MW-12-HT-pH-9.5	1/5/2022	10:30	Water	1				X													HNO3 preserved. Field Filtered.
16	MR-BT-MW-12-PM	1/5/2022	10:35	Water	1				X													HNO3 preserved. Field Filtered. KMnO4 added

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Some samples may have residual purple color associated with potassium permanganate (KMnO4). If those samples need to be diluted in order to not damage the ICP-MS, please do so and let Masa know the dilution factor.

Relinquished by:	Company:
Emma Nordlund	Anchor QEA
Signature/Print Name:	Date/Time:
<i>Emma Nordlund</i>	01/06/23 9:25

Received by:	
<i>Greg Rich</i>	ALS
Signature/Print Name:	
<i>Greg Rich</i>	1-6-23 09:55

Relinquished by:	Company:
<i>Greg Rich</i>	ALS
Signature/Print Name:	Date/Time:
<i>Greg Rich</i>	1/6/23 11:05

Received by:	
<i>Diane Pru</i>	1/6/23 11:30
Signature/Print Name:	
<i>P Pru</i>	

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Cooler Receipt and Preservation Form

Client Anchor Service Request **K23** 00227
 Received: 1/6/23 Opened: 1/6/23 By: PDP Unloaded: 1/6/23 By: PDP

1. Samples were received via? **USPS** **Fed Ex** **UPS** **DHL** **PDX** Courier **Hand Delivered**
 2. Samples were received in: (circle) Cooler **Box** **Envelope** **Other** NA
 3. Were custody seals on coolers? **NA** **Y** N If yes, how many and where? _____
 If present, were custody seals intact? **Y** **N** If present, were they signed and dated? **Y** **N**

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
4.9		1R01					
4.9		1R01					

4. Was a Temperature Blank present in cooler? **NA** Y **N** If yes, note the temperature in the appropriate column above:
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges? **NA** Y **N**
 If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA **Y** **N**

If applicable, tissue samples were received: **Frozen** **Partially Thawed** **Thawed**

6. Packing material: Inserts **Baggies** **Bubble Wrap** **Gel Packs** Wet Ice **Dry Ice** **Sleeves** _____

7. Were custody papers properly filled out (ink, signed, etc.)? **NA** Y **N**
 8. Were samples received in good condition (unbroken) **NA** Y **N**
 9. Were all sample labels complete (ie, analysis, preservation, etc.)? **NA** Y **N**
 10. Did all sample labels and tags agree with custody papers? **NA** Y **N**
 11. Were appropriate bottles/containers and volumes received for the tests indicated? **NA** Y **N**
 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below **NA** Y **N**
 13. Were VOA vials received without headspace? Indicate in the table below. NA **Y** **N**
 14. Was C12/Res negative? NA **Y** **N**
 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA **Y** **N**
 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA **Y** **N** Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Date on COC says 2022, should say 2023
on all samples SOP: SMO-GEN Reviewed: 12/9/2022



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300227

Sample Name: MR-BT-MW-12-AIR
Lab Code: K2300227-001
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-BC
Lab Code: K2300227-002
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-CNTL
Lab Code: K2300227-003
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FB
Lab Code: K2300227-004
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FB
Lab Code: K2300227-004.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300227

Sample Name: MR-BT-MW-12-FC
Lab Code: K2300227-005
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FC
Lab Code: K2300227-005.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FC-Mn-PM
Lab Code: K2300227-006
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FC-Mn-PM
Lab Code: K2300227-006.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FC-Mn-PM-pH-9.5
Lab Code: K2300227-007
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
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ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300227

Sample Name: MR-BT-MW-12-FC-Mn-PM-pH-9.5
Lab Code: K2300227-007.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FC-pH-5
Lab Code: K2300227-008
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FC-pH-5
Lab Code: K2300227-008.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FS
Lab Code: K2300227-009
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FS
Lab Code: K2300227-009.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300227

Sample Name: MR-BT-MW-12-FS-DUP
Lab Code: K2300227-010
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FS-DUP
Lab Code: K2300227-010.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FS-Mn-PM
Lab Code: K2300227-011
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FS-Mn-PM
Lab Code: K2300227-011.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-FS-Mn-PM-pH-9.5
Lab Code: K2300227-012
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300227

Sample Name: MR-BT-MW-12-FS-Mn-PM-pH-9.5
Lab Code: K2300227-012.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-GHT
Lab Code: K2300227-013
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-GHT
Lab Code: K2300227-013.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-HT-MMO-pH-9.5
Lab Code: K2300227-014
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-HT-MMO-pH-9.5
Lab Code: K2300227-014.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
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Analyzed By
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2300227

Sample Name: MR-BT-MW-12-HT-pH-9.5
Lab Code: K2300227-015
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-HT-pH-9.5
Lab Code: K2300227-015.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-PM
Lab Code: K2300227-016
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-BT-MW-12-PM
Lab Code: K2300227-016.R01
Sample Matrix: Water

Date Collected: 01/5/23
Date Received: 01/6/23

Analysis Method
200.8

Extracted/Digested By
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Analyzed By
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Sample Results

ALS Environmental—Kelso Laboratory
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Metals

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-AIR
Lab Code: K2300227-001

Service Request: K2300227
Date Collected: 01/05/23 09:20
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	1.3 J	ug/L	2.0	0.3	1	01/12/23 15:54	01/10/23	
Lithium	200.8	122	ug/L	0.10	0.10	1	01/12/23 15:54	01/10/23	
Manganese	200.8	204	ug/L	2.0	0.04	1	01/12/23 15:54	01/10/23	
Molybdenum	200.8	728	ug/L	0.10	0.03	1	01/12/23 15:54	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-BC
Lab Code: K2300227-002

Service Request: K2300227
Date Collected: 01/05/23 09:25
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	5.1	ug/L	2.0	0.3	1	01/12/23 15:59	01/10/23	
Lithium	200.8	120	ug/L	0.10	0.10	1	01/12/23 15:59	01/10/23	
Manganese	200.8	557	ug/L	2.0	0.04	1	01/12/23 15:59	01/10/23	
Molybdenum	200.8	696	ug/L	0.10	0.03	1	01/12/23 15:59	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-CNTL
Lab Code: K2300227-003

Service Request: K2300227
Date Collected: 01/05/23 09:30
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	2.7	ug/L	2.0	0.3	1	01/12/23 16:04	01/10/23	
Lithium	200.8	121	ug/L	0.10	0.10	1	01/12/23 16:04	01/10/23	
Manganese	200.8	548	ug/L	2.0	0.04	1	01/12/23 16:04	01/10/23	
Molybdenum	200.8	703	ug/L	0.10	0.03	1	01/12/23 16:04	01/10/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-FB
Lab Code: K2300227-004

Service Request: K2300227
Date Collected: 01/05/23 09:35
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	10.7	ug/L	2.0	0.3	1	01/12/23 16:05	01/10/23	
Lithium	200.8	89.5	ug/L	0.10	0.10	1	01/12/23 16:05	01/10/23	
Manganese	200.8	9.40	ug/L	0.20	0.04	1	01/16/23 11:40	01/10/23	
Molybdenum	200.8	859	ug/L	0.10	0.03	1	01/12/23 16:05	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-FC
Lab Code: K2300227-005

Service Request: K2300227
Date Collected: 01/05/23 09:40
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	32200	ug/L	2.0	0.3	1	01/12/23 16:23	01/10/23	
Lithium	200.8	135	ug/L	0.10	0.10	1	01/16/23 11:41	01/10/23	
Manganese	200.8	555	ug/L	2.0	0.04	1	01/12/23 16:23	01/10/23	
Molybdenum	200.8	8.34	ug/L	0.10	0.03	1	01/12/23 16:23	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-FC-Mn-PM
Lab Code: K2300227-006

Service Request: K2300227
Date Collected: 01/05/23 09:45
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	10200	ug/L	2.0	0.3	1	01/12/23 16:25	01/10/23	
Lithium	200.8	129	ug/L	0.10	0.10	1	01/16/23 11:43	01/10/23	
Manganese	200.8	658	ug/L	2.0	0.04	1	01/12/23 16:25	01/10/23	
Molybdenum	200.8	0.06 J	ug/L	0.10	0.03	1	01/12/23 16:25	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300227
Date Collected: 01/05/23 09:50
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-12-FC-Mn-PM-pH-9.5
Lab Code: K2300227-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	16.5	ug/L	2.0	0.3	1	01/12/23 16:27	01/10/23	
Lithium	200.8	107	ug/L	0.10	0.10	1	01/16/23 11:44	01/10/23	
Manganese	200.8	5.07	ug/L	0.20	0.04	1	01/16/23 11:44	01/10/23	
Molybdenum	200.8	16.7	ug/L	0.10	0.03	1	01/12/23 16:27	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-FC-pH-5
Lab Code: K2300227-008

Service Request: K2300227
Date Collected: 01/05/23 09:55
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	37.1	ug/L	2.0	0.3	1	01/12/23 16:28	01/10/23	
Lithium	200.8	129	ug/L	0.10	0.10	1	01/16/23 12:00	01/10/23	
Manganese	200.8	531	ug/L	2.0	0.04	1	01/12/23 16:28	01/10/23	
Molybdenum	200.8	0.40	ug/L	0.10	0.03	1	01/12/23 16:28	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-FS
Lab Code: K2300227-009

Service Request: K2300227
Date Collected: 01/05/23 10:00
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	135000	ug/L	40	6	20	01/12/23 17:07	01/10/23	
Lithium	200.8	132	ug/L	0.10	0.10	1	01/16/23 12:01	01/10/23	
Manganese	200.8	1080	ug/L	2.0	0.04	1	01/12/23 16:30	01/10/23	
Molybdenum	200.8	26.4	ug/L	0.10	0.03	1	01/12/23 16:30	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-FS-DUP
Lab Code: K2300227-010

Service Request: K2300227
Date Collected: 01/05/23 10:05
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	146000	ug/L	40	6	20	01/12/23 17:09	01/10/23	
Lithium	200.8	132	ug/L	0.10	0.10	1	01/16/23 12:03	01/10/23	
Manganese	200.8	1060	ug/L	2.0	0.04	1	01/12/23 16:31	01/10/23	
Molybdenum	200.8	106	ug/L	0.10	0.03	1	01/12/23 16:31	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-FS-Mn-PM
Lab Code: K2300227-011

Service Request: K2300227
Date Collected: 01/05/23 10:10
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	52600	ug/L	40	6	20	01/12/23 17:11	01/10/23	
Lithium	200.8	123	ug/L	0.10	0.10	1	01/16/23 12:04	01/10/23	
Manganese	200.8	2720	ug/L	2.0	0.04	1	01/12/23 16:33	01/10/23	
Molybdenum	200.8	0.15	ug/L	0.10	0.03	1	01/12/23 16:33	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300227
Date Collected: 01/05/23 10:15
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-12-FS-Mn-PM-pH-9.5
Lab Code: K2300227-012

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	74.7	ug/L	2.0	0.3	1	01/12/23 16:35	01/10/23	
Lithium	200.8	36.5	ug/L	0.10	0.10	1	01/16/23 12:06	01/10/23	
Manganese	200.8	435	ug/L	2.0	0.04	1	01/12/23 16:35	01/10/23	
Molybdenum	200.8	28.5	ug/L	0.10	0.03	1	01/12/23 16:35	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-GHT
Lab Code: K2300227-013

Service Request: K2300227
Date Collected: 01/05/23 10:20
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	35.9	ug/L	2.0	0.3	1	01/12/23 16:36	01/10/23	
Lithium	200.8	14.3	ug/L	0.10	0.10	1	01/16/23 12:07	01/10/23	
Manganese	200.8	2.89	ug/L	0.60	0.04	1	01/16/23 12:07	01/10/23	
Molybdenum	200.8	441	ug/L	0.10	0.03	1	01/12/23 16:36	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300227
Date Collected: 01/05/23 10:25
Date Received: 01/06/23 11:30

Sample Name: MR-BT-MW-12-HT-MMO-pH-9.5
Lab Code: K2300227-014

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	25.5	ug/L	2.0	0.3	1	01/12/23 16:38	01/10/23	
Lithium	200.8	3.66	ug/L	0.10	0.10	1	01/16/23 12:08	01/10/23	
Manganese	200.8	1520	ug/L	2.0	0.04	1	01/12/23 16:38	01/10/23	
Molybdenum	200.8	28.9	ug/L	0.10	0.03	1	01/12/23 16:38	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-HT-pH-9.5
Lab Code: K2300227-015

Service Request: K2300227
Date Collected: 01/05/23 10:30
Date Received: 01/06/23 11:30

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	1.5 J	ug/L	2.0	0.3	1	01/12/23 17:04	01/10/23	
Lithium	200.8	23.7	ug/L	0.10	0.10	1	01/16/23 12:10	01/10/23	
Manganese	200.8	56.4	ug/L	2.0	0.04	1	01/12/23 17:04	01/10/23	
Molybdenum	200.8	625	ug/L	0.10	0.03	1	01/12/23 17:04	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-BT-MW-12-PM
Lab Code: K2300227-016

Service Request: K2300227
Date Collected: 01/05/23 10:35
Date Received: 01/06/23 11:30
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	ND U	ug/L	2.0	0.3	1	01/12/23 17:06	01/10/23	
Lithium	200.8	128	ug/L	0.10	0.10	1	01/16/23 12:11	01/10/23	
Manganese	200.8	130000	ug/L	40	0.8	20	01/12/23 17:12	01/10/23	
Molybdenum	200.8	0.53	ug/L	0.10	0.03	1	01/12/23 17:06	01/10/23	



QC Summary Forms

ALS Environmental—Kelso Laboratory
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www.alsglobal.com



Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2300319-01

Service Request: K2300227
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	0.5 J	ug/L	2.0	0.3	1	01/12/23 15:51	01/10/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	01/12/23 15:51	01/10/23	
Manganese	200.8	0.07 J	ug/L	0.20	0.04	1	01/16/23 11:38	01/10/23	
Molybdenum	200.8	ND U	ug/L	0.10	0.03	1	01/12/23 15:51	01/10/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300227
Date Collected: 01/05/23
Date Received: 01/06/23
Date Analyzed: 01/12/23
Date Extracted: 01/10/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-12-AIR
Lab Code: K2300227-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2300319-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Iron	1.3 J	50.5	50.0	98	70-130
Lithium	122	166	50.0	86	70-130
Manganese	204	227	25.0	94 #	70-130
Molybdenum	728	743	25.0	63 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300227
Date Collected: 01/05/23
Date Received: 01/06/23
Date Analyzed: 01/12/23
Date Extracted: 01/10/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-BT-MW-12-BC
Lab Code: K2300227-002
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2300319-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Iron	5.1	55.5	50.0	101	70-130
Lithium	120	164	50.0	89	70-130
Manganese	557	579	25.0	86 #	70-130
Molybdenum	696	729	25.0	134 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300227
Date Collected: 01/05/23
Date Received: 01/06/23
Date Analyzed: 01/12/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-BT-MW-12-AIR
Lab Code: K2300227-001

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2300319-04 Result, Average, RPD, RPD Limit. Rows include Iron, Lithium, Manganese, and Molybdenum.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300227
Date Collected: 01/05/23
Date Received: 01/06/23
Date Analyzed: 01/12/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-BT-MW-12-BC
Lab Code: K2300227-002

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2300319-06 Result, Average, RPD, RPD Limit. Rows include Iron, Lithium, Manganese, and Molybdenum.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2300227
Date Analyzed: 01/12/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2300319-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron	200.8	49.2	50.0	98	85-115
Lithium	200.8	45.8	50.0	92	85-115
Manganese	200.8	25.4	25.0	102	85-115
Molybdenum	200.8	25.9	25.0	103	85-115



April 20, 2023

Service Request No:K2304316

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory April 13, 2023
For your reference, these analyses have been assigned our service request number **K2304316**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
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Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2304316
Date Received: 04/13/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twelve water samples were received for analysis at ALS Environmental on 04/13/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____

Date 04/20/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-3D-Mn-LDH-BUF	Lab ID: K2304316-007
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.15	J	0.09	0.50	ug/L	200.8
Iron, Dissolved	72.4		0.3	2.0	ug/L	200.8
Lithium, Dissolved	3.38		0.10	0.10	ug/L	200.8
Manganese, Dissolved	297000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-3D-Mn-LDH-BUF-DUP	Lab ID: K2304316-008
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.22	J	0.09	0.50	ug/L	200.8
Iron, Dissolved	32.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	5.00		0.10	0.10	ug/L	200.8
Manganese, Dissolved	293000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-3D-Mn-LDH	Lab ID: K2304316-010
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.12	J	0.09	0.50	ug/L	200.8
Iron, Dissolved	8.2		0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.74		0.10	0.10	ug/L	200.8
Manganese, Dissolved	310000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-3D-CTRL	Lab ID: K2304316-012
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	190		0.09	0.50	ug/L	200.8
Iron, Dissolved	2.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	88.8		0.10	0.10	ug/L	200.8
Manganese, Dissolved	1080		0.04	0.20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH-BUF	Lab ID: K2304316-001
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	1.26		0.009	0.020	ug/L	200.8
Iron, Dissolved	14.5		0.3	2.0	ug/L	200.8
Lithium, Dissolved	2.21		0.10	0.10	ug/L	200.8
Manganese, Dissolved	351000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH-BUF-DUP	Lab ID: K2304316-002
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	1.28		0.009	0.020	ug/L	200.8
Iron, Dissolved	2.0		0.3	2.0	ug/L	200.8
Lithium, Dissolved	2.57		0.10	0.10	ug/L	200.8
Manganese, Dissolved	348000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF	Lab ID: K2304316-003
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	4.62		0.009	0.020	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF	Lab ID: K2304316-003
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	23.4		0.3	2.0	ug/L	200.8
Lithium, Dissolved	5.99		0.10	0.10	ug/L	200.8
Manganese, Dissolved	260000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH	Lab ID: K2304316-004
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.595		0.009	0.020	ug/L	200.8
Iron, Dissolved	2.6		0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.00		0.10	0.10	ug/L	200.8
Manganese, Dissolved	285000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH	Lab ID: K2304316-005
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	2.68		0.009	0.020	ug/L	200.8
Iron, Dissolved	8.6		0.3	2.0	ug/L	200.8
Lithium, Dissolved	3.05		0.10	0.10	ug/L	200.8
Manganese, Dissolved	204000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-CTRL	Lab ID: K2304316-006
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	53.9		0.009	0.020	ug/L	200.8
Iron, Dissolved	142000		6	40	ug/L	200.8
Lithium, Dissolved	182		0.10	0.10	ug/L	200.8
Manganese, Dissolved	3500		0.04	0.20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-3D-Mn-Fe-LDH-BUF	Lab ID: K2304316-009
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	18.3		0.3	2.0	ug/L	200.8
Lithium, Dissolved	3.55		0.10	0.10	ug/L	200.8
Manganese, Dissolved	225000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-3D-Mn-Fe-LDH	Lab ID: K2304316-011
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	351		0.3	2.0	ug/L	200.8
Lithium, Dissolved	6.06		0.10	0.10	ug/L	200.8
Manganese, Dissolved	223000		4	20	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05


Service Request:K2304316

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2304316-001	MR-AP-OBT-MW-2-Mn-LDH-BUF	4/11/2023	0900
K2304316-002	MR-AP-OBT-MW-2-Mn-LDH-BUF-DUP	4/11/2023	0905
K2304316-003	MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF	4/11/2023	0910
K2304316-004	MR-AP-OBT-MW-2-Mn-LDH	4/11/2023	0915
K2304316-005	MR-AP-OBT-MW-2-Mn-Fe-LDH	4/11/2023	0920
K2304316-006	MR-AP-OBT-MW-2-CTRL	4/11/2023	0925
K2304316-007	MR-AP-OBT-MW-3D-Mn-LDH-BUF	4/11/2023	0930
K2304316-008	MR-AP-OBT-MW-3D-Mn-LDH-BUF-DUP	4/11/2023	0935
K2304316-009	MR-AP-OBT-MW-3D-Mn-Fe-LDH-BUF	4/11/2023	0940
K2304316-010	MR-AP-OBT-MW-3D-Mn-LDH	4/11/2023	0945
K2304316-011	MR-AP-OBT-MW-3D-Mn-Fe-LDH	4/11/2023	0950
K2304316-012	MR-AP-OBT-MW-3D-CTRL	4/11/2023	0955

42304316

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: 503-972-5019					No. of Containers	Parameters										 ANCHOR QEA Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219					
Date:	4/13/2023					Dissolved As, Li, Fe, Mn															
Project Name:	Miller					Dissolved Li, Co, Fe, Mn															
Project Number:	221114-07.01 Task 05					Dissolved Li, Mo, Fe, Mn															
Project Manager:	Masa Kanematsu					Dissolved As, Li, Mo, Fe, Mn															
Phone Number:	503-972-5001 (backup number: 503-798-3456)					Dissolved As															
Shipment Method:	ALS Carrier				Dissolved Co																
						Dissolved As, Li, Mo, Co, Fe, Mn															
Line	Field Sample ID	Collection		Matrix															Comments/Preservation		
		Date	Time																		
1	MR-AP-OBT-MW-2-Mn-LDH-BUF	4/11/2023	9:00	Water	1		X												HNO3-preserved. 0.45um filtered.		
2	MR-AP-OBT-MW-2-Mn-LDH-BUF-DUP	4/11/2023	9:05	Water	1		X												HNO3-preserved. 0.45um filtered.		
3	MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF	4/11/2023	9:10	Water	1		X												HNO3-preserved. 0.45um filtered.		
4	MR-AP-OBT-MW-2-Mn-LDH	4/11/2023	9:15	Water	1		X												HNO3-preserved. 0.45um filtered.		
5	MR-AP-OBT-MW-2-Mn-Fe-LDH	4/11/2023	9:20	Water	1		X												HNO3-preserved. 0.45um filtered.		
6	MR-AP-OBT-MW-2-CTRL	4/11/2023	9:25	Water	1		X												HNO3-preserved. 0.45um filtered.		
7	MR-AP-OBT-MW-3D-Mn-LDH-BUF	4/11/2023	9:30	Water	1	X													HNO3-preserved. 0.45um filtered.		
8	MR-AP-OBT-MW-3D-Mn-LDH-BUF-DUP	4/11/2023	9:35	Water	1	X													HNO3-preserved. 0.45um filtered.		
9	MR-AP-OBT-MW-3D-Mn-Fe-LDH-BUF	4/11/2023	9:40	Water	1	X													HNO3-preserved. 0.45um filtered.		
10	MR-AP-OBT-MW-3D-Mn-LDH	4/11/2023	9:45	Water	1	X													HNO3-preserved. 0.45um filtered.		
11	MR-AP-OBT-MW-3D-Mn-Fe-LDH	4/11/2023	9:50	Water	1	X													HNO3-preserved. 0.45um filtered.		
12	MR-AP-OBT-MW-3D-CTRL	4/11/2023	9:55	Water	1	X													HNO3-preserved. 0.45um filtered.		
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Please analyze on a 5-day TAT.

Relinquished by: Emma Nordlund	Company: Anchor QEA
Signature/Print Name: <i>Emma Nordlund</i>	Date/Time: 4/13/23 9:05
Relinquished by: <i>Greg Rich</i>	Company: ALS
Signature/Print Name: <i>Greg Rich</i>	Date/Time: 4-13-23 1300

Received by: <i>Greg Rich</i>	Company: ALS
Signature/Print Name: <i>Greg Rich</i>	Date/Time: 4-13-23 1035
Received by: <i>Victoria M. H. H.</i>	Company: ALS
Signature/Print Name: <i>Victoria M. H. H.</i>	Date/Time: 4/13/23 1300

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304316

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF
Lab Code: K2304316-001
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF
Lab Code: K2304316-001.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-DUP
Lab Code: K2304316-002
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-DUP
Lab Code: K2304316-002.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF
Lab Code: K2304316-003
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304316

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF
Lab Code: K2304316-003.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-2-Mn-LDH
Lab Code: K2304316-004
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-2-Mn-LDH
Lab Code: K2304316-004.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH
Lab Code: K2304316-005
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH
Lab Code: K2304316-005.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
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Analyzed By
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ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304316

Sample Name: MR-AP-OBT-MW-2-CTRL
Lab Code: K2304316-006
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-2-CTRL
Lab Code: K2304316-006.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-Mn-LDH-BUF
Lab Code: K2304316-007
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-Mn-LDH-BUF
Lab Code: K2304316-007.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-Mn-LDH-BUF-
Lab Code: K2304316-008
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
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Analyzed By
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304316

Sample Name: MR-AP-OBT-MW-3D-Mn-LDH-BUF-
Lab Code: K2304316-008.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-Mn-Fe-LDH-BUF
Lab Code: K2304316-009
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-Mn-Fe-LDH-BUF
Lab Code: K2304316-009.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-Mn-LDH
Lab Code: K2304316-010
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-Mn-LDH
Lab Code: K2304316-010.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
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Analyzed By
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304316

Sample Name: MR-AP-OBT-MW-3D-Mn-Fe-LDH
Lab Code: K2304316-011
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-Mn-Fe-LDH
Lab Code: K2304316-011.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-CTRL
Lab Code: K2304316-012
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-CTRL
Lab Code: K2304316-012.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23 09:00
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF
Lab Code: K2304316-001

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	1.26	ug/L	0.020	0.009	1	04/19/23 16:36	04/14/23	
Iron	200.8	14.5	ug/L	2.0	0.3	1	04/19/23 16:36	04/14/23	
Lithium	200.8	2.21	ug/L	0.10	0.10	1	04/19/23 16:36	04/14/23	
Manganese	200.8	351000	ug/L	20	4	100	04/19/23 17:52	04/14/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23 09:05
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-DUP
Lab Code: K2304316-002

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	1.28	ug/L	0.020	0.009	1	04/19/23 16:41	04/14/23	
Iron	200.8	2.0	ug/L	2.0	0.3	1	04/19/23 16:41	04/14/23	
Lithium	200.8	2.57	ug/L	0.10	0.10	1	04/19/23 16:41	04/14/23	
Manganese	200.8	348000	ug/L	20	4	100	04/19/23 17:56	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23 09:10
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF
Lab Code: K2304316-003

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	4.62	ug/L	0.020	0.009	1	04/19/23 16:46	04/14/23	
Iron	200.8	23.4	ug/L	2.0	0.3	1	04/19/23 16:46	04/14/23	
Lithium	200.8	5.99	ug/L	0.10	0.10	1	04/19/23 16:46	04/14/23	
Manganese	200.8	260000	ug/L	20	4	100	04/19/23 18:00	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-2-Mn-LDH
Lab Code: K2304316-004

Service Request: K2304316
Date Collected: 04/11/23 09:15
Date Received: 04/13/23 13:00
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.595	ug/L	0.020	0.009	1	04/19/23 16:47	04/14/23	
Iron	200.8	2.6	ug/L	2.0	0.3	1	04/19/23 16:47	04/14/23	
Lithium	200.8	1.00	ug/L	0.10	0.10	1	04/19/23 16:47	04/14/23	
Manganese	200.8	285000	ug/L	20	4	100	04/19/23 18:01	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23 09:20
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH
Lab Code: K2304316-005

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	2.68	ug/L	0.020	0.009	1	04/19/23 17:10	04/14/23	
Iron	200.8	8.6	ug/L	2.0	0.3	1	04/19/23 17:10	04/14/23	
Lithium	200.8	3.05	ug/L	0.10	0.10	1	04/19/23 17:10	04/14/23	
Manganese	200.8	204000	ug/L	20	4	100	04/19/23 18:03	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-2-CTRL
Lab Code: K2304316-006

Service Request: K2304316
Date Collected: 04/11/23 09:25
Date Received: 04/13/23 13:00
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	53.9	ug/L	0.020	0.009	1	04/19/23 17:12	04/14/23	
Iron	200.8	142000	ug/L	40	6	20	04/19/23 17:23	04/14/23	
Lithium	200.8	182	ug/L	0.10	0.10	1	04/19/23 17:12	04/14/23	
Manganese	200.8	3500	ug/L	0.20	0.04	1	04/19/23 17:46	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23 09:30
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-3D-Mn-LDH-BUF
Lab Code: K2304316-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.15 J	ug/L	0.50	0.09	1	04/19/23 17:13	04/14/23	
Iron	200.8	72.4	ug/L	2.0	0.3	1	04/19/23 17:13	04/14/23	
Lithium	200.8	3.38	ug/L	0.10	0.10	1	04/19/23 17:13	04/14/23	
Manganese	200.8	297000	ug/L	20	4	100	04/19/23 18:04	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23 09:35
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-3D-Mn-LDH-BUF-DUP
Lab Code: K2304316-008

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.22 J	ug/L	0.50	0.09	1	04/19/23 17:15	04/14/23	
Iron	200.8	32.7	ug/L	2.0	0.3	1	04/19/23 17:15	04/14/23	
Lithium	200.8	5.00	ug/L	0.10	0.10	1	04/19/23 17:15	04/14/23	
Manganese	200.8	293000	ug/L	20	4	100	04/19/23 18:08	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23 09:40
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-3D-Mn-Fe-LDH-BUF
Lab Code: K2304316-009

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 17:17	04/14/23	
Iron	200.8	18.3	ug/L	2.0	0.3	1	04/19/23 17:17	04/14/23	
Lithium	200.8	3.55	ug/L	0.10	0.10	1	04/19/23 17:17	04/14/23	
Manganese	200.8	225000	ug/L	20	4	100	04/19/23 18:09	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23 09:45
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-3D-Mn-LDH
Lab Code: K2304316-010

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.12 J	ug/L	0.50	0.09	1	04/19/23 17:18	04/14/23	
Iron	200.8	8.2	ug/L	2.0	0.3	1	04/19/23 17:18	04/14/23	
Lithium	200.8	1.74	ug/L	0.10	0.10	1	04/19/23 17:18	04/14/23	
Manganese	200.8	310000	ug/L	20	4	100	04/19/23 18:11	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23 09:50
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-3D-Mn-Fe-LDH
Lab Code: K2304316-011

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 17:20	04/14/23	
Iron	200.8	351	ug/L	2.0	0.3	1	04/19/23 17:20	04/14/23	
Lithium	200.8	6.06	ug/L	0.10	0.10	1	04/19/23 17:20	04/14/23	
Manganese	200.8	223000	ug/L	20	4	100	04/19/23 18:12	04/14/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-3D-CTRL
Lab Code: K2304316-012

Service Request: K2304316
Date Collected: 04/11/23 09:55
Date Received: 04/13/23 13:00
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	190	ug/L	0.50	0.09	1	04/19/23 17:21	04/14/23	
Iron	200.8	2.7	ug/L	2.0	0.3	1	04/19/23 17:21	04/14/23	
Lithium	200.8	88.8	ug/L	0.10	0.10	1	04/19/23 17:21	04/14/23	
Manganese	200.8	1080	ug/L	0.20	0.04	1	04/19/23 17:47	04/14/23	



QC Summary Forms

ALS Environmental—Kelso Laboratory
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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2306752-01

Service Request: K2304316
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 16:33	04/14/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	04/19/23 16:33	04/14/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	04/19/23 16:33	04/14/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	04/19/23 16:33	04/14/23	
Manganese	200.8	0.33	ug/L	0.20	0.04	1	04/19/23 17:43	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23
Date Received: 04/13/23
Date Analyzed: 04/19/23
Date Extracted: 04/14/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF
Lab Code: K2304316-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2306752-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	ND U	48.8	50.0	98	70-130
Cobalt	1.26	25.9	25.0	99	70-130
Iron	14.5	64.5	50.0	100	70-130
Lithium	2.21	54.0	50.0	103	70-130
Manganese	351000	352000	25	3838 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23
Date Received: 04/13/23
Date Analyzed: 04/19/23
Date Extracted: 04/14/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-DUP
Lab Code: K2304316-002
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2306752-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	ND U	47.8	50.0	96	70-130
Cobalt	1.28	25.3	25.0	96	70-130
Iron	2.0	51.6	50.0	99	70-130
Lithium	2.57	52.7	50.0	100	70-130
Manganese	348000	348000	25	561 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23
Date Received: 04/13/23
Date Analyzed: 04/19/23

Replicate Sample Summary

Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF
Lab Code: K2304316-001

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2306752-04 Result, Average, RPD, RPD Limit. Rows include Arsenic, Cobalt, Iron, Lithium, and Manganese.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Collected: 04/11/23
Date Received: 04/13/23
Date Analyzed: 04/19/23

Replicate Sample Summary

Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-DUP
Lab Code: K2304316-002

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate	Average	RPD	RPD Limit
					Sample KQ2306752-06 Result			
Arsenic	200.8	0.50	0.09	ND U	ND U	ND	-	20
Cobalt	200.8	0.020	0.009	1.28	1.26	1.27	2	20
Iron	200.8	2.0	0.3	2.0	1.7 J	1.9	16	20
Lithium	200.8	0.10	0.10	2.57	2.62	2.60	2	20
Manganese	200.8	20	4	348000	347000	348000	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304316
Date Analyzed: 04/19/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2306752-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	48.5	50.0	97	85-115
Cobalt	200.8	24.8	25.0	99	85-115
Iron	200.8	49.2	50.0	98	85-115
Lithium	200.8	48.1	50.0	96	85-115
Manganese	200.8	24.3	25.0	97	85-115



April 20, 2023

Service Request No:K2304318

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory April 13, 2023
For your reference, these analyses have been assigned our service request number **K2304318**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2304318
Date Received: 04/13/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twelve water samples were received for analysis at ALS Environmental on 04/13/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____

Date 04/20/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-6V-Mn-LDH-BUF-DUP	Lab ID: K2304318-008
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.15	J	0.09	0.50	ug/L	200.8
Iron, Dissolved	0.8	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	0.68		0.10	0.10	ug/L	200.8
Manganese, Dissolved	200000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-6V-CTRL	Lab ID: K2304318-012
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	208		0.09	0.50	ug/L	200.8
Iron, Dissolved	0.7	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	99.3		0.10	0.10	ug/L	200.8
Manganese, Dissolved	471		0.04	0.20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-4V-Mn-LDH-BUF	Lab ID: K2304318-001
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.538		0.009	0.020	ug/L	200.8
Iron, Dissolved	1.9	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.92		0.10	0.10	ug/L	200.8
Manganese, Dissolved	246000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-4V-Mn-LDH-BUF-DUP	Lab ID: K2304318-002
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.728		0.009	0.020	ug/L	200.8
Iron, Dissolved	1.2	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	2.75		0.10	0.10	ug/L	200.8
Manganese, Dissolved	255000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-4V-Mn-Fe-LDH-BUF	Lab ID: K2304318-003
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	1.58		0.009	0.020	ug/L	200.8
Iron, Dissolved	2.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	3.79		0.10	0.10	ug/L	200.8
Manganese, Dissolved	137000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-4V-Mn-LDH	Lab ID: K2304318-004
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.282		0.009	0.020	ug/L	200.8
Iron, Dissolved	1.6	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	0.41		0.10	0.10	ug/L	200.8
Manganese, Dissolved	179000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-4V-Mn-Fe-LDH	Lab ID: K2304318-005
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	1.43		0.009	0.020	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-4V-Mn-Fe-LDH	Lab ID: K2304318-005
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	3.3		0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.70		0.10	0.10	ug/L	200.8
Manganese, Dissolved	171000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-4V-CTRL	Lab ID: K2304318-006
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	50.2		0.009	0.020	ug/L	200.8
Iron, Dissolved	1.3	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	142		0.10	0.10	ug/L	200.8
Manganese, Dissolved	2570		0.04	0.20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-6V-Mn-LDH-BUF	Lab ID: K2304318-007
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	0.9	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	0.67		0.10	0.10	ug/L	200.8
Manganese, Dissolved	198000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-6V-Mn-Fe-LDH-BUF	Lab ID: K2304318-009
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	3.4		0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.25		0.10	0.10	ug/L	200.8
Manganese, Dissolved	108000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-6V-Mn-LDH	Lab ID: K2304318-010
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	5.2		0.3	2.0	ug/L	200.8
Lithium, Dissolved	0.26		0.10	0.10	ug/L	200.8
Manganese, Dissolved	167000		4	20	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-6V-Mn-Fe-LDH	Lab ID: K2304318-011
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	3.2		0.3	2.0	ug/L	200.8
Lithium, Dissolved	0.40		0.10	0.10	ug/L	200.8
Manganese, Dissolved	70700		4	20	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05


Service Request:K2304318

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2304318-001	MR-AP-OBT-MW-4V-Mn-LDH-BUF	4/11/2023	1000
K2304318-002	MR-AP-OBT-MW-4V-Mn-LDH-BUF-DUP	4/11/2023	1005
K2304318-003	MR-AP-OBT-MW-4V-Mn-Fe-LDH-BUF	4/11/2023	1010
K2304318-004	MR-AP-OBT-MW-4V-Mn-LDH	4/11/2023	1015
K2304318-005	MR-AP-OBT-MW-4V-Mn-Fe-LDH	4/11/2023	1020
K2304318-006	MR-AP-OBT-MW-4V-CTRL	4/11/2023	1025
K2304318-007	MR-AP-OBT-MW-6V-Mn-LDH-BUF	4/12/2023	0900
K2304318-008	MR-AP-OBT-MW-6V-Mn-LDH-BUF-DUP	4/12/2023	0905
K2304318-009	MR-AP-OBT-MW-6V-Mn-Fe-LDH-BUF	4/12/2023	0910
K2304318-010	MR-AP-OBT-MW-6V-Mn-LDH	4/12/2023	0915
K2304318-011	MR-AP-OBT-MW-6V-Mn-Fe-LDH	4/12/2023	0920
K2304318-012	MR-AP-OBT-MW-6V-CTRL	4/12/2023	0925

W2304318

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: 503-972-5019					No. of Containers	Parameters										 ANCHOR QEA Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219 Comments/Preservation								
Date:	4/13/2023					Dissolved As, Li, Fe, Mn																		
Project Name:	Miller					Dissolved Li, Co, Fe, Mn		X																
Project Number:	221114-07.01 Task 05					Dissolved Li, Mo, Fe, Mn																		
Project Manager:	Masa Kanematsu					Dissolved As, Li, Mo, Fe, Mn																		
Phone Number:	503-972-5001 (backup number: 503-798-3456)					Dissolved As																		
Shipment Method:	ALS Carrier				Dissolved Co																			
Line	Field Sample ID	Collection		Matrix																				
		Date	Time																					
1	MR-AP-OBT-MW-4V-Mn-LDH-BUF	4/11/2023	10:00	Water	1																	HNO3-preserved. 0.45um filtered.		
2	MR-AP-OBT-MW-4V-Mn-LDH-BUF-DUP	4/11/2023	10:05	Water	1																	HNO3-preserved. 0.45um filtered.		
3	MR-AP-OBT-MW-4V-Mn-Fe-LDH-BUF	4/11/2023	10:10	Water	1																	HNO3-preserved. 0.45um filtered.		
4	MR-AP-OBT-MW-4V-Mn-LDH	4/11/2023	10:15	Water	1																	HNO3-preserved. 0.45um filtered.		
5	MR-AP-OBT-MW-4V-Mn-Fe-LDH	4/11/2023	10:20	Water	1																	HNO3-preserved. 0.45um filtered.		
6	MR-AP-OBT-MW-4V-CTRL	4/11/2023	10:25	Water	1																	HNO3-preserved. 0.45um filtered.		
7	MR-AP-OBT-MW-6V-Mn-LDH-BUF	4/12/2023	9:00	Water	1	X																HNO3-preserved. 0.45um filtered.		
8	MR-AP-OBT-MW-6V-Mn-LDH-BUF-DUP	4/12/2023	9:05	Water	1	X																HNO3-preserved. 0.45um filtered.		
9	MR-AP-OBT-MW-6V-Mn-Fe-LDH-BUF	4/12/2023	9:10	Water	1	X																HNO3-preserved. 0.45um filtered.		
10	MR-AP-OBT-MW-6V-Mn-LDH	4/12/2023	9:15	Water	1	X																HNO3-preserved. 0.45um filtered.		
11	MR-AP-OBT-MW-6V-Mn-Fe-LDH	4/12/2023	9:20	Water	1	X																HNO3-preserved. 0.45um filtered.		
12	MR-AP-OBT-MW-6V-CTRL	4/12/2023	9:25	Water	1	X																HNO3-preserved. 0.45um filtered.		
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Please analyze on a 5-day TAT.

Relinquished by: Emma Nordlund	Company: Anchor QEA
Signature/Print Name: <i>Emma Nordlund</i>	Date/Time: 4/13/23 9:05
Relinquished by: <i>Greg Rich</i>	Company: ALS
Signature/Print Name: <i>Greg Rich</i>	Date/Time: 4-13-23 1300

Received by: <i>Greg Rich</i>	Company: ALS
Signature/Print Name: <i>Greg Rich</i>	Date/Time: 4-13-23 1035
Received by: <i>Vincent M. Molo</i>	Company: ALS
Signature/Print Name: <i>Vincent M. Molo</i>	Date/Time: 4/13/23 1300

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM MH

Cooler Receipt and Preservation Form

Client Anchok QEA Service Request K23 04318
Received: 4/13/23 Opened: 4/13/23 By: VM Unloaded: 4/13/23 By: VM

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>1.9</u>		<u>IR01</u>					

- 4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N
- If applicable, tissue samples were received: Frozen Partially Thawed Thawed
- 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:
		RUSH

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Did not Ph due to limited volume



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304318

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH-BUF
Lab Code: K2304318-001
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH-BUF
Lab Code: K2304318-001.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH-BUF-
Lab Code: K2304318-002
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH-BUF-
Lab Code: K2304318-002.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-4V-Mn-Fe-LDH-BUF
Lab Code: K2304318-003
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304318

Sample Name: MR-AP-OBT-MW-4V-Mn-Fe-LDH-BUF
Lab Code: K2304318-003.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH
Lab Code: K2304318-004
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH
Lab Code: K2304318-004.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-4V-Mn-Fe-LDH
Lab Code: K2304318-005
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-4V-Mn-Fe-LDH
Lab Code: K2304318-005.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304318

Sample Name: MR-AP-OBT-MW-4V-CTRL
Lab Code: K2304318-006
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-4V-CTRL
Lab Code: K2304318-006.R01
Sample Matrix: Water

Date Collected: 04/11/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-Mn-LDH-BUF
Lab Code: K2304318-007
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-Mn-LDH-BUF
Lab Code: K2304318-007.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-Mn-LDH-BUF-
Lab Code: K2304318-008
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304318

Sample Name: MR-AP-OBT-MW-6V-Mn-LDH-BUF-
Lab Code: K2304318-008.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-Mn-Fe-LDH-BUF
Lab Code: K2304318-009
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-Mn-Fe-LDH-BUF
Lab Code: K2304318-009.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-Mn-LDH
Lab Code: K2304318-010
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-Mn-LDH
Lab Code: K2304318-010.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
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Analyzed By
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ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304318

Sample Name: MR-AP-OBT-MW-6V-Mn-Fe-LDH
Lab Code: K2304318-011
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-Mn-Fe-LDH
Lab Code: K2304318-011.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-CTRL
Lab Code: K2304318-012
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-CTRL
Lab Code: K2304318-012.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/11/23 10:00
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH-BUF
Lab Code: K2304318-001

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.538	ug/L	0.020	0.009	1	04/19/23 17:38	04/14/23	
Iron	200.8	1.9 J	ug/L	2.0	0.3	1	04/19/23 17:38	04/14/23	
Lithium	200.8	1.92	ug/L	0.10	0.10	1	04/19/23 17:38	04/14/23	
Manganese	200.8	246000	ug/L	20	4	100	04/19/23 18:24	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/11/23 10:05
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH-BUF-DUP
Lab Code: K2304318-002

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.728	ug/L	0.020	0.009	1	04/19/23 17:43	04/14/23	
Iron	200.8	1.2 J	ug/L	2.0	0.3	1	04/19/23 17:43	04/14/23	
Lithium	200.8	2.75	ug/L	0.10	0.10	1	04/19/23 17:43	04/14/23	
Manganese	200.8	255000	ug/L	20	4	100	04/19/23 18:28	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/11/23 10:10
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-4V-Mn-Fe-LDH-BUF
Lab Code: K2304318-003

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	1.58	ug/L	0.020	0.009	1	04/19/23 17:48	04/14/23	
Iron	200.8	2.7	ug/L	2.0	0.3	1	04/19/23 17:48	04/14/23	
Lithium	200.8	3.79	ug/L	0.10	0.10	1	04/19/23 17:48	04/14/23	
Manganese	200.8	137000	ug/L	20	4	100	04/19/23 18:32	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-4V-Mn-LDH
Lab Code: K2304318-004

Service Request: K2304318
Date Collected: 04/11/23 10:15
Date Received: 04/13/23 13:00
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.282	ug/L	0.020	0.009	1	04/19/23 17:49	04/14/23	
Iron	200.8	1.6 J	ug/L	2.0	0.3	1	04/19/23 17:49	04/14/23	
Lithium	200.8	0.41	ug/L	0.10	0.10	1	04/19/23 17:49	04/14/23	
Manganese	200.8	179000	ug/L	20	4	100	04/19/23 18:42	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/11/23 10:20
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-4V-Mn-Fe-LDH
Lab Code: K2304318-005

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	1.43	ug/L	0.020	0.009	1	04/19/23 18:08	04/14/23	
Iron	200.8	3.3	ug/L	2.0	0.3	1	04/19/23 18:08	04/14/23	
Lithium	200.8	1.70	ug/L	0.10	0.10	1	04/19/23 18:08	04/14/23	
Manganese	200.8	171000	ug/L	20	4	100	04/19/23 18:44	04/14/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-4V-CTRL
Lab Code: K2304318-006

Service Request: K2304318
Date Collected: 04/11/23 10:25
Date Received: 04/13/23 13:00
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	50.2	ug/L	0.020	0.009	1	04/19/23 18:09	04/14/23	
Iron	200.8	1.3 J	ug/L	2.0	0.3	1	04/19/23 18:09	04/14/23	
Lithium	200.8	142	ug/L	0.10	0.10	1	04/19/23 18:09	04/14/23	
Manganese	200.8	2570	ug/L	0.20	0.04	1	04/19/23 18:18	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/12/23 09:00
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-6V-Mn-LDH-BUF
Lab Code: K2304318-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 18:11	04/14/23	
Iron	200.8	0.9 J	ug/L	2.0	0.3	1	04/19/23 18:11	04/14/23	
Lithium	200.8	0.67	ug/L	0.10	0.10	1	04/19/23 18:11	04/14/23	
Manganese	200.8	198000	ug/L	20	4	100	04/19/23 18:50	04/14/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/12/23 09:05
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-6V-Mn-LDH-BUF-DUP
Lab Code: K2304318-008

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.15 J	ug/L	0.50	0.09	1	04/19/23 18:20	04/14/23	
Iron	200.8	0.8 J	ug/L	2.0	0.3	1	04/19/23 18:20	04/14/23	
Lithium	200.8	0.68	ug/L	0.10	0.10	1	04/19/23 18:20	04/14/23	
Manganese	200.8	200000	ug/L	20	4	100	04/19/23 18:52	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/12/23 09:10
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-6V-Mn-Fe-LDH-BUF
Lab Code: K2304318-009

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 18:14	04/14/23	
Iron	200.8	3.4	ug/L	2.0	0.3	1	04/19/23 18:14	04/14/23	
Lithium	200.8	1.25	ug/L	0.10	0.10	1	04/19/23 18:14	04/14/23	
Manganese	200.8	108000	ug/L	20	4	100	04/19/23 18:53	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/12/23 09:15
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-6V-Mn-LDH
Lab Code: K2304318-010

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 18:16	04/14/23	
Iron	200.8	5.2	ug/L	2.0	0.3	1	04/19/23 18:16	04/14/23	
Lithium	200.8	0.26	ug/L	0.10	0.10	1	04/19/23 18:16	04/14/23	
Manganese	200.8	167000	ug/L	20	4	100	04/19/23 18:54	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/12/23 09:20
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-6V-Mn-Fe-LDH
Lab Code: K2304318-011

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 18:17	04/14/23	
Iron	200.8	3.2	ug/L	2.0	0.3	1	04/19/23 18:17	04/14/23	
Lithium	200.8	0.40	ug/L	0.10	0.10	1	04/19/23 18:17	04/14/23	
Manganese	200.8	70700	ug/L	20	4	100	04/19/23 18:55	04/14/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-6V-CTRL
Lab Code: K2304318-012

Service Request: K2304318
Date Collected: 04/12/23 09:25
Date Received: 04/13/23 13:00

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	208	ug/L	0.50	0.09	1	04/19/23 18:19	04/14/23	
Iron	200.8	0.7 J	ug/L	2.0	0.3	1	04/19/23 18:19	04/14/23	
Lithium	200.8	99.3	ug/L	0.10	0.10	1	04/19/23 18:19	04/14/23	
Manganese	200.8	471	ug/L	0.20	0.04	1	04/19/23 18:21	04/14/23	



QC Summary Forms

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Metals

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2306753-01

Service Request: K2304318
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 17:35	04/14/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	04/19/23 17:35	04/14/23	
Iron	200.8	1.1 J	ug/L	2.0	0.3	1	04/19/23 17:35	04/14/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	04/19/23 17:35	04/14/23	
Manganese	200.8	0.22	ug/L	0.20	0.04	1	04/19/23 18:16	04/14/23	

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dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/11/23
Date Received: 04/13/23
Date Analyzed: 04/19/23
Date Extracted: 04/14/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH-BUF
Lab Code: K2304318-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2306753-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	ND U	47.8	50.0	96	70-130
Cobalt	0.538	24.6	25.0	96	70-130
Iron	1.9 J	51.3	50.0	99	70-130
Lithium	1.92	51.8	50.0	100	70-130
Manganese	246000	251000	25	20237 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/11/23
Date Received: 04/13/23
Date Analyzed: 04/19/23
Date Extracted: 04/14/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH-BUF-DUP
Lab Code: K2304318-002
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2306753-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	ND U	46.3	50.0	93	70-130
Cobalt	0.728	24.1	25.0	93	70-130
Iron	1.2 J	49.2	50.0	96	70-130
Lithium	2.75	52.9	50.0	100	70-130
Manganese	255000	253000	25	-9332 #	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/11/23
Date Received: 04/13/23
Date Analyzed: 04/19/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH-BUF
Lab Code: K2304318-001

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
					KQ2306753-04 Result			
Arsenic	200.8	0.50	0.09	ND U	ND U	ND	-	20
Cobalt	200.8	0.020	0.009	0.538	0.539	0.539	<1	20
Iron	200.8	2.0	0.3	1.9 J	1.6 J	1.8	17	20
Lithium	200.8	0.10	0.10	1.92	1.92	1.92	<1	20
Manganese	200.8	20	4	246000	252000	249000	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Collected: 04/11/23
Date Received: 04/13/23
Date Analyzed: 04/19/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-4V-Mn-LDH-BUF-DUP
Lab Code: K2304318-002

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
					KQ2306753-06 Result			
Arsenic	200.8	0.50	0.09	ND U	ND U	ND	-	20
Cobalt	200.8	0.020	0.009	0.728	0.713	0.721	2	20
Iron	200.8	2.0	0.3	1.2 J	1.0 J	1.1	18	20
Lithium	200.8	0.10	0.10	2.75	2.67	2.71	3	20
Manganese	200.8	20	4	255000	258000	257000	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304318
Date Analyzed: 04/19/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2306753-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	47.6	50.0	95	85-115
Cobalt	200.8	24.8	25.0	99	85-115
Iron	200.8	49.8	50.0	100	85-115
Lithium	200.8	48.8	50.0	98	85-115
Manganese	200.8	24.4	25.0	97	85-115



April 20, 2023

Service Request No:K2304319

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory April 13, 2023
For your reference, these analyses have been assigned our service request number **K2304319**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

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SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-10-CTRL	Lab ID: K2304319-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	14.4		0.09	0.50	ug/L	200.8
Iron, Dissolved	0.8	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	254		0.10	0.20	ug/L	200.8
Manganese, Dissolved	1000		0.04	0.20	ug/L	200.8
Molybdenum, Dissolved	887		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-3D-ARSENIC-SPIKE	Lab ID: K2304319-014
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	203		0.09	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-6V-ARSENIC-SPIKE	Lab ID: K2304319-015
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	211		0.09	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MB	Lab ID: K2304319-013
--------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.014	J	0.009	0.020	ug/L	200.8
Iron, Dissolved	5.9		0.3	2.0	ug/L	200.8
Lithium, Dissolved	0.33		0.10	0.20	ug/L	200.8
Manganese, Dissolved	0.63		0.04	0.20	ug/L	200.8
Molybdenum, Dissolved	0.47		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-4V-COBALT-SPIKE	Lab ID: K2304319-016
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	50.9		0.009	0.020	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF	Lab ID: K2304319-001
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	1.0	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.58		0.10	0.20	ug/L	200.8
Manganese, Dissolved	230000		4	20	ug/L	200.8
Molybdenum, Dissolved	12.5		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP	Lab ID: K2304319-002
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	0.4	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	2.10		0.10	0.20	ug/L	200.8
Manganese, Dissolved	228000		4	20	ug/L	200.8
Molybdenum, Dissolved	11.8		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF	Lab ID: K2304319-003
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	9.8		0.3	2.0	ug/L	200.8
Lithium, Dissolved	3.86		0.10	0.20	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF	Lab ID: K2304319-003
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Manganese, Dissolved	120000		4	20	ug/L	200.8
Molybdenum, Dissolved	8.43		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH	Lab ID: K2304319-004
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	0.4	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	0.87		0.10	0.20	ug/L	200.8
Manganese, Dissolved	143000		4	20	ug/L	200.8
Molybdenum, Dissolved	9.32		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH	Lab ID: K2304319-005
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	3.0		0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.22		0.10	0.20	ug/L	200.8
Manganese, Dissolved	85400		4	20	ug/L	200.8
Molybdenum, Dissolved	9.07		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-12-Mn-LDH-BUF	Lab ID: K2304319-007
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	1.2	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.48		0.10	0.20	ug/L	200.8
Manganese, Dissolved	204000		4	20	ug/L	200.8
Molybdenum, Dissolved	12.8		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-12-Mn-LDH-BUF-DUP	Lab ID: K2304319-008
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	0.5	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	1.38		0.10	0.20	ug/L	200.8
Manganese, Dissolved	197000		4	20	ug/L	200.8
Molybdenum, Dissolved	12.3		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-12-Mn-Fe-LDH-BUF	Lab ID: K2304319-009
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	1.5	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	2.96		0.10	0.20	ug/L	200.8
Manganese, Dissolved	102000		4	20	ug/L	200.8
Molybdenum, Dissolved	8.65		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-12-Mn-LDH	Lab ID: K2304319-010
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	0.8	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	0.61		0.10	0.20	ug/L	200.8
Manganese, Dissolved	130000		4	20	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-12-Mn-LDH	Lab ID: K2304319-010
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Molybdenum, Dissolved	9.71		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-12-Mn-Fe-LDH	Lab ID: K2304319-011
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	2.5		0.3	2.0	ug/L	200.8
Lithium, Dissolved	0.89		0.10	0.20	ug/L	200.8
Manganese, Dissolved	65500		4	20	ug/L	200.8
Molybdenum, Dissolved	9.10		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-12-CTRL	Lab ID: K2304319-012
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	1.3	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	142		0.10	0.20	ug/L	200.8
Manganese, Dissolved	527		0.04	0.20	ug/L	200.8
Molybdenum, Dissolved	674		0.03	0.10	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05


Service Request:K2304319

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2304319-001	MR-AP-OBT-MW-10-Mn-LDH-BUF	4/12/2023	0930
K2304319-002	MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP	4/12/2023	0935
K2304319-003	MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF	4/12/2023	0940
K2304319-004	MR-AP-OBT-MW-10-Mn-LDH	4/12/2023	0945
K2304319-005	MR-AP-OBT-MW-10-Mn-Fe-LDH	4/12/2023	0950
K2304319-006	MR-AP-OBT-MW-10-CTRL	4/12/2023	0955
K2304319-007	MR-AP-OBT-MW-12-Mn-LDH-BUF	4/12/2023	1000
K2304319-008	MR-AP-OBT-MW-12-Mn-LDH-BUF-DUP	4/12/2023	1005
K2304319-009	MR-AP-OBT-MW-12-Mn-Fe-LDH-BUF	4/12/2023	1010
K2304319-010	MR-AP-OBT-MW-12-Mn-LDH	4/12/2023	1015
K2304319-011	MR-AP-OBT-MW-12-Mn-Fe-LDH	4/12/2023	1020
K2304319-012	MR-AP-OBT-MW-12-CTRL	4/12/2023	1025
K2304319-013	MR-AP-OBT-MB	4/12/2023	1030
K2304319-014	MR-AP-OBT-MW-3D-ARSENIC-SPIKE	4/4/2023	1000
K2304319-015	MR-AP-OBT-MW-6V-ARSENIC-SPIKE	4/5/2023	1000
K2304319-016	MR-AP-OBT-MW-4V-COBALT-SPIKE	4/5/2023	1005

W2304319

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: 503-972-5019					No. of Containers	Parameters													 ANCHOR QEA Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219 Comments/Preservation		
Date:	4/13/2023					Dissolved As, Li, Fe, Mn	Dissolved Li, Co, Fe, Mn	Dissolved Li, Mo, Fe, Mn	Dissolved As, Li, Mo, Fe, Mn	Dissolved As	Dissolved Co	Dissolved As, Li, Mo, Co, Fe, Mn									
Project Name:	Miller																				
Project Number:	221114-07.01 Task 05																				
Project Manager:	Masa Kanematsu																				
Phone Number:	503-972-5001 (backup number: 503-798-3456)																				
Shipment Method:	ALS Carrier																				
Line	Field Sample ID	Collection		Matrix																	
		Date	Time																		
1	MR-AP-OBT-MW-10-Mn-LDH-BUF	4/12/2023	9:30	Water	1				X											HNO3-preserved. 0.45um filtered.	
2	MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP	4/12/2023	9:35	Water	1				X											HNO3-preserved. 0.45um filtered.	
3	MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF	4/12/2023	9:40	Water	1				X											HNO3-preserved. 0.45um filtered.	
4	MR-AP-OBT-MW-10-Mn-LDH	4/12/2023	9:45	Water	1				X											HNO3-preserved. 0.45um filtered.	
5	MR-AP-OBT-MW-10-Mn-Fe-LDH	4/12/2023	9:50	Water	1				X											HNO3-preserved. 0.45um filtered.	
6	MR-AP-OBT-MW-10-CTRL	4/12/2023	9:55	Water	1				X											HNO3-preserved. 0.45um filtered.	
7	MR-AP-OBT-MW-12-Mn-LDH-BUF	4/12/2023	10:00	Water	1			X												HNO3-preserved. 0.45um filtered.	
8	MR-AP-OBT-MW-12-Mn-LDH-BUF-DUP	4/12/2023	10:05	Water	1			X												HNO3-preserved. 0.45um filtered.	
9	MR-AP-OBT-MW-12-Mn-Fe-LDH-BUF	4/12/2023	10:10	Water	1			X												HNO3-preserved. 0.45um filtered.	
10	MR-AP-OBT-MW-12-Mn-LDH	4/12/2023	10:15	Water	1			X												HNO3-preserved. 0.45um filtered.	
11	MR-AP-OBT-MW-12-Mn-Fe-LDH	4/12/2023	10:20	Water	1			X												HNO3-preserved. 0.45um filtered.	
12	MR-AP-OBT-MW-12-CTRL	4/12/2023	10:25	Water	1			X												HNO3-preserved. 0.45um filtered.	
13	MR-AP-OBT-MB	4/12/2023	10:30	Water	1						X									HNO3-preserved. 0.45um filtered.	
14	MR-AP-OBT-MW-3D-ARSENIC-SPIKE	4/4/2023	10:00	Water	1				X											HNO3-preserved. 0.45um filtered. ~ 200ug/L As	
15	MR-AP-OBT-MW-6V-ARSENIC-SPIKE	4/5/2023	10:00	Water	1				X											HNO3-preserved. 0.45um filtered. ~ 200ug/L As	
16	MR-AP-OBT-MW-4V-COBALT-SPIKE	4/5/2023	10:05	Water	1					X										HNO3-preserved. 0.45um filtered. ~ 50ug/L Co	
17																					
18																					
19																					
20																					

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Please analyze on a 5-day TAT.

Relinquished by: Emma Nordlund
 Signature/Print Name: *Emma Nordlund*
 Company: Anchor QEA
 Date/Time: 4/13/23 9:05

Relinquished by: *Greg Rich*
 Signature/Print Name: *Greg Rich*
 Company: ALS
 Date/Time: 4-13-23 1300

Received by: *Greg Rich*
 Signature/Print Name: *Greg Rich*
 Company: ALS
 Date/Time: 4-13-23 1035

Received by: *Wendy M. Folio*
 Signature/Print Name: *Wendy M. Folio*
 Company: ALS
 Date/Time: 4/13/23 1300

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM MH

Cooler Receipt and Preservation Form

Client Anchok OEA Service Request K23 04319
Received: 4/13/23 Opened: 4/13/23 By: Vm Unloaded: 4/13/23 By: Vm

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>1.9</u>		<u>IR01</u>					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N
- If applicable, tissue samples were received: Frozen Partially Thawed Thawed
6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
13. Were VOA vials received without headspace? Indicate in the table below NA Y N
14. Was C12/Res negative? NA Y N
15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

RUSH

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Did not Ph due to limited volume



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdwlabservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304319

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF
Lab Code: K2304319-001
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF
Lab Code: K2304319-001.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-
Lab Code: K2304319-002
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-
Lab Code: K2304319-002.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF
Lab Code: K2304319-003
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304319

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF
Lab Code: K2304319-003.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-10-Mn-LDH
Lab Code: K2304319-004
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-10-Mn-LDH
Lab Code: K2304319-004.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH
Lab Code: K2304319-005
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH
Lab Code: K2304319-005.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304319

Sample Name: MR-AP-OBT-MW-10-CTRL
Lab Code: K2304319-006
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-10-CTRL
Lab Code: K2304319-006.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-12-Mn-LDH-BUF
Lab Code: K2304319-007
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-12-Mn-LDH-BUF
Lab Code: K2304319-007.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-12-Mn-LDH-BUF-
Lab Code: K2304319-008
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304319

Sample Name: MR-AP-OBT-MW-12-Mn-LDH-BUF-
Lab Code: K2304319-008.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-12-Mn-Fe-LDH-BUF
Lab Code: K2304319-009
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-12-Mn-Fe-LDH-BUF
Lab Code: K2304319-009.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-12-Mn-LDH
Lab Code: K2304319-010
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-12-Mn-LDH
Lab Code: K2304319-010.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304319

Sample Name: MR-AP-OBT-MW-12-Mn-Fe-LDH
Lab Code: K2304319-011
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-12-Mn-Fe-LDH
Lab Code: K2304319-011.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-12-CTRL
Lab Code: K2304319-012
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-12-CTRL
Lab Code: K2304319-012.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MB
Lab Code: K2304319-013
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2304319

Sample Name: MR-AP-OBT-MB
Lab Code: K2304319-013.R01
Sample Matrix: Water

Date Collected: 04/12/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-3D-ARSENIC-SPIKE
Lab Code: K2304319-014
Sample Matrix: Water

Date Collected: 04/4/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-6V-ARSENIC-SPIKE
Lab Code: K2304319-015
Sample Matrix: Water

Date Collected: 04/5/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER

Sample Name: MR-AP-OBT-MW-4V-COBALT-SPIKE
Lab Code: K2304319-016
Sample Matrix: Water

Date Collected: 04/5/23
Date Received: 04/13/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
EMCALLISTER



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23 09:30
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF
Lab Code: K2304319-001

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 13:53	04/14/23	
Iron	200.8	1.0 J	ug/L	2.0	0.3	1	04/19/23 13:53	04/14/23	
Lithium	200.8	1.58	ug/L	0.20	0.10	1	04/19/23 13:53	04/14/23	
Manganese	200.8	230000	ug/L	20	4	100	04/19/23 17:08	04/14/23	
Molybdenum	200.8	12.5	ug/L	0.10	0.03	1	04/19/23 13:53	04/14/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23 09:35
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP
Lab Code: K2304319-002

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 13:58	04/14/23	
Iron	200.8	0.4 J	ug/L	2.0	0.3	1	04/19/23 13:58	04/14/23	
Lithium	200.8	2.10	ug/L	0.20	0.10	1	04/19/23 13:58	04/14/23	
Manganese	200.8	228000	ug/L	20	4	100	04/19/23 17:11	04/14/23	
Molybdenum	200.8	11.8	ug/L	0.10	0.03	1	04/19/23 13:58	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23 09:40
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF
Lab Code: K2304319-003

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 14:03	04/14/23	
Iron	200.8	9.8	ug/L	2.0	0.3	1	04/19/23 14:03	04/14/23	
Lithium	200.8	3.86	ug/L	0.20	0.10	1	04/19/23 14:03	04/14/23	
Manganese	200.8	120000	ug/L	20	4	100	04/19/23 17:15	04/14/23	
Molybdenum	200.8	8.43	ug/L	0.10	0.03	1	04/19/23 14:03	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-10-Mn-LDH
Lab Code: K2304319-004

Service Request: K2304319
Date Collected: 04/12/23 09:45
Date Received: 04/13/23 13:00
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 14:05	04/14/23	
Iron	200.8	0.4 J	ug/L	2.0	0.3	1	04/19/23 14:05	04/14/23	
Lithium	200.8	0.87	ug/L	0.20	0.10	1	04/19/23 14:05	04/14/23	
Manganese	200.8	143000	ug/L	20	4	100	04/19/23 17:16	04/14/23	
Molybdenum	200.8	9.32	ug/L	0.10	0.03	1	04/19/23 14:05	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23 09:50
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH
Lab Code: K2304319-005

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 14:32	04/14/23	
Iron	200.8	3.0	ug/L	2.0	0.3	1	04/19/23 14:32	04/14/23	
Lithium	200.8	1.22	ug/L	0.20	0.10	1	04/19/23 14:32	04/14/23	
Manganese	200.8	85400	ug/L	20	4	100	04/19/23 17:18	04/14/23	
Molybdenum	200.8	9.07	ug/L	0.10	0.03	1	04/19/23 14:32	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-10-CTRL
Lab Code: K2304319-006

Service Request: K2304319
Date Collected: 04/12/23 09:55
Date Received: 04/13/23 13:00
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	14.4	ug/L	0.50	0.09	1	04/19/23 14:34	04/14/23	
Iron	200.8	0.8 J	ug/L	2.0	0.3	1	04/19/23 14:34	04/14/23	
Lithium	200.8	254	ug/L	0.20	0.10	1	04/19/23 14:34	04/14/23	
Manganese	200.8	1000	ug/L	0.20	0.04	1	04/19/23 17:04	04/14/23	
Molybdenum	200.8	887	ug/L	0.10	0.03	1	04/19/23 14:34	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23 10:00
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-12-Mn-LDH-BUF
Lab Code: K2304319-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	1.2 J	ug/L	2.0	0.3	1	04/19/23 14:35	04/14/23	
Lithium	200.8	1.48	ug/L	0.20	0.10	1	04/19/23 14:35	04/14/23	
Manganese	200.8	204000	ug/L	20	4	100	04/19/23 17:19	04/14/23	
Molybdenum	200.8	12.8	ug/L	0.10	0.03	1	04/19/23 14:35	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23 10:05
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-12-Mn-LDH-BUF-DUP
Lab Code: K2304319-008

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	0.5 J	ug/L	2.0	0.3	1	04/19/23 14:37	04/14/23	
Lithium	200.8	1.38	ug/L	0.20	0.10	1	04/19/23 14:37	04/14/23	
Manganese	200.8	197000	ug/L	20	4	100	04/19/23 17:23	04/14/23	
Molybdenum	200.8	12.3	ug/L	0.10	0.03	1	04/19/23 14:37	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23 10:10
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-12-Mn-Fe-LDH-BUF
Lab Code: K2304319-009

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	1.5 J	ug/L	2.0	0.3	1	04/19/23 14:39	04/14/23	
Lithium	200.8	2.96	ug/L	0.20	0.10	1	04/19/23 14:39	04/14/23	
Manganese	200.8	102000	ug/L	20	4	100	04/19/23 17:24	04/14/23	
Molybdenum	200.8	8.65	ug/L	0.10	0.03	1	04/19/23 14:39	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-12-Mn-LDH
Lab Code: K2304319-010

Service Request: K2304319
Date Collected: 04/12/23 10:15
Date Received: 04/13/23 13:00
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	0.8 J	ug/L	2.0	0.3	1	04/19/23 14:40	04/14/23	
Lithium	200.8	0.61	ug/L	0.20	0.10	1	04/19/23 14:40	04/14/23	
Manganese	200.8	130000	ug/L	20	4	100	04/19/23 17:26	04/14/23	
Molybdenum	200.8	9.71	ug/L	0.10	0.03	1	04/19/23 14:40	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23 10:20
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-12-Mn-Fe-LDH
Lab Code: K2304319-011

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	2.5	ug/L	2.0	0.3	1	04/19/23 14:42	04/14/23	
Lithium	200.8	0.89	ug/L	0.20	0.10	1	04/19/23 14:42	04/14/23	
Manganese	200.8	65500	ug/L	20	4	100	04/19/23 17:27	04/14/23	
Molybdenum	200.8	9.10	ug/L	0.10	0.03	1	04/19/23 14:42	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-12-CTRL
Lab Code: K2304319-012

Service Request: K2304319
Date Collected: 04/12/23 10:25
Date Received: 04/13/23 13:00
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	200.8	1.3 J	ug/L	2.0	0.3	1	04/19/23 14:44	04/14/23	
Lithium	200.8	142	ug/L	0.20	0.10	1	04/19/23 14:44	04/14/23	
Manganese	200.8	527	ug/L	0.20	0.04	1	04/19/23 17:02	04/14/23	
Molybdenum	200.8	674	ug/L	0.10	0.03	1	04/19/23 14:44	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MB
Lab Code: K2304319-013

Service Request: K2304319
Date Collected: 04/12/23 10:30
Date Received: 04/13/23 13:00
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 14:45	04/14/23	
Cobalt	200.8	0.014 J	ug/L	0.020	0.009	1	04/19/23 14:45	04/14/23	
Iron	200.8	5.9	ug/L	2.0	0.3	1	04/19/23 14:45	04/14/23	
Lithium	200.8	0.33	ug/L	0.20	0.10	1	04/19/23 14:45	04/14/23	
Manganese	200.8	0.63	ug/L	0.20	0.04	1	04/19/23 17:01	04/14/23	
Molybdenum	200.8	0.47	ug/L	0.10	0.03	1	04/19/23 14:45	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/04/23 10:00
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-3D-ARSENIC-SPIKE
Lab Code: K2304319-014

Basis: NA

Dissolved Metals

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Arsenic	200.8	203	ug/L	0.50	0.09	1	04/19/23 14:47	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/05/23 10:00
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-6V-ARSENIC-SPIKE
Lab Code: K2304319-015

Basis: NA

Dissolved Metals

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Arsenic	200.8	211	ug/L	0.50	0.09	1	04/19/23 15:00	04/14/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/05/23 10:05
Date Received: 04/13/23 13:00

Sample Name: MR-AP-OBT-MW-4V-COBALT-SPIKE
Lab Code: K2304319-016

Basis: NA

Dissolved Metals

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Cobalt	200.8	50.9	ug/L	0.020	0.009	1	04/19/23 15:02	04/14/23	



QC Summary Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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Metals

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1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2306754-01

Service Request: K2304319
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	04/19/23 13:50	04/14/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	04/19/23 13:50	04/14/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	04/19/23 13:50	04/14/23	
Lithium	200.8	ND U	ug/L	0.20	0.10	1	04/19/23 13:50	04/14/23	
Manganese	200.8	ND U	ug/L	0.20	0.04	1	04/19/23 16:58	04/14/23	
Molybdenum	200.8	ND U	ug/L	0.10	0.03	1	04/19/23 13:50	04/14/23	

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23
Date Received: 04/13/23
Date Analyzed: 04/19/23
Date Extracted: 04/14/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF
Lab Code: K2304319-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2306754-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	ND U	48.2	50.0	96	70-130
Cobalt	0.041	23.6	25.0	94	70-130
Iron	1.0 J	50.2	50.0	98	70-130
Lithium	1.58	54.4	50.0	106	70-130
Manganese	230000	229000	25	-7335 #	70-130
Molybdenum	12.5	38.4	25.0	103	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23
Date Received: 04/13/23
Date Analyzed: 04/19/23
Date Extracted: 04/14/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP
Lab Code: K2304319-002
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2306754-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	ND U	47.7	50.0	95	70-130
Cobalt	0.041	23.2	25.0	93	70-130
Iron	0.4 J	50.4	50.0	100	70-130
Lithium	2.10	56.9	50.0	110	70-130
Manganese	228000	224000	25	-15629 #	70-130
Molybdenum	11.8	37.3	25.0	102	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23
Date Received: 04/13/23
Date Analyzed: 04/19/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF
Lab Code: K2304319-001

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
					KQ2306754-04 Result			
Arsenic	200.8	0.50	0.09	ND U	ND U	ND	-	20
Cobalt	200.8	0.020	0.009	0.041	0.035	0.038	16	20
Iron	200.8	2.0	0.3	1.0 J	ND U	NC	NC	20
Lithium	200.8	0.20	0.10	1.58	1.76	1.67	11	20
Manganese	200.8	20	4	230000	229000	230000	<1	20
Molybdenum	200.8	0.10	0.03	12.5	12.4	12.5	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Collected: 04/12/23
Date Received: 04/13/23
Date Analyzed: 04/19/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP
Lab Code: K2304319-002

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
					KQ2306754-06 Result			
Arsenic	200.8	0.50	0.09	ND U	ND U	ND	-	20
Cobalt	200.8	0.020	0.009	0.041	0.024	0.033	52 #	20
Iron	200.8	2.0	0.3	0.4 J	0.6 J	0.5	40 #	20
Lithium	200.8	0.20	0.10	2.10	2.11	2.11	<1	20
Manganese	200.8	20	4	228000	225000	227000	1	20
Molybdenum	200.8	0.10	0.03	11.8	11.9	11.9	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2304319
Date Analyzed: 04/19/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2306754-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	48.9	50.0	98	85-115
Cobalt	200.8	24.9	25.0	100	85-115
Iron	200.8	49.3	50.0	99	85-115
Lithium	200.8	49.8	50.0	100	85-115
Manganese	200.8	24.7	25.0	99	85-115
Molybdenum	200.8	25.5	25.0	102	85-115



June 13, 2023

Service Request No:K2305976

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory May 25, 2023
For your reference, these analyses have been assigned our service request number **K2305976**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2305976
Date Received: 05/25/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Ten water samples were received for analysis at ALS Environmental on 05/25/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____

Date 06/13/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-F1	Lab ID: K2305976-005
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.5	J	0.5	2.5	ug/L	200.8
Lithium, Dissolved	4.66		0.50	0.50	ug/L	200.8
Molybdenum, Dissolved	15.9		0.15	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F1	Lab ID: K2305976-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.5	J	0.5	2.5	ug/L	200.8
Lithium, Dissolved	5.50		0.50	0.50	ug/L	200.8
Molybdenum, Dissolved	17.7		0.15	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F1	Lab ID: K2305976-007
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.6	J	0.5	2.5	ug/L	200.8
Lithium, Dissolved	11.7		0.50	0.50	ug/L	200.8
Molybdenum, Dissolved	14.3		0.15	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-F1	Lab ID: K2305976-008
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.6	J	0.5	2.5	ug/L	200.8
Lithium, Dissolved	1.94		0.50	0.50	ug/L	200.8
Molybdenum, Dissolved	8.82		0.15	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH-F1	Lab ID: K2305976-009
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.8	J	0.5	2.5	ug/L	200.8
Lithium, Dissolved	4.89		0.50	0.50	ug/L	200.8
Molybdenum, Dissolved	11.0		0.15	0.50	ug/L	200.8

CLIENT ID: GS-MR-AP-OBT-SSE-MB-F1	Lab ID: K2305976-010
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.6		0.5	2.5	ug/L	200.8
Cobalt, Dissolved	0.31		0.05	0.10	ug/L	200.8
Lithium, Dissolved	1.70		0.50	0.50	ug/L	200.8
Molybdenum, Dissolved	168		0.15	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH-BUF-F1	Lab ID: K2305976-001
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	1.34		0.05	0.10	ug/L	200.8
Lithium, Dissolved	3.65		0.50	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F1	Lab ID: K2305976-002
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	2.99		0.05	0.10	ug/L	200.8
Lithium, Dissolved	10.3		0.50	0.50	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F1			Lab ID: K2305976-002			
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Analyte	Results	Flag	MDL	MRL	Units	Method
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CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH-F1			Lab ID: K2305976-003			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	2.63		0.05	0.10	ug/L	200.8
Lithium, Dissolved	1.77		0.50	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-F1			Lab ID: K2305976-004			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	6.14		0.05	0.10	ug/L	200.8
Lithium, Dissolved	9.04		0.50	0.50	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request:K2305976

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2305976-001	MR-AP-OBT-MW-2-Mn-LDH-BUF-F1	5/15/2023	1700
K2305976-002	MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F1	5/15/2023	1705
K2305976-003	MR-AP-OBT-MW-2-Mn-LDH-F1	5/15/2023	1710
K2305976-004	MR-AP-OBT-MW-2-Mn-Fe-LDH-F1	5/15/2023	1715
K2305976-005	MR-AP-OBT-MW-10-Mn-LDH-BUF-F1	5/15/2023	1720
K2305976-006	MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F1	5/15/2023	1725
K2305976-007	MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F1	5/15/2023	1730
K2305976-008	MR-AP-OBT-MW-10-Mn-LDH-F1	5/15/2023	1735
K2305976-009	MR-AP-OBT-MW-10-Mn-Fe-LDH-F1	5/15/2023	1740
K2305976-010	GS-MR-AP-OBT-SSE-MB-F1	5/15/2023	1745

PM Blank

Cooler Receipt and Preservation Form

Client Anchor Service Request K23 05976
Received: 5/25/23 Opened: 5/25/23 By: VM Unloaded: 5/25/23 By: VM

- 1. Samples were received via? **USPS** Fed Ex **UPS** **DHL** **PDX** **Courier** **Hand Delivered**
- 2. Samples were received in: (circle) Cooler **Box** **Envelope** **Other** NA
- 3. Were custody seals on coolers? **NA** **Y** N If yes, how many and where? _____
If present, were custody seals intact? **Y** **N** If present, were they signed and dated? **Y** **N**

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>3.3</u>		<u>IR01</u>	<u>Cooler 1</u>			<u>772246558027</u>	
	<u>4.9</u>	<u>IR01</u>	<u>Cooler 2</u>			<u>772246558141</u>	

- 4. Was a Temperature Blank present in cooler? **NA** Y N If yes, notate the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges? **NA** Y **N**
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA **Y** **N**

If applicable, tissue samples were received: **Frozen** **Partially Thawed** **Thawed**

- 6. Packing material: **Inserts** Baggies **Bubble Wrap** **Gel Packs** Wet Ice **Dry Ice** **Sleeves** _____
- 7. Were custody papers properly filled out (ink, signed, etc.)? **NA** Y **N**
- 8. Were samples received in good condition (unbroken) **NA** Y **N**
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? **NA** Y **N**
- 10. Did all sample labels and tags agree with custody papers? **NA** Y **N**
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? **NA** Y **N**
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA **Y** **N**
- 13. Were VOA vials received without headspace? Indicate in the table below. NA **Y** **N**
- 14. Was C12/Res negative? NA **Y** **N**
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA **Y** **N**
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA **Y** **N** Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Dilute pH due to limited volume



Miscellaneous Forms

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www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2305976

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F1
Lab Code: K2305976-001
Sample Matrix: Water

Date Collected: 05/15/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-
Lab Code: K2305976-002
Sample Matrix: Water

Date Collected: 05/15/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-F1
Lab Code: K2305976-003
Sample Matrix: Water

Date Collected: 05/15/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-F1
Lab Code: K2305976-004
Sample Matrix: Water

Date Collected: 05/15/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-F1
Lab Code: K2305976-005
Sample Matrix: Water

Date Collected: 05/15/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2305976

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-
Lab Code: K2305976-006
Sample Matrix: Water

Date Collected: 05/15/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-
Lab Code: K2305976-007
Sample Matrix: Water

Date Collected: 05/15/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-F1
Lab Code: K2305976-008
Sample Matrix: Water

Date Collected: 05/15/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-F1
Lab Code: K2305976-009
Sample Matrix: Water

Date Collected: 05/15/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: GS-MR-AP-OBT-SSE-MB-F1
Lab Code: K2305976-010
Sample Matrix: Water

Date Collected: 05/15/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN



Sample Results

ALS Environmental—Kelso Laboratory
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Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
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Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Collected: 05/15/23 17:00
Date Received: 05/25/23 10:10

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F1
Lab Code: K2305976-001

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	1.34	ug/L	0.10	0.05	1	06/12/23 11:22	06/01/23	
Lithium	200.8	3.65	ug/L	0.50	0.50	1	06/12/23 11:22	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F1
Lab Code: K2305976-002

Service Request: K2305976
Date Collected: 05/15/23 17:05
Date Received: 05/25/23 10:10
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	2.99	ug/L	0.10	0.05	1	06/12/23 11:27	06/01/23	
Lithium	200.8	10.3	ug/L	0.50	0.50	1	06/12/23 11:27	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Collected: 05/15/23 17:10
Date Received: 05/25/23 10:10

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-F1
Lab Code: K2305976-003

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	2.63	ug/L	0.10	0.05	1	06/12/23 11:28	06/01/23	
Lithium	200.8	1.77	ug/L	0.50	0.50	1	06/12/23 11:28	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Collected: 05/15/23 17:15
Date Received: 05/25/23 10:10

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-F1
Lab Code: K2305976-004

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	6.14	ug/L	0.10	0.05	1	06/12/23 11:30	06/01/23	
Lithium	200.8	9.04	ug/L	0.50	0.50	1	06/12/23 11:30	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Collected: 05/15/23 17:20
Date Received: 05/25/23 10:10

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-F1
Lab Code: K2305976-005

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.5 J	ug/L	2.5	0.5	1	06/12/23 11:32	06/01/23	
Lithium	200.8	4.66	ug/L	0.50	0.50	1	06/12/23 11:32	06/01/23	
Molybdenum	200.8	15.9	ug/L	0.50	0.15	1	06/12/23 11:32	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Collected: 05/15/23 17:25
Date Received: 05/25/23 10:10

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F1
Lab Code: K2305976-006

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.5 J	ug/L	2.5	0.5	1	06/12/23 12:08	06/01/23	
Lithium	200.8	5.50	ug/L	0.50	0.50	1	06/12/23 12:08	06/01/23	
Molybdenum	200.8	17.7	ug/L	0.50	0.15	1	06/12/23 12:08	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Collected: 05/15/23 17:30
Date Received: 05/25/23 10:10

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F1
Lab Code: K2305976-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.6 J	ug/L	2.5	0.5	1	06/12/23 12:10	06/01/23	
Lithium	200.8	11.7	ug/L	0.50	0.50	1	06/12/23 12:10	06/01/23	
Molybdenum	200.8	14.3	ug/L	0.50	0.15	1	06/12/23 12:10	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Collected: 05/15/23 17:35
Date Received: 05/25/23 10:10

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-F1
Lab Code: K2305976-008

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.6 J	ug/L	2.5	0.5	1	06/12/23 12:11	06/01/23	
Lithium	200.8	1.94	ug/L	0.50	0.50	1	06/12/23 12:11	06/01/23	
Molybdenum	200.8	8.82	ug/L	0.50	0.15	1	06/12/23 12:11	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Collected: 05/15/23 17:40
Date Received: 05/25/23 10:10

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-F1
Lab Code: K2305976-009

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.8 J	ug/L	2.5	0.5	1	06/12/23 12:13	06/01/23	
Lithium	200.8	4.89	ug/L	0.50	0.50	1	06/12/23 12:13	06/01/23	
Molybdenum	200.8	11.0	ug/L	0.50	0.15	1	06/12/23 12:13	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: GS-MR-AP-OBT-SSE-MB-F1
Lab Code: K2305976-010

Service Request: K2305976
Date Collected: 05/15/23 17:45
Date Received: 05/25/23 10:10
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	2.6	ug/L	2.5	0.5	1	06/12/23 12:15	06/01/23	
Cobalt	200.8	0.31	ug/L	0.10	0.05	1	06/12/23 12:15	06/01/23	
Lithium	200.8	1.70	ug/L	0.50	0.50	1	06/12/23 12:15	06/01/23	
Molybdenum	200.8	168	ug/L	0.50	0.15	1	06/12/23 12:15	06/01/23	



QC Summary Forms

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1317 South 13th Avenue, Kelso, WA 98626
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Metals

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1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2309615-01

Service Request: K2305976
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	06/12/23 10:50	06/01/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	06/12/23 10:50	06/01/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	06/12/23 10:50	06/01/23	
Molybdenum	200.8	ND U	ug/L	0.10	0.03	1	06/12/23 10:50	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Collected: 05/15/23
Date Received: 05/25/23
Date Analyzed: 06/12/23
Date Extracted: 06/1/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F1
Lab Code: K2305976-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2309615-06

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	0.6 J	258	250	103	70-130
Cobalt	1.34	119	125	94	70-130
Lithium	3.65	234	250	92	70-130
Molybdenum	1.21	141	125	112	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Collected: 05/15/23
Date Received: 05/25/23
Date Analyzed: 06/12/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F1
Lab Code: K2305976-001

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2309615-05 Result, Average, RPD, RPD Limit. Rows include Arsenic, Cobalt, Lithium, and Molybdenum.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305976
Date Analyzed: 06/12/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2309615-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	50.5	50.0	101	85-115
Cobalt	200.8	25.8	25.0	103	85-115
Lithium	200.8	49.4	50.0	99	85-115
Molybdenum	200.8	26.1	25.0	104	85-115



June 13, 2023

Service Request No:K2305980

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory May 25, 2023
For your reference, these analyses have been assigned our service request number **K2305980**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2305980
Date Received: 05/25/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Ten water samples were received for analysis at ALS Environmental on 05/25/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____

Date 06/13/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-F2	Lab ID: K2305980-005
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	28.0		0.5	2.5	ug/L	200.8
Lithium, Dissolved	171		0.5	1.0	ug/L	200.8
Molybdenum, Dissolved	159		0.15	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F2	Lab ID: K2305980-006
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	30.1		0.5	2.5	ug/L	200.8
Lithium, Dissolved	158		0.5	1.0	ug/L	200.8
Molybdenum, Dissolved	156		0.15	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F2	Lab ID: K2305980-007
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	25.7		0.5	2.5	ug/L	200.8
Lithium, Dissolved	212		0.5	1.0	ug/L	200.8
Molybdenum, Dissolved	166		0.15	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-F2	Lab ID: K2305980-008
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	23.8		0.5	2.5	ug/L	200.8
Lithium, Dissolved	19.9		0.5	1.0	ug/L	200.8
Molybdenum, Dissolved	168		0.15	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH-F2	Lab ID: K2305980-009
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	20.2		0.5	2.5	ug/L	200.8
Lithium, Dissolved	53.4		0.5	1.0	ug/L	200.8
Molybdenum, Dissolved	153		0.15	0.50	ug/L	200.8

CLIENT ID: GS-MR-AP-OBT-SSE-MB-F2	Lab ID: K2305980-010
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	4.1		0.5	2.5	ug/L	200.8
Cobalt, Dissolved	0.05	J	0.05	0.10	ug/L	200.8
Molybdenum, Dissolved	34.6		0.15	0.50	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH-BUF-F2	Lab ID: K2305980-001
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.17		0.05	0.10	ug/L	200.8
Lithium, Dissolved	107		0.5	1.0	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F2	Lab ID: K2305980-002
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.10		0.05	0.10	ug/L	200.8
Lithium, Dissolved	177		0.5	1.0	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH-F2			Lab ID: K2305980-003			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.58		0.05	0.10	ug/L	200.8
Lithium, Dissolved	15.8		0.5	1.0	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-F2			Lab ID: K2305980-004			
---	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.36		0.05	0.10	ug/L	200.8
Lithium, Dissolved	73.3		0.5	1.0	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request:K2305980

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2305980-001	MR-AP-OBT-MW-2-Mn-LDH-BUF-F2	5/17/2023	1700
K2305980-002	MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F2	5/17/2023	1705
K2305980-003	MR-AP-OBT-MW-2-Mn-LDH-F2	5/17/2023	1710
K2305980-004	MR-AP-OBT-MW-2-Mn-Fe-LDH-F2	5/17/2023	1715
K2305980-005	MR-AP-OBT-MW-10-Mn-LDH-BUF-F2	5/17/2023	1720
K2305980-006	MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F2	5/17/2023	1725
K2305980-007	MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F2	5/17/2023	1730
K2305980-008	MR-AP-OBT-MW-10-Mn-LDH-F2	5/17/2023	1735
K2305980-009	MR-AP-OBT-MW-10-Mn-Fe-LDH-F2	5/17/2023	1740
K2305980-010	GS-MR-AP-OBT-SSE-MB-F2	5/17/2023	1745

PM Mack

Cooler Receipt and Preservation Form

Client AnChox Service Request K23 05980
Received: 5/25/23 Opened: 5/25/23 By: VM Unloaded: 5/25/23 By: VM

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
3.3		IR01	Cooler 1			772246558027	
	4.9	IR01	Cooler 2			772246558141	

- 4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N
- If applicable, tissue samples were received: Frozen Partially Thawed Thawed
- 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Dichl ph due to limited volume



Miscellaneous Forms

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Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2305980

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F2
Lab Code: K2305980-001
Sample Matrix: Water

Date Collected: 05/17/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-
Lab Code: K2305980-002
Sample Matrix: Water

Date Collected: 05/17/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-F2
Lab Code: K2305980-003
Sample Matrix: Water

Date Collected: 05/17/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-F2
Lab Code: K2305980-004
Sample Matrix: Water

Date Collected: 05/17/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-F2
Lab Code: K2305980-005
Sample Matrix: Water

Date Collected: 05/17/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2305980

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-
Lab Code: K2305980-006
Sample Matrix: Water

Date Collected: 05/17/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-
Lab Code: K2305980-007
Sample Matrix: Water

Date Collected: 05/17/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-F2
Lab Code: K2305980-008
Sample Matrix: Water

Date Collected: 05/17/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-F2
Lab Code: K2305980-009
Sample Matrix: Water

Date Collected: 05/17/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: GS-MR-AP-OBT-SSE-MB-F2
Lab Code: K2305980-010
Sample Matrix: Water

Date Collected: 05/17/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN



Sample Results

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ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F2
Lab Code: K2305980-001

Service Request: K2305980
Date Collected: 05/17/23 17:00
Date Received: 05/25/23 10:15
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.17	ug/L	0.10	0.05	1	06/12/23 13:41	06/01/23	
Lithium	200.8	107	ug/L	1.0	0.5	1	06/12/23 13:41	06/01/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Collected: 05/17/23 17:05
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F2
Lab Code: K2305980-002

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.10	ug/L	0.10	0.05	1	06/12/23 13:46	06/01/23	
Lithium	200.8	177	ug/L	1.0	0.5	1	06/12/23 13:46	06/01/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Collected: 05/17/23 17:10
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-F2
Lab Code: K2305980-003

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.58	ug/L	0.10	0.05	1	06/12/23 13:48	06/01/23	
Lithium	200.8	15.8	ug/L	1.0	0.5	1	06/12/23 13:48	06/01/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Collected: 05/17/23 17:15
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-F2
Lab Code: K2305980-004

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	0.36	ug/L	0.10	0.05	1	06/12/23 13:49	06/01/23	
Lithium	200.8	73.3	ug/L	1.0	0.5	1	06/12/23 13:49	06/01/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Collected: 05/17/23 17:20
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-F2
Lab Code: K2305980-005

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	28.0	ug/L	2.5	0.5	1	06/12/23 13:51	06/01/23	
Lithium	200.8	171	ug/L	1.0	0.5	1	06/12/23 13:51	06/01/23	
Molybdenum	200.8	159	ug/L	0.50	0.15	1	06/12/23 13:51	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Collected: 05/17/23 17:25
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F2
Lab Code: K2305980-006

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	30.1	ug/L	2.5	0.5	1	06/12/23 14:01	06/01/23	
Lithium	200.8	158	ug/L	1.0	0.5	1	06/12/23 14:01	06/01/23	
Molybdenum	200.8	156	ug/L	0.50	0.15	1	06/12/23 14:01	06/01/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Collected: 05/17/23 17:30
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F2
Lab Code: K2305980-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	25.7	ug/L	2.5	0.5	1	06/12/23 14:03	06/01/23	
Lithium	200.8	212	ug/L	1.0	0.5	1	06/12/23 14:03	06/01/23	
Molybdenum	200.8	166	ug/L	0.50	0.15	1	06/12/23 14:03	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Collected: 05/17/23 17:35
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-F2
Lab Code: K2305980-008

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	23.8	ug/L	2.5	0.5	1	06/12/23 14:05	06/01/23	
Lithium	200.8	19.9	ug/L	1.0	0.5	1	06/12/23 14:05	06/01/23	
Molybdenum	200.8	168	ug/L	0.50	0.15	1	06/12/23 14:05	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Collected: 05/17/23 17:40
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-F2
Lab Code: K2305980-009

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	20.2	ug/L	2.5	0.5	1	06/12/23 14:06	06/01/23	
Lithium	200.8	53.4	ug/L	1.0	0.5	1	06/12/23 14:06	06/01/23	
Molybdenum	200.8	153	ug/L	0.50	0.15	1	06/12/23 14:06	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: GS-MR-AP-OBT-SSE-MB-F2
Lab Code: K2305980-010

Service Request: K2305980
Date Collected: 05/17/23 17:45
Date Received: 05/25/23 10:15
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	4.1	ug/L	2.5	0.5	1	06/12/23 14:08	06/01/23	
Cobalt	200.8	0.05 J	ug/L	0.10	0.05	1	06/12/23 14:08	06/01/23	
Lithium	200.8	ND U	ug/L	1.0	0.5	1	06/12/23 14:08	06/01/23	
Molybdenum	200.8	34.6	ug/L	0.50	0.15	1	06/12/23 14:08	06/01/23	



QC Summary Forms

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dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2309616-01

Service Request: K2305980
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	06/12/23 13:15	06/01/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	06/12/23 13:15	06/01/23	
Lithium	200.8	ND U	ug/L	0.20	0.10	1	06/12/23 13:15	06/01/23	
Molybdenum	200.8	ND U	ug/L	0.10	0.03	1	06/12/23 13:15	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Collected: 05/17/23
Date Received: 05/25/23
Date Analyzed: 06/12/23
Date Extracted: 06/1/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F2
Lab Code: K2305980-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2309616-06

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	4.9	282	250	111	70-130
Cobalt	0.17	132	125	105	70-130
Lithium	107	410	250	121	70-130
Molybdenum	16.3	166	125	119	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Collected: 05/17/23
Date Received: 05/25/23
Date Analyzed: 06/12/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F2
Lab Code: K2305980-001

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2309616-05 Result, Average, RPD, RPD Limit. Rows include Arsenic, Cobalt, Lithium, and Molybdenum.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305980
Date Analyzed: 06/12/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2309616-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	200.8	50.3	50.0	101	85-115
Cobalt	200.8	25.6	25.0	102	85-115
Lithium	200.8	51.8	50.0	104	85-115
Molybdenum	200.8	26.8	25.0	107	85-115



June 14, 2023

Service Request No:K2305985

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory May 25, 2023
For your reference, these analyses have been assigned our service request number **K2305985**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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Narrative Documents

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Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2305985
Date Received: 05/25/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Ten water samples were received for analysis at ALS Environmental on 05/25/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Noel D. O'Connell

Approved by _____

Date 06/14/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH-BUF-F3	Lab ID: K2305985-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	76.0		0.5	4.0	ug/L	200.8
Cobalt, Dissolved	45.4		0.009	0.020	ug/L	200.8
Iron, Dissolved	22.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	196		0.10	0.20	ug/L	200.8
Manganese, Dissolved	756000		400	6000	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F3	Lab ID: K2305985-002
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	46.2		0.5	4.0	ug/L	200.8
Cobalt, Dissolved	41.2		0.009	0.020	ug/L	200.8
Iron, Dissolved	24.8		0.3	2.0	ug/L	200.8
Lithium, Dissolved	186		0.10	0.20	ug/L	200.8
Manganese, Dissolved	371000		400	6000	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH-F3	Lab ID: K2305985-003
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	81.1		0.5	4.0	ug/L	200.8
Cobalt, Dissolved	23.5		0.009	0.020	ug/L	200.8
Iron, Dissolved	6.7		0.3	2.0	ug/L	200.8
Lithium, Dissolved	192		0.10	0.20	ug/L	200.8
Manganese, Dissolved	358000		400	6000	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-F3	Lab ID: K2305985-004
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	75.5		0.5	4.0	ug/L	200.8
Cobalt, Dissolved	27.7		0.009	0.020	ug/L	200.8
Iron, Dissolved	24.1		0.3	2.0	ug/L	200.8
Lithium, Dissolved	158		0.10	0.20	ug/L	200.8
Manganese, Dissolved	319000		400	6000	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-F3	Lab ID: K2305985-005
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	209		0.5	4.0	ug/L	200.8
Arsenic, Dissolved	12.6		0.09	0.50	ug/L	200.8
Iron, Dissolved	1.3	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	266		0.10	0.20	ug/L	200.8
Manganese, Dissolved	691000		400	6000	ug/L	200.8
Molybdenum, Dissolved	455		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F3	Lab ID: K2305985-006
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	276		0.5	4.0	ug/L	200.8
Arsenic, Dissolved	12.9		0.09	0.50	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F3 Lab ID: K2305985-006

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	2.3		0.3	2.0	ug/L	200.8
Lithium, Dissolved	272		0.10	0.20	ug/L	200.8
Manganese, Dissolved	583000		400	6000	ug/L	200.8
Molybdenum, Dissolved	375		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F3 Lab ID: K2305985-007

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	66.4		0.5	4.0	ug/L	200.8
Arsenic, Dissolved	8.83		0.09	0.50	ug/L	200.8
Iron, Dissolved	42.3		0.3	2.0	ug/L	200.8
Lithium, Dissolved	214		0.10	0.20	ug/L	200.8
Manganese, Dissolved	494000		400	6000	ug/L	200.8
Molybdenum, Dissolved	206		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-F3 Lab ID: K2305985-008

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	102		0.5	4.0	ug/L	200.8
Arsenic, Dissolved	8.55		0.09	0.50	ug/L	200.8
Iron, Dissolved	1.2	J	0.3	2.0	ug/L	200.8
Lithium, Dissolved	212		0.10	0.20	ug/L	200.8
Manganese, Dissolved	605000		400	6000	ug/L	200.8
Molybdenum, Dissolved	255		0.03	0.10	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH-F3 Lab ID: K2305985-009

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	92.3		0.5	4.0	ug/L	200.8
Arsenic, Dissolved	5.38		0.09	0.50	ug/L	200.8
Iron, Dissolved	30.1		0.3	2.0	ug/L	200.8
Lithium, Dissolved	182		0.10	0.20	ug/L	200.8
Manganese, Dissolved	501000		400	6000	ug/L	200.8
Molybdenum, Dissolved	126		0.03	0.10	ug/L	200.8

CLIENT ID: GS-MR-AP-OBT-SSE-MB-F3 Lab ID: K2305985-010

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	91.3		0.5	4.0	ug/L	200.8
Cobalt, Dissolved	0.018	J	0.009	0.020	ug/L	200.8
Iron, Dissolved	43.8		0.3	2.0	ug/L	200.8
Lithium, Dissolved	0.35		0.10	0.20	ug/L	200.8
Manganese, Dissolved	11.9		0.04	0.60	ug/L	200.8
Molybdenum, Dissolved	0.08	J	0.03	0.10	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request:K2305985

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2305985-001	MR-AP-OBT-MW-2-Mn-LDH-BUF-F3	5/18/2023	1700
K2305985-002	MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F3	5/18/2023	1705
K2305985-003	MR-AP-OBT-MW-2-Mn-LDH-F3	5/18/2023	1710
K2305985-004	MR-AP-OBT-MW-2-Mn-Fe-LDH-F3	5/18/2023	1715
K2305985-005	MR-AP-OBT-MW-10-Mn-LDH-BUF-F3	5/18/2023	1720
K2305985-006	MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F3	5/18/2023	1725
K2305985-007	MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F3	5/18/2023	1730
K2305985-008	MR-AP-OBT-MW-10-Mn-LDH-F3	5/18/2023	1735
K2305985-009	MR-AP-OBT-MW-10-Mn-Fe-LDH-F3	5/18/2023	1740
K2305985-010	GS-MR-AP-OBT-SSE-MB-F3	5/18/2023	1745

PM Black

Cooler Receipt and Preservation Form

Client Anchor Service Request K23 05985
Received: 5/25/23 Opened: 5/25/23 By: VM Unloaded: 5/25/23 By: VM

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>3.3</u>		<u>IR01</u>	<u>Cooler 1</u>			<u>772246558027</u>	
	<u>4.9</u>	<u>IR01</u>	<u>Cooler 2</u>			<u>772246558141</u>	

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____

7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N

8. Were samples received in good condition (unbroken) NA Y N

9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N

10. Did all sample labels and tags agree with custody papers? NA Y N

11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N

12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N

13. Were VOA vials received without headspace? Indicate in the table below NA Y N

14. Was C12/Res negative? NA Y N

15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N

16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Dicht ph due to limited volume



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdwlabservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2305985

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F3
Lab Code: K2305985-001
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F3
Lab Code: K2305985-001.R01
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-
Lab Code: K2305985-002
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-
Lab Code: K2305985-002.R01
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-F3
Lab Code: K2305985-003
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2305985

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-F3
Lab Code: K2305985-003.R01
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-F3
Lab Code: K2305985-004
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-F3
Lab Code: K2305985-004.R01
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-F3
Lab Code: K2305985-005
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-F3
Lab Code: K2305985-005.R01
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2305985

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-
Lab Code: K2305985-006
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-
Lab Code: K2305985-006.R01
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-
Lab Code: K2305985-007
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-
Lab Code: K2305985-007.R01
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-F3
Lab Code: K2305985-008
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2305985

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-F3
Lab Code: K2305985-008.R01
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-F3
Lab Code: K2305985-009
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-F3
Lab Code: K2305985-009.R01
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: GS-MR-AP-OBT-SSE-MB-F3
Lab Code: K2305985-010
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN

Sample Name: GS-MR-AP-OBT-SSE-MB-F3
Lab Code: K2305985-010.R01
Sample Matrix: Water

Date Collected: 05/18/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUCH

Analyzed By
JCHAN



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23 17:00
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F3
Lab Code: K2305985-001

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	76.0	ug/L	4.0	0.5	1	06/12/23 14:55	06/01/23	
Cobalt	200.8	45.4	ug/L	0.020	0.009	1	06/12/23 14:55	06/01/23	
Iron	200.8	22.7	ug/L	2.0	0.3	1	06/12/23 14:55	06/01/23	
Lithium	200.8	196	ug/L	0.20	0.10	1	06/12/23 14:55	06/01/23	
Manganese	200.8	756000	ug/L	6000	400	10000	06/13/23 08:52	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23 17:05
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F3
Lab Code: K2305985-002

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	46.2	ug/L	4.0	0.5	1	06/12/23 14:59	06/01/23	
Cobalt	200.8	41.2	ug/L	0.020	0.009	1	06/12/23 14:59	06/01/23	
Iron	200.8	24.8	ug/L	2.0	0.3	1	06/12/23 14:59	06/01/23	
Lithium	200.8	186	ug/L	0.20	0.10	1	06/12/23 14:59	06/01/23	
Manganese	200.8	371000	ug/L	6000	400	10000	06/13/23 08:57	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23 17:10
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-F3
Lab Code: K2305985-003

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	81.1	ug/L	4.0	0.5	1	06/12/23 15:01	06/01/23	
Cobalt	200.8	23.5	ug/L	0.020	0.009	1	06/12/23 15:01	06/01/23	
Iron	200.8	6.7	ug/L	2.0	0.3	1	06/12/23 15:01	06/01/23	
Lithium	200.8	192	ug/L	0.20	0.10	1	06/12/23 15:01	06/01/23	
Manganese	200.8	358000	ug/L	6000	400	10000	06/13/23 08:59	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23 17:15
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-F3
Lab Code: K2305985-004

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	75.5	ug/L	4.0	0.5	1	06/12/23 15:03	06/01/23	
Cobalt	200.8	27.7	ug/L	0.020	0.009	1	06/12/23 15:03	06/01/23	
Iron	200.8	24.1	ug/L	2.0	0.3	1	06/12/23 15:03	06/01/23	
Lithium	200.8	158	ug/L	0.20	0.10	1	06/12/23 15:03	06/01/23	
Manganese	200.8	319000	ug/L	6000	400	10000	06/13/23 09:00	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23 17:20
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-F3
Lab Code: K2305985-005

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	209	ug/L	4.0	0.5	1	06/12/23 15:04	06/01/23	
Arsenic	200.8	12.6	ug/L	0.50	0.09	1	06/12/23 15:04	06/01/23	
Iron	200.8	1.3 J	ug/L	2.0	0.3	1	06/12/23 15:04	06/01/23	
Lithium	200.8	266	ug/L	0.20	0.10	1	06/12/23 15:04	06/01/23	
Manganese	200.8	691000	ug/L	6000	400	10000	06/13/23 09:02	06/01/23	
Molybdenum	200.8	455	ug/L	0.10	0.03	1	06/12/23 15:04	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23 17:25
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F3
Lab Code: K2305985-006

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	276	ug/L	4.0	0.5	1	06/12/23 15:16	06/01/23	
Arsenic	200.8	12.9	ug/L	0.50	0.09	1	06/12/23 15:16	06/01/23	
Iron	200.8	2.3	ug/L	2.0	0.3	1	06/12/23 15:16	06/01/23	
Lithium	200.8	272	ug/L	0.20	0.10	1	06/12/23 15:16	06/01/23	
Manganese	200.8	583000	ug/L	6000	400	10000	06/13/23 09:07	06/01/23	
Molybdenum	200.8	375	ug/L	0.10	0.03	1	06/12/23 15:16	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23 17:30
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F3
Lab Code: K2305985-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	66.4	ug/L	4.0	0.5	1	06/12/23 15:18	06/01/23	
Arsenic	200.8	8.83	ug/L	0.50	0.09	1	06/12/23 15:18	06/01/23	
Iron	200.8	42.3	ug/L	2.0	0.3	1	06/12/23 15:18	06/01/23	
Lithium	200.8	214	ug/L	0.20	0.10	1	06/12/23 15:18	06/01/23	
Manganese	200.8	494000	ug/L	6000	400	10000	06/13/23 09:08	06/01/23	
Molybdenum	200.8	206	ug/L	0.10	0.03	1	06/12/23 15:18	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23 17:35
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-F3
Lab Code: K2305985-008

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	102	ug/L	4.0	0.5	1	06/12/23 15:19	06/01/23	
Arsenic	200.8	8.55	ug/L	0.50	0.09	1	06/12/23 15:19	06/01/23	
Iron	200.8	1.2 J	ug/L	2.0	0.3	1	06/12/23 15:19	06/01/23	
Lithium	200.8	212	ug/L	0.20	0.10	1	06/12/23 15:19	06/01/23	
Manganese	200.8	605000	ug/L	6000	400	10000	06/13/23 09:10	06/01/23	
Molybdenum	200.8	255	ug/L	0.10	0.03	1	06/12/23 15:19	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23 17:40
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-F3
Lab Code: K2305985-009

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	92.3	ug/L	4.0	0.5	1	06/12/23 15:21	06/01/23	
Arsenic	200.8	5.38	ug/L	0.50	0.09	1	06/12/23 15:21	06/01/23	
Iron	200.8	30.1	ug/L	2.0	0.3	1	06/12/23 15:21	06/01/23	
Lithium	200.8	182	ug/L	0.20	0.10	1	06/12/23 15:21	06/01/23	
Manganese	200.8	501000	ug/L	6000	400	10000	06/13/23 09:12	06/01/23	
Molybdenum	200.8	126	ug/L	0.10	0.03	1	06/12/23 15:21	06/01/23	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: GS-MR-AP-OBT-SSE-MB-F3
Lab Code: K2305985-010

Service Request: K2305985
Date Collected: 05/18/23 17:45
Date Received: 05/25/23 10:15

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	91.3	ug/L	4.0	0.5	1	06/12/23 15:23	06/01/23	
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	06/12/23 15:23	06/01/23	
Cobalt	200.8	0.018 J	ug/L	0.020	0.009	1	06/12/23 15:23	06/01/23	
Iron	200.8	43.8	ug/L	2.0	0.3	1	06/12/23 15:23	06/01/23	
Lithium	200.8	0.35	ug/L	0.20	0.10	1	06/12/23 15:23	06/01/23	
Manganese	200.8	11.9	ug/L	0.60	0.04	1	06/13/23 09:13	06/01/23	
Molybdenum	200.8	0.08 J	ug/L	0.10	0.03	1	06/12/23 15:23	06/01/23	



QC Summary Forms

ALS Environmental—Kelso Laboratory
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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2309617-01

Service Request: K2305985
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	1.0 J	ug/L	4.0	0.5	1	06/12/23 14:13	06/01/23	
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	06/12/23 14:13	06/01/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	06/12/23 14:13	06/01/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	06/12/23 14:13	06/01/23	
Lithium	200.8	ND U	ug/L	0.20	0.10	1	06/12/23 14:13	06/01/23	
Manganese	200.8	ND U	ug/L	0.60	0.04	1	06/13/23 08:28	06/01/23	
Molybdenum	200.8	ND U	ug/L	0.10	0.03	1	06/12/23 14:13	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23
Date Received: 05/25/23
Date Analyzed: 06/12/23 - 06/13/23
Date Extracted: 06/1/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F3
Lab Code: K2305985-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2309617-06

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum	76.0	175	100	99	70-130
Arsenic	1.15	53.4	50.0	104	70-130
Cobalt	45.4	71.7	25.0	105	70-130
Iron	22.7	72.7	50.0	100	70-130
Lithium	196	244	50.0	95	70-130
Manganese	756000	512000	30	-976717 #	70-130
Molybdenum	18.0	48.4	25.0	121	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Collected: 05/18/23
Date Received: 05/25/23
Date Analyzed: 06/12/23 - 06/13/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F3
Lab Code: K2305985-001

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
					KQ2309617-05 Result			
Aluminum	200.8	4.0	0.5	76.0	76.9	76.5	1	20
Arsenic	200.8	0.50	0.09	1.15	1.20	1.18	4	20
Cobalt	200.8	0.020	0.009	45.4	45.0	45.2	<1	20
Iron	200.8	2.0	0.3	22.7	22.0	22.4	3	20
Lithium	200.8	0.20	0.10	196	195	196	<1	20
Manganese	200.8	6000	400	756000	674000	715000	11	20
Molybdenum	200.8	0.10	0.03	18.0	18.0	18.0	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305985
Date Analyzed: 06/12/23 - 06/13/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2309617-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum	200.8	98.3	100	98	85-115
Arsenic	200.8	49.0	50.0	98	85-115
Cobalt	200.8	25.5	25.0	102	85-115
Iron	200.8	49.3	50.0	99	85-115
Lithium	200.8	52.4	50.0	105	85-115
Manganese	200.8	24.1	25.0	96	85-115
Molybdenum	200.8	27.1	25.0	108	85-115



June 14, 2023

Service Request No:K2305986

Masa Kanematsu
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: Miller

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory May 25, 2023
For your reference, these analyses have been assigned our service request number **K2305986**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: Anchor QEA, LLC
Project: Miller
Sample Matrix: Water

Service Request: K2305986
Date Received: 05/25/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Ten water samples were received for analysis at ALS Environmental on 05/25/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Noel D. O'Connell

Approved by _____

Date 06/14/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH-BUF-F4	Lab ID: K2305986-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	342000		10	80	ug/L	200.8
Cobalt, Dissolved	28.5		0.18	0.40	ug/L	200.8
Iron, Dissolved	238000		6	40	ug/L	200.8
Lithium, Dissolved	6.0		2.0	2.0	ug/L	200.8
Manganese, Dissolved	882000		80	1200	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F4	Lab ID: K2305986-002
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	365000		10	80	ug/L	200.8
Cobalt, Dissolved	40.3		0.18	0.40	ug/L	200.8
Iron, Dissolved	808000		6	40	ug/L	200.8
Lithium, Dissolved	8.5		2.0	2.0	ug/L	200.8
Manganese, Dissolved	842000		80	1200	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-LDH-F4	Lab ID: K2305986-003
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	742000		10	80	ug/L	200.8
Cobalt, Dissolved	60.9		0.18	0.40	ug/L	200.8
Iron, Dissolved	257000		6	40	ug/L	200.8
Lithium, Dissolved	66.5		2.0	2.0	ug/L	200.8
Manganese, Dissolved	1390000		80	1200	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-2-Mn-Fe-LDH-F4	Lab ID: K2305986-004
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Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	566000		10	80	ug/L	200.8
Cobalt, Dissolved	34.2		0.18	0.40	ug/L	200.8
Iron, Dissolved	623000		6	40	ug/L	200.8
Lithium, Dissolved	12.1		2.0	2.0	ug/L	200.8
Manganese, Dissolved	686000		80	1200	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-F4	Lab ID: K2305986-005
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	373000		10	80	ug/L	200.8
Arsenic, Dissolved	7	J	2	10	ug/L	200.8
Iron, Dissolved	769		6	40	ug/L	200.8
Lithium, Dissolved	22.6		2.0	2.0	ug/L	200.8
Manganese, Dissolved	1190000		80	1200	ug/L	200.8
Molybdenum, Dissolved	734		0.6	2.0	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F4	Lab ID: K2305986-006
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	382000		10	80	ug/L	200.8
Arsenic, Dissolved	8	J	2	10	ug/L	200.8



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F4	Lab ID: K2305986-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	764		6	40	ug/L	200.8
Lithium, Dissolved	14.5		2.0	2.0	ug/L	200.8
Manganese, Dissolved	1140000		80	1200	ug/L	200.8
Molybdenum, Dissolved	795		0.6	2.0	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F4	Lab ID: K2305986-007
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	342000		10	80	ug/L	200.8
Arsenic, Dissolved	9	J	2	10	ug/L	200.8
Iron, Dissolved	514000		6	40	ug/L	200.8
Lithium, Dissolved	4.8		2.0	2.0	ug/L	200.8
Manganese, Dissolved	777000		80	1200	ug/L	200.8
Molybdenum, Dissolved	789		0.6	2.0	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-LDH-F4	Lab ID: K2305986-008
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	458000		10	80	ug/L	200.8
Arsenic, Dissolved	3	J	2	10	ug/L	200.8
Iron, Dissolved	522		6	40	ug/L	200.8
Lithium, Dissolved	6.5		2.0	2.0	ug/L	200.8
Manganese, Dissolved	646000		80	1200	ug/L	200.8
Molybdenum, Dissolved	525		0.6	2.0	ug/L	200.8

CLIENT ID: MR-AP-OBT-MW-10-Mn-Fe-LDH-F4	Lab ID: K2305986-009
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	480000		10	80	ug/L	200.8
Arsenic, Dissolved	8	J	2	10	ug/L	200.8
Iron, Dissolved	358000		6	40	ug/L	200.8
Lithium, Dissolved	5.0		2.0	2.0	ug/L	200.8
Manganese, Dissolved	413000		80	1200	ug/L	200.8
Molybdenum, Dissolved	595		0.6	2.0	ug/L	200.8

CLIENT ID: GS-MR-AP-OBT-SSE-MB-F4	Lab ID: K2305986-010
--	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Aluminum, Dissolved	253		10	80	ug/L	200.8
Iron, Dissolved	14	J	6	40	ug/L	200.8



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request:K2305986

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2305986-001	MR-AP-OBT-MW-2-Mn-LDH-BUF-F4	5/19/2023	1545
K2305986-002	MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F4	5/19/2023	1550
K2305986-003	MR-AP-OBT-MW-2-Mn-LDH-F4	5/19/2023	1555
K2305986-004	MR-AP-OBT-MW-2-Mn-Fe-LDH-F4	5/19/2023	1600
K2305986-005	MR-AP-OBT-MW-10-Mn-LDH-BUF-F4	5/19/2023	1605
K2305986-006	MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F4	5/19/2023	1610
K2305986-007	MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F4	5/19/2023	1615
K2305986-008	MR-AP-OBT-MW-10-Mn-LDH-F4	5/19/2023	1620
K2305986-009	MR-AP-OBT-MW-10-Mn-Fe-LDH-F4	5/19/2023	1625
K2305986-010	GS-MR-AP-OBT-SSE-MB-F4	5/19/2023	1630

PM Mark

Cooler Receipt and Preservation Form

Client AnChor Service Request K23 05986
Received: 5/25/23 Opened: 5/25/23 By: VM Unloaded: 5/25/23 By: VM

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with 'X'	PM Notified if out of temp	Tracking Number NA	Filed
<u>3.3</u>		<u>IR01</u>	<u>Cooler 1</u>			<u>772246558027</u>	
	<u>4.9</u>	<u>IR01</u>	<u>Cooler 2</u>			<u>772246558141</u>	

- 4. Was a Temperature Blank present in cooler? NA Y N If yes, note the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N
- If applicable, tissue samples were received: Frozen Partially Thawed Thawed
- 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves
- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Dilut pH due to limited volume



Miscellaneous Forms

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Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2305986

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F4
Lab Code: K2305986-001
Sample Matrix: Water

Date Collected: 05/19/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-
Lab Code: K2305986-002
Sample Matrix: Water

Date Collected: 05/19/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-F4
Lab Code: K2305986-003
Sample Matrix: Water

Date Collected: 05/19/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-F4
Lab Code: K2305986-004
Sample Matrix: Water

Date Collected: 05/19/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-F4
Lab Code: K2305986-005
Sample Matrix: Water

Date Collected: 05/19/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

ALS Group USA, Corp.
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Analyst Summary report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05

Service Request: K2305986

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-
Lab Code: K2305986-006
Sample Matrix: Water

Date Collected: 05/19/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-
Lab Code: K2305986-007
Sample Matrix: Water

Date Collected: 05/19/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-F4
Lab Code: K2305986-008
Sample Matrix: Water

Date Collected: 05/19/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-F4
Lab Code: K2305986-009
Sample Matrix: Water

Date Collected: 05/19/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
JCHAN

Sample Name: GS-MR-AP-OBT-SSE-MB-F4
Lab Code: K2305986-010
Sample Matrix: Water

Date Collected: 05/19/23
Date Received: 05/25/23

Analysis Method
200.8

Extracted/Digested By
ACOUC

Analyzed By
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Sample Results

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Metals

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23 15:45
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F4
Lab Code: K2305986-001

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	342000	ug/L	80	10	1	06/13/23 10:39	06/01/23	
Cobalt	200.8	28.5	ug/L	0.40	0.18	1	06/13/23 10:39	06/01/23	
Iron	200.8	238000	ug/L	40	6	1	06/13/23 10:39	06/01/23	
Lithium	200.8	6.0	ug/L	2.0	2.0	1	06/13/23 10:39	06/01/23	
Manganese	200.8	882000	ug/L	1200	80	100	06/13/23 09:43	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23 15:50
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-BUF-F4
Lab Code: K2305986-002

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	365000	ug/L	80	10	1	06/13/23 10:44	06/01/23	
Cobalt	200.8	40.3	ug/L	0.40	0.18	1	06/13/23 10:44	06/01/23	
Iron	200.8	808000	ug/L	40	6	1	06/13/23 10:44	06/01/23	
Lithium	200.8	8.5	ug/L	2.0	2.0	1	06/13/23 10:44	06/01/23	
Manganese	200.8	842000	ug/L	1200	80	100	06/13/23 09:48	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23 15:55
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-F4
Lab Code: K2305986-003

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	742000	ug/L	80	10	1	06/13/23 10:46	06/01/23	
Cobalt	200.8	60.9	ug/L	0.40	0.18	1	06/13/23 10:46	06/01/23	
Iron	200.8	257000	ug/L	40	6	1	06/13/23 10:46	06/01/23	
Lithium	200.8	66.5	ug/L	2.0	2.0	1	06/13/23 10:46	06/01/23	
Manganese	200.8	1390000	ug/L	1200	80	100	06/13/23 09:49	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23 16:00
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-2-Mn-Fe-LDH-F4
Lab Code: K2305986-004

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	566000	ug/L	80	10	1	06/13/23 10:47	06/01/23	
Cobalt	200.8	34.2	ug/L	0.40	0.18	1	06/13/23 10:47	06/01/23	
Iron	200.8	623000	ug/L	40	6	1	06/13/23 10:47	06/01/23	
Lithium	200.8	12.1	ug/L	2.0	2.0	1	06/13/23 10:47	06/01/23	
Manganese	200.8	686000	ug/L	1200	80	100	06/13/23 09:51	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23 16:05
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-F4
Lab Code: K2305986-005

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	373000	ug/L	80	10	1	06/13/23 10:49	06/01/23	
Arsenic	200.8	7 J	ug/L	10	2	1	06/13/23 10:49	06/01/23	
Iron	200.8	769	ug/L	40	6	1	06/13/23 10:49	06/01/23	
Lithium	200.8	22.6	ug/L	2.0	2.0	1	06/13/23 10:49	06/01/23	
Manganese	200.8	1190000	ug/L	1200	80	100	06/13/23 09:52	06/01/23	
Molybdenum	200.8	734	ug/L	2.0	0.6	1	06/13/23 10:49	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23 16:10
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-BUF-DUP-F4
Lab Code: K2305986-006

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	382000	ug/L	80	10	1	06/13/23 10:50	06/01/23	
Arsenic	200.8	8 J	ug/L	10	2	1	06/13/23 10:50	06/01/23	
Iron	200.8	764	ug/L	40	6	1	06/13/23 10:50	06/01/23	
Lithium	200.8	14.5	ug/L	2.0	2.0	1	06/13/23 10:50	06/01/23	
Manganese	200.8	1140000	ug/L	1200	80	100	06/13/23 10:03	06/01/23	
Molybdenum	200.8	795	ug/L	2.0	0.6	1	06/13/23 10:50	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23 16:15
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-BUF-F4
Lab Code: K2305986-007

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	342000	ug/L	80	10	1	06/13/23 10:52	06/01/23	
Arsenic	200.8	9 J	ug/L	10	2	1	06/13/23 10:52	06/01/23	
Iron	200.8	514000	ug/L	40	6	1	06/13/23 10:52	06/01/23	
Lithium	200.8	4.8	ug/L	2.0	2.0	1	06/13/23 10:52	06/01/23	
Manganese	200.8	777000	ug/L	1200	80	100	06/13/23 10:05	06/01/23	
Molybdenum	200.8	789	ug/L	2.0	0.6	1	06/13/23 10:52	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23 16:20
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-LDH-F4
Lab Code: K2305986-008

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	458000	ug/L	80	10	1	06/13/23 10:59	06/01/23	
Arsenic	200.8	3 J	ug/L	10	2	1	06/13/23 10:59	06/01/23	
Iron	200.8	522	ug/L	40	6	1	06/13/23 10:59	06/01/23	
Lithium	200.8	6.5	ug/L	2.0	2.0	1	06/13/23 10:59	06/01/23	
Manganese	200.8	646000	ug/L	1200	80	100	06/13/23 10:06	06/01/23	
Molybdenum	200.8	525	ug/L	2.0	0.6	1	06/13/23 10:59	06/01/23	

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23 16:25
Date Received: 05/25/23 10:15

Sample Name: MR-AP-OBT-MW-10-Mn-Fe-LDH-F4
Lab Code: K2305986-009

Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	480000	ug/L	80	10	1	06/13/23 11:01	06/01/23	
Arsenic	200.8	8 J	ug/L	10	2	1	06/13/23 11:01	06/01/23	
Iron	200.8	358000	ug/L	40	6	1	06/13/23 11:01	06/01/23	
Lithium	200.8	5.0	ug/L	2.0	2.0	1	06/13/23 11:01	06/01/23	
Manganese	200.8	413000	ug/L	1200	80	100	06/13/23 10:08	06/01/23	
Molybdenum	200.8	595	ug/L	2.0	0.6	1	06/13/23 11:01	06/01/23	

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dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: GS-MR-AP-OBT-SSE-MB-F4
Lab Code: K2305986-010

Service Request: K2305986
Date Collected: 05/19/23 16:30
Date Received: 05/25/23 10:15
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	253	ug/L	80	10	1	06/13/23 10:57	06/01/23	
Arsenic	200.8	ND U	ug/L	10	2	1	06/13/23 10:10	06/01/23	
Cobalt	200.8	ND U	ug/L	0.40	0.18	1	06/13/23 10:10	06/01/23	
Iron	200.8	14 J	ug/L	40	6	1	06/13/23 10:10	06/01/23	
Lithium	200.8	ND U	ug/L	2.0	2.0	1	06/13/23 10:57	06/01/23	
Manganese	200.8	ND U	ug/L	12	0.8	1	06/13/23 10:10	06/01/23	
Molybdenum	200.8	ND U	ug/L	2.0	0.6	1	06/13/23 10:10	06/01/23	



QC Summary Forms

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Metals

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Analytical Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: KQ2309618-01

Service Request: K2305986
Date Collected: NA
Date Received: NA
Basis: NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	200.8	1.2 J	ug/L	4.0	0.5	1	06/13/23 09:18	06/01/23	
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	06/13/23 09:18	06/01/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	06/13/23 09:18	06/01/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	06/13/23 09:18	06/01/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	06/13/23 09:18	06/01/23	
Manganese	200.8	0.44 J	ug/L	0.60	0.04	1	06/13/23 09:18	06/01/23	
Molybdenum	200.8	ND U	ug/L	0.10	0.03	1	06/13/23 09:18	06/01/23	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23
Date Received: 05/25/23
Date Analyzed: 06/13/23
Date Extracted: 06/1/23

Matrix Spike Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F4
Lab Code: K2305986-001
Analysis Method: 200.8
Prep Method: EPA CLP ILM04.0

Units: ug/L
Basis: NA

Matrix Spike
KQ2309618-06

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum	342000	337000	2000	-249 #	70-130
Arsenic	3 J	971	1000	97	70-130
Cobalt	28.5	537	500	102	70-130
Iron	238000	240000	1000	223 #	70-130
Lithium	6.0	965	1000	96	70-130
Manganese	882000	832000	500	-9874 #	70-130
Molybdenum	51.9	571	500	104	70-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Collected: 05/19/23
Date Received: 05/25/23
Date Analyzed: 06/13/23

Replicate Sample Summary
Dissolved Metals

Sample Name: MR-AP-OBT-MW-2-Mn-LDH-BUF-F4
Lab Code: K2305986-001

Units: ug/L
Basis: NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
					KQ2309618-05 Result			
Aluminum	200.8	80	10	342000	343000	343000	<1	20
Arsenic	200.8	10	2	3 J	2 J	3	40 #	20
Cobalt	200.8	0.40	0.18	28.5	29.5	29.0	3	20
Iron	200.8	40	6	238000	235000	237000	1	20
Lithium	200.8	2.0	2.0	6.0	5.4	5.7	11	20
Manganese	200.8	1200	80	882000	811000	847000	8	20
Molybdenum	200.8	2.0	0.6	51.9	54.2	53.1	4	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Miller/221114-07.01 Task 05
Sample Matrix: Water

Service Request: K2305986
Date Analyzed: 06/13/23

Lab Control Sample Summary
Dissolved Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2309618-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum	200.8	101	100	101	85-115
Arsenic	200.8	50.1	50.0	100	85-115
Cobalt	200.8	26.0	25.0	104	85-115
Iron	200.8	52.1	50.0	104	85-115
Lithium	200.8	50.6	50.0	101	85-115
Manganese	200.8	27.6	25.0	110	85-115
Molybdenum	200.8	25.9	25.0	104	85-115